INNOVATION • POWER • PERFORMANCE • RELIABILITY

Serving the classic British enthusiast since 1972 with high performance products and spares

nson

2022 Catalog

TIM JOYCE

1973 MAP Triumph 750cc WERA Champion and 5 time AHRMA Champion relies on M.A.P. Cycle high-performance parts to win!

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STOP!!! IMPORTANT!!! PLEASE READ.....

You have in your hands the latest *III.A.P. Cycle Enterprises. Inc.* Parts and Accessories Catalog into which have gone untold amounts of time to put together a list of over 22,000 part numbers, that will allow you easier access to our now over 12,000 sq. ft. warehouse of British Motorcycle Parts. By using the information supplied in this catalog and an original parts book, available at *III.A.P.* Cycle, you can order from the most frequently needed, to one of the most obscure of stock parts or specialty custom and performance items to get you back "in the wind". Each listings in this catalog was selected as an item most in demand, but others, especially the "**III.A.P.**" items, because of their high quality and proven high performace. When you buy from **III.A.P. Cycle Enterprises. Inc.** you can be assured you are buying the very best for your Triumph motorcycle. We make every effort to maintain a large inventory, however with the vast amounts of different items and worldwide demand from our distributors, we have little way to judge at any particular moment the demand that will be place on any particular item. This may result in our being out of stock on certain items from time to time. Please be patient. Feel free to phone with your requests. Many times parts are on the shelf for an assembly just not listed as complete for various reasons. Phone. fax or email for availability.

All of the parts in this catalog have been given either O.E.M. Part Numbers, Manufacturers Part Numbers (aftermarket parts) or **TT.T.P.** Part Numbers (parts made by or those produced for us). Please use these numbers whenever you place an order. All orders placed either by fax, post or telephone using these part numbers receive our immediate attention and will be processed usually within 24 hours. This *fast* service puts <u>you</u> back "on the road again" just as fast as possible.

Orders received without part numbers can delay processing by as much as a week to ten days. **WE WILL NO LONGER GUARANTEE CORRECT PARTS WITHOUT PROPER/CORRECT PART NUMBERS. INCORRECT PARTS ORDERED BY DESCRIPTION ONLY WILL BE SUBJECT TO A 20% RESTOCKING CHARGE.** To solve this possible problem and avoid unnecessary additional expense and time, we have reprinted the most of the original parts books in handy 5 x 8 hard copy (MAP8500 thru MAP8899). By using these parts catalogs, (the one for the *exact* year of Your bike) or for those who do not want a paper booklet, you may check our website for an "on-line" check you can now find the original part number (and location) for any part from the smallest washer to a complete frame. Most importantly, the Original part numbers avoid costly "wrong part" errors and their restocking charges. After locating a part number, phone, fax or check www.mapcycle.com to find out whether we carry the item and/or the **III.A.P.** Price. Remember, due to variations East, West, European, and U.S. Special Models, only original parts books, whether on microfiche or hard copy, are your only True source for exact/correct replacement part numbers. Therefore, **WE CANNOT BE RESPONSIBLE FOR ANY INCORRECT PART NUMBERS AS LISTED IN THIS CATALOG or PARTS BOOKS.**

For Prices or to Order "On-Line" visit www.mapcycle.com

For Cover Page info See Page 114

For "Terms & Conditions" See Page 116

HAPPY RIDING, The Staff, **III. II. P. Cycle Enterprises**, **Inc.** (Since 1972)



Why are T.R.P. Cycle Triumph Big-Bore Cylinder Kits the very best? Read for Yourself!

- 1. T.A.P. Billet Cylinder Kits are 100% CNC machined from billet 6061-T6 alloy making them stronger than any type of casting, especially 356! T.A.P. billet cylinder kits are virtually indestructible! Race proven! Ask the 2008, 2009 & 2010, 2011, 2012 AHRMA Formula 750 road racing national championship rider Tim Joyce!
- 2. T.A.P. Billet Cylinder Kits now feature a Nikasil plated bore. This virtually indestructable long lived plated surface, similar to that used by Ducati, Moto Guzzi, BMW etc. nearly all of the modern hot-dog bikes, assures the maximum amount of heat transfer to allow the fitment with our exclusive T.A.P. Billet pistons of only .001-.002" clearance creating not only longer piston, ring and cylinder life but also a quieter cooler running engine. Damage it Simply replate it. Another, not so apparent benefit for our British enthusiast, is that the plating resists rusting. Engines not run over the winter or for even longer periods will fair much better as their rings will not mare or attach to the plated surface. No more lost comprision or worse yet, a stuck rings.
- 3. **(III.A.P. Billet Cylinder Kits** feature an "O-ring" groove allowing for a insertable wire that firmly pinches the headgasket against the head to help prevent headgasket blowout. Standard on all Billet cylinders and most useful for those with ultra high compression sealing requirements.
- 4. T.R.P. Billet Cylinder Kits have an engineered structural central core. Our use of this over engineered core offers the most even cooling while maximizing cylinder base strength.
- 5. **(III.A.P. Billet Cylinder Kits** include our new Billet Pistons as designed by and exclusively manufactured for **(III.A.P. Cycle**. These Prefit **(III.A.P.** Ultra-high quality, Hi-silicone, Low expanding 4032 billet pistons have included features not normally seen in vintage bike replacement pistons. Available in a moderate 7.5:1 along with 9.5:1 & a race only 10.5:1 compression ("825" in 12:1 for use with alcohol type fuels). See page "EE" for more piston information.
- 6. T.A.P. Billet Cylinder 750 Kits are "Drop-On". No machining required for 9-bolt T120 nor the increased 774cc AHRMA Legal T140 "Big-Bore" upgrade. Larger "825" kits require case mouth boring and cylinder head stud relocation.
- 7. T.A.P. Billet Cylinder Kits incorporate "formed" head bolt threads. Along with using the best of materials, the deeply drilled holes are then "formed" to strengthen the thread thus helping prevent bolt/ stud pull-out common with aluminum castings and even some older cast-iron cylinders!
- 8. **(ff. A.P. Billet Cylinder Kits** are light weight. Less top heavy for better handling. T120 is 10 lbs lighter than a cast-iron cylinder. Lighter with best cooling along with increased "bolt-on" 774cc displacement for stock or racing T140's.
- 9. **TAP. Billet Cylinder Kits** have increased fin area. The fin design follows closely the cylinder head shape for vastly improved cooling (4-times the heat transfer of cast-iron)!
- 10. T.A.P. **Billet Cylinder Kits** have a "Brute" look. The entire engine now looks much larger, Beefier you might say! Want your bike to "stand-out" in a crowd? Shine the outer fins and base surface for an uncanny "show stopping" appearance.



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T.A.P. Cycle Enterprises, Inc.

- 11. **M.A.P. Billet Cylinder Kits** are easily repaired. Bend a fin! Simply heat and bend it back - no welding! Major damage? Weld it up and it's as good as new! Try that with an iron casting!
- 12. T.A.P. Billet Cylinder Kits include Pre-installed Tappet Guide Blocks (the latest now fitted with KPMI custom Manganese Bronze tappet blocks) eliminating the installation hassle along with the cost of removing, aligning then re-installing them in the block, all while making sure not to break them (an easy \$100 mistake!). We use the late style blocks as upgraded by Triumph Corp. in 1969 to help prevent oil leaks. Pre '68-1/2 heads require MAP7163 billet conversion pushrod tubes . Advise the year of your actual cylinder head when ordering.
- 13. T.A.P. Billet Cylinder Kits are the most comprehensive kit available. Includes all Stainless Steel hardware such as ARP 12-point Head-Bolts and/or Studs, (Special "wasted" studs are used in all positions possible to assure predictable torqueing).SS ARP 12-point 1/4" SS RockerBox Bolts & Nuts*, ARP 12-point



SS Base Nuts, SS Studs and SS Washers, **T**.**A**.**P**. Billet Alloy Pushrod Tubes with Stainless Steel Wedding Bands, a complete **T**.**A**.**P**. Top-end Gasket kit along with start to finish instruction pamphlet finishes off this Very Complete **TTAP Cycle** Cylinder Kit. The stainless steel combination of parts, with a Value of Over \$450, if purchased separately, is included at No Extra Charge! Now That's VALUE!! Where Else but **TTAP Cycle** ?

*Inc. ARP SS 1/4-24 tpi, 6-nuts (pre '68 use 6 of 14-1401) & 4-bolts (pre-'68 heads retap to 1/4-20)

- 14. T.A.P. Billet Cylinder Kits are available in configurations to best suit one's particular application: a "Big-Bore" conversion for Triumph Pre-Unit (must use with a 9-bolt head) and all Unit 650's, an AHRMA legal 774cc "Long-Rod" T120/T140 conversion using a 10-bolt head, up to the BRUTE "825cc" (884cc with stroker crank). Heat dispersant black hardcoat is available on Special Order at additional cost.
- 15. *Conclusion*: TI.A.P. **Billet Cylinder Kit** is the *Ultimate* replacement cylinder for your Triumph Big Twin. Why consider a lesser alternative of heavy cast-iron or porous cast aluminum, when, as you see, we've thought about it all! Then, we back it all up with a 46 old year business! From Orange County Choppers to AHRMA's National Formula 750 Champion, we Make and Offer, Simply the BEST Big-Bore Cylinder kits possible! Period!

NEW: Stock Shape Kalguard Coated Black "Sleeper" kits may be available soon - Inquire if there is any interest!

- MAP7100A 7.5:1 9-bolt "750" kit (pre '71 w-7" Rocker Box thru-bolts)
- MAP7100C 9.5:1 9-bolt "750" kit (pre '71 w-7" Rocker Box thru-bolts)
- MAP7100F 10.5:1 9-bolt "750" kit (pre '71 w-7" Rocker Box thru-bolts)
- MAP7100B 7.5:1 9-bolt "750" kit ('71-72 w-4" studs*) MAP7100D 9.5:1 9-bolt "750" kit ('71-72 w-4" studs*)

MAP7100G 10.5:1 9-bolt "750" kit ('71-72 w-4" studs*)

- MAP7102A 7.5:1 10-bolt 774cc "Long-Rod" kit
- MAP7102C 9.5:1 10-bolt 774cc "Long-Rod" kit
- MAP7102F 10.5:1 10-bolt 774cc "Long-Rod" kit
- MAP7104A 7.5:1 "825" "Long-Rod" kit MAP7104C 9.5:1 "825" "Long-Rod" kit
- MAP7104F 10.5:1 825" "Long-Rod" kit
- MAP7104G 12.0:1 "825" "Long-Rod" kit (Methanol Only)
- MAP7110A 7.5:1 T140/TR7 774cc kit
- MAP7110C 9.5:1 T140/TR7 774cc kit
- MAP7110F 10.5:1 T140/TR7 774cc kit



*4" studs allow external re-torquing. '71-72 w-4" studs req. T140 Coupling nut (21-2204), Bolt (21-2206) - ordered separately!

Stock Type T120 "Drop-On" "750" Kit (not shown): English made Cast-Iron cylinder, straightened and squared, fitted with MAP Pistons. Inc. Cylinder, Rings, Pins & Clips & Copper Headd Gasket. Use OE (cei) Hardware. Buyer should be aware. Imported cylinder kits are not created equal. Exercise caution when purchasing elsewhere as there have been cases of glaring defects with these kits! Note: Tappet blocks NOT included - re-install existing blocks or purchase new.

Note: Tappet blocks NOT included - re-install existing blocks or purchase new

MAP7150 Cast Iron "Big-Bore" cylinder kit with 7.5-1 M.A.P. Pistons (Call for availability)

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Deluxe Premier

TRIUMPH BELT DRIVE **CONVERSION**

WHY is the **TAR.P. Cycle** Belt Drive **CONVERSION** "THE BEST!"???

COMPARE Our Exclusive STANDARD FEATURES then SEE for YOURSELF:

- FRONT PULLEY is lightened STEEL BILLET, Gold Zinc PLATED for Great Looks & Maximum Durability 1. (Lasts longer than aluminum PLUS no worries about stripped splines). Double lipped "No Leak" Seal
- 2. CLUTCH BASKET is made from a HARDENED ALUMINUM for Longest Life & Lightest Weight. (SAVES up to 5 LBS. of Primary Weight for Much Improved Throttle RESPONSE, MORE HP & TORQUE)
- 3. CLUTCH BASKET utilizes an Exclusive SEALED DOUBLE BALL BEARING, Engineered and Designed by T.A.P. to STABILIZE the Clutch BASKET (NO Loose Rollers). Allows the Belt to be OUTBOUND beyond the bearing to evenly Load the surface of the belt (not just the inside edge common to most other systems) to resist ripping While Reducing MainShaft "Loading" for a Maintenance and Long Trouble-Free Life!
- 4. **CLUTCH PLATES** feature 12 Tang Friction Plates with 8 TIMES MORE SURFACE AREA over the stock 10-tang factory plates for the BEST Clutch Action and Longest Basket & Plate Life without "Grooving". No studs to loosen or cause damage. Moreover, the DRY CLUTCH Pack Design ELIMINATES Missed Shifts & Gear Change GRINDING caused by sticking wet clutch plates. SHIFT with a CLICK! NO GRINDING! NO CREEPING!!. 14-plate clutch packs now available. Inquire!!
- 5. **RETAINS SHOCK ABSORBER** the designers incorporated the Stock Shock HUB to ABSORB Drive Line TORQUE & SHOCK LOADS dramatically adding tranny life that can sideline both racer and rider.
- 6. DECREASED VIBRATIONS for a LONGER LASTING Engine & Transmission with SMOOTH POWER Delivery without the constant snatch as is so common with a chain.
- 7. **PROPRIETARY UNIROYAL HTD BELT** is Unique & Exclusive to only **T.A.P Cycle's** drive systems can be expected to Last 3-4 TIMES LONGER than the stock chain. None other like it as it was SPECIFICALLY DESIGNED with Custom Pitch of 101 Teeth to allow for the all important "Hot" clearance! A seemingly loose belt when cold will tighten when hot. A Tight Belt gets even tighter as eventhing heat up eventually Breaking the crank and/or transmission? Never use a tight belt - Ever - PERIOD!!
- 8. ENTIRE belt drive SYSTEM FITS in STOCK PRIMARY COVER (Unit Construction* "Street" Kits Only).

9. **NO OIL LEAKS** from the Primary Cover. It Runs DRY!

We're confident that you will realize that with its Superior Engineering, Design Features and Proprietary Parts, **III.R.P. Cycle's** Deluxe Belt Drive should be your ONLY Choice. Over 600 Sold WORLDWIDE. Best of all, it's Made in the U.S.A. since 1979! Backed by a solid reputation that spans 45 years. Who else can say that? Check out all we include on the right!

KIT INCLUDES: M.R.P. Cycle Front Pulley & Belt Retainer Disk; Double Bearing Clutch Basket; HTD Belt; 12-piece Clutch Plate Kit (optional 14-plate kit available soon); MAP Ball Bearing Billet Pressure Plate, Special Clutch Hub; Shock Housing Backplate, Backplate Spring Studs, Shock Absorber Rubbers; New Sprocket Dust Cover; Stator Relocating Studs (as needed) and Instructions. Now includes Billet pressure plate not shown!

Proudly MADE in the U.S.A. by T.R.P. Cycle



Continued on the next page

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M.A.P. Cycle Enterprises, Inc.

TRIUMPH 650 II's 1963 thru1968 (CEI thread) (inc. 3 spring shock back plate - 4-spring is optional) **MAP2000 MAP2001** TRIUMPH 650 II's 1969 MAP2002³ TRIUMPH 650 II's 1970-1972 MAP2004³ TRIUMPH TR7/T140 ALL KICKSTART (Note: E-Start & "Harris" models require breather mods.)
 MAP2010¹ TRIUMPH 500/650 PRE-UNIT (SwingArm Models Only: 30mm belt)
 MAP2012¹ TRIUMPH 500/650 PRE-UNIT (OE Rigid Frame Only: 30mm belt - Inquire!) Pre '58 req mods for seal
 MAP2015² TRIUMPH 650/750II's 1-3/4" Belt 4-Spring RACE KIT (Not for Alternator Use) (Will Not fit LH Shift Linkage)

MAP2018² TRIUMPH 650/750II's 1-3/4" Belt 3-Spring RACE KIT (Not for Alternator Use)(Will Not fit LH Shift Linkage)

NOTE: Pre-Unit Kits require outer primary cover spacers - Not Included.

²NOTE: Race Only engines should use a 4-spring shock hub & pressure plate to prevent heat buildup from even the slightest clutch slippage. ³NOTE: Includes Deluxe Breather Kit Also available separately - Order MAP2088/A (Std - Diaphram Valve) or MAP2088/B (DLX - Reed Valve) Important Notice: Correct installation is a must. <u>TIGHT BELTS WILL DESTROY DRIVE & TRANSMISSION</u>. Under NO Circumstances Use <u>ANY</u> Belt Drive System with Less than about 3/4" or More than 1-1/8" of FREE Total Belt Play Cold.



TRIUMPH "ECONO" **Belt Drive** Kit

A reintroduction of the Belt Drive originally sold and designed by T.A.P. Cycle back in 1979, has the cost conscious consumer in mind. Utilizing a Stock Style Clutch Basket, allows us to pass on the cost savings from our "Double Bearing" Deluxe Premier Drive System by not needing many of it's special parts. While open bearings may introduce some bearing lubrication maintenance, the benefits of adding a Belt Drive are still unquestionable. Easy Shifting, Best Clutch Action and NO OIL Leaks instantly come to mind. One can choose from a kit with the durability of our "Lightened" Iron (4 lb saving over a stock T140 primary), or our Ultra Lightweight Hard Anodized Alloy Clutch Basket (a whooping 5.5 lb saving). Don't be fooled by the word "Econo". **NOW** includes more standard parts than many more expensive British kits (and they don't have our Exclusive and Proprietary T.A.P. Cycle HTD Belt the only way for correct tensioning (non like it Anywhere)). **LOOK** what you get:

Proprietary **T.A.P. Cycle** Heavy Duty Race 12-piece Clutch Plate Kit - same as the Deluxe Kit

Proprietary **II.A.P. Cycle** Clutch Basket (Steel or Hard Anodized Alloy)

Proprietary **III.R.P. Cycle** HTD Belt (non like it Anywhere) - same as the Deluxe Kit

Proprietary T.R.P. Cycle Belt Retainer Disc - same as the Deluxe Kit

Special Alternator Relocating Studs '63-68 with 26tpi threads (cei) or '69-72 with 24tpi threads (unf) Special "Dry" ThrustWasher 1.890" ID ('63-69) or ThrustWasher 2.020" ID ('70-on)

Breather Kit ('70-on) Also available separately - Order MAP2088/A (STD) or MAP2088/B (DLX) Double Lipped Crank Sprocket Seal (all)

Note: Requires MAP Alloy Pressure Plate that some may already have, is Not Included. See page NN.

"Lightened" Iron TR6/T120 Econo Kit (1963 thru 1968 CEI Threads (26tpi)) MAP1981/A

MAP1981/B "Lightened" Iron TR6/T120 Econo Kit (1969 UNF Threads (24tpi))

"Lightened" Iron TR6/T120 Econo Kit (1970 thru 1972) MAP1981/C

MAP1981/D "Lightened" Iron TR7/T140 Econo Kit (1973-on (Not E-start))

"Alloy" TR6/T120 Econo Belt Drive Kit (1963 thru 1968 CEI Threads (26tpi)) "Alloy" TR6/T120 Econo Belt Drive Kit (1969 UNF Threads (24tpi)) "Alloy" TR6/T120 Econo Belt Drive Kit (1970 thru 1972) MAP1985/A

MAP1985/B

MAP1985/C

MAP1985/D "Alloy" TR7/T140 Econo Belt Drive Kit (1973-on (Not E-start))

Note: Though not required, we highly recommended for a successful installation: 3) 57-1722 & 3) 57-1723 Shock Housing Rubbers. Check for any "notching" or internal Shock Housing wear. Replace parts as needed. Correct installation is a must. TIGHT BELTS WILL DESTROY DRIVE & TRANSMISSION. Under NO Circumstances Use ANY Belt Drive System with Less than 3/4" or More than 1-1/8" of FREE Total Belt Play Cold.



St. Petersburg, Florida 33710 7165 30th Avenue North Phone (727) 381-1151 FAX (727) 347-9469

New! Exclusive "A" Series 4032 Piston Kits Compare these STANDARD FEATURES to those of our Competitors:

- 4032 Alloy Hi-Silicone (strong), Lo-Expansion (fitted tighter for longer life with less noise)
- 100% CNC Machined creates Even Heat Dissipation while very Light Weight
- Lo-Dome "Tight Quench" design for BEST Combustion with Lower Octane Requirements (9:1 & up).
- Large Valve Reliefs for oversize valves with up to .460" lift (Note: always check your specific application)
- Zero Deck Design for Maximum Power (9:1 & up) with 9:1 on Pump Gas!
- "Micro Groove" Piston SKIRT for the Longest Life Highest Resistance to Scuffing.
- 2nd Ring-Land "Accumulator" groove Helps prevent the unloading of the top ring from trapped blowby.
- 4 WristPin OILING Holes for LESS Heat Buildup in the Small End of the Rod and Wrist Pin.
- Cad Designed for Consistent Cross-Section and Lightest Weight Re-balancing not Required
- Best Quality Metric size Rings for Less Friction, Maximun Heat Transfer and Quick Seating
- Tapered WristPin (I.D.) for a Most Rigid Pin while Light Weight.
- Race Type "SpiroLoc" Clips ADD to RELIABILITY Won't Come OUT just like Nascar!
- Latest Piston Cam Design allows as little as .003" clearance for Less Noise than Other Forged Pistons.
- Piston kits are compatible with Nikasil plated bores.
- Sold in Complete Engine kits with rings, pins, clips & instructions
- Designed by and Made Exclusively for T.A.P. Cycle.

T120 "BigBore" & T140

ADDED FEATURES:

Lighter than Stock 650 pistons - NO Need to Re-Balance! Perfect replacements for MORGO, AERCO, Routt 750-850, Chatland, etc. Sold in Complete Engine Sets

COMPRESSION RATIOS (approximate):

10.5:1 "Tight Quench"² (Zero-Deck) allows for Hi-Compression with a Lo-Dome for BEST Flame-Travel & Combustion to deliver MAXIMUM Horsepower. Adds Power with Lower octane requirements. Light weight (318 grams (std)) vs 331 for a 10.5:1 *T120-650* PowerMax pistons for less vibrabration thus more power!



- (not recommended for use in street driven bikes nor with "pump" gas)
 9.5:1 "Tight Quench"² (Zero-Deck) Lo-Dome design for Better Combustion Properties than Originals. "Zero Deck" adds POWER!! OK with most "Hi-Test" fuel, Perfect with Street Type Performance Cams. GREAT for Street Enthusiasts. MAP9010A at a mere 313 grams complete (std) vs 334 grams for stock 650!! Ultra Light weight for less vibration making Re-balancing NOT Mandatory.
- 7.5:1 Highest Quality OEM Replacement for standard style pistons. Same high quality rings. No special Fitting, Headgasket or Mods required (not a quench design)! Only 305 grams complete (std) vs 334 gram for Stock 650 let alone the larger bore of the 750 "Big-Bore"!
- Rings: Superior Quality, Modern design, Japanese Rings: 1.0mm Barrel Face Nitrided Steel Top, 1.2mm Napier Iron 2nd, & 2.8mm 3-piece Nitrided Steel Rails Oil-Control offer RAPID Seating, BEST Sealing with the most Heat Transfer compared to poor quality stock OEM cast-iron rings.



TT.A.P. Cycle Enterprises, Jnc. Triumph T120/TR6 (650cc) Piston Kits*

FEATURES: Same features as with all **TAP Cycle** 4032 "A series" Piston Kits (see page EE for details) COMPRESSION RATIOS :

- 10.5-1 "Tight Quench"¹ Lo-Dome design for BEST Combustion with MAXIMUM Horsepower. Large Valve Reliefs for oversize valves with up to .460" lift. "Zero Deck" Design Adds Power. (Note: PowerMax (10.5:1) std = 331 grams)
- 9.5-1 "Tight Quench"¹ Lo-Dome design for Better Combustion Properties than Original Equipment. "Zero Deck" adds POWER!! OK with most "Hi-Test" Gas, Perfect with Street Type Performance Cams. GREAT for Street Enthusiasts. Check Head Gasket bore clearance.
- 7.5-1 Low Compression Replacements for easier starting. Same Hi-Quality features. No Special Fitting or Modifications required! Not Zero Deck Not Quench Dome a Direct Drop-in!
- Rings (all): Superior Quality, Modern Japanese design: 1.0mm Barrel Face Nitrided Steel Top, 1.2mm Napier Iron 2nd, & 2.8mm 3-piece Nitrided Steel Rails Oil-Control offer RAPID Seating, BEST Sealing with the most Heat Transfer compared to poor quality stock cast-iron rings. Sold in pairs
- MAP9006A
 III.A.P. PISTON SET
 7.5:1

 MAP9007A¹
 III.A.P. PISTON SET
 9.5:1

 MAP9008A¹
 III.A.P. PISTON SET
 10.5:1

Note: Add "/XXXX" to part number where "XX.XX" is the required bore size in millimeters - available in 71.00, 71.50, 72.00, 72.50 & 73.00mm
 Note: IMPORTANT!! "Zero Deck" pistons require checking of Dome to Head clearance along with headgasket bore diameter (Bore OE gasket to correct clearance or order 70-4547/A (2.795-2.830" bore) or 70-4547/B (2.835-2.860" bore) to avoid contact with Head and/or Headgasket!

Race Proven 2008 AHRMA Formula 750 NATIONALCHAMPION 2009 Daytona Formula 750

WINNER - Tim JoyceExclusively uses

Ш.А.Р. Cylinders, Crank, Rods, Pistons,

Belt Drive. . . .

In fact, All Power Train Components for this engine are directly from this catalog!



Norton 750/850 Piston Kits

All the features of **TAP Cycle** 4032 "A" series Piston Kits (see page "EE" for full details) except Norton pistons are flat-tops with eyebrows! Use with stock headgaskets. Compression ratios are approximate due to head variations and based on .120" counterbore and .040" Head Gaskt. Sold in Pairs

MAP9030A [*]	Π.Π.Ρ. PISTON SET - 750 w/Stock Rod 8.5:1 (9:1 Combat head) 228 grams complete
MAP9031A [*]	間.花.P. PISTON SET - 750 w/Stock Rod 10:1 (Combat head req. mods.)
MAP9032A [*]	面.花.P. PISTON SET - 750 w/MAP 6.362" Long Rods 8.5:1 (9:1 Combat) 185 grams bare
MAP9033A [*]	ጠ.ሽ.P. PISTON SET - 750 w/MAP 6.362" Long Rods 9.75:1 (Combat head req. mods.)
MAP9035A [*]	ጠ.ሽ.P. PISTON SET - 850 w/Stock Rod 8.5:1 (9:1 w/.040" decked head)
MAP9036A*	ጠ.ሽ.P. PISTON SET - 850 w/Stock Rod 9.5:1 (check clearances for decked heads)
MAP9037A [*]	ጠ.ሽ.P. PISTON SET - 850 w/MAP 6.362" Long Rods 8.5:1 (9:1 w/.040" decked head)
MAP9038A *	ጠ.ሽ.P. PISTON SET - 850 w/MAP 6.362" Long Rods 10.5:1 (check clearances for decked heads)
* Note: A dd U/X/X/	

*Note: Add "/XXXX" to part number where "XX.XX" is the required BORE SIZE in millimeters. See available sizes below. 750: 73.00, 73.50, 74.00, 74.50mm

850: 77.00, 77.25*, 77.50, 77.75*, 78.00, 78.50mm (* Inquire)

T.R.P. Brand Piston Kit Rings- Wrist Pins - Clips

 MAP9019/RXXXX
 RING SET - Latest TI.A.P. "A" Series Billet 4032 Piston sets Only. All models (per engine set)

 MAP9019/XXX1
 RING SET - Old Series TI.A.P. Pistons Triumph 650, "BigBore", T140/TR7 (per engine set) 1.5x1.5x2.8mm

 MAP9019/XXX2
 RING SET - Old Series TI.A.P. Pistons Triumph 650, "BigBore", T140/TR7 (per engine set)

 MAP7084A/R3
 RING SET - TI.A.P. Triumph T150/T160 & Rocket III "867cc" Big Bore 4032 Series Piston Kit (per engine set)

 MAP9039/XXX4
 RING SET - TI.A.P. Norton 750/850 Pistons (per engine set) (NOT Billet 4032 Series) - See footnote²⁸⁴

 ¹ where "XXX" is the last 3 digit of your piston part number (the OverBore Size (3.000" as "STD")) using 1.5 x1.5 x 2.8mm ring pack .

 ² where "XXX" is the last 4 digit of your piston part number (the Bore Size in millimeters (XX.XXmm)) Note: ring pack size varies

 ³ for Early 2816 versions (prior to 4/30/2017) w-1.5 x 1.5 x 2.8mm - order MAP7084/R "Std" (2.855" bore) or MAP9085/R for +.010" (2.864" bore).

 ⁴ for all "A" (4032) series (from 05/01/2017) w-1.0 x 1.2 x 2.8mm - order MAP7084/R "Std" (2.855" bore) or MAP9085/R for +.010 (2.864" bore).

 ⁴ for all "A" (4032) series (from 07/01/2017) order MAP9019/RXXXX where "XXXX" is the last 4 digit of your piston AP9019/RXXXX where "XXXX" is the last 4 digit of your piston spart number (bore size).

 FF
 7165 30th Avenue North Kebsite: sales@mapcycle.com Kemail: sales@mapcycle.com Phone (727) 381-1151

M.A.P. Cycle Enterprises, Jnc.

Continued from page FF

MAP9040	WRIST PIN - Triumph T100 & T120 OEM (.6886 x 2.155") Sold each
MAP9041	WRIST PIN - Triumph T.A.P. Brand Piston Kits & Norton "Long-Rod" Kits Only (.6886 x 2.25") Sold each
MAP9042	WRIST PIN - Triumph T120/TR6 OEM Late (.6886 x 2.39") Sold each
MAP9045	WRIST PIN - Triumph T.R.P. T140/TR7 Piston Kits Only (.750 x 2.25") Sold each
MAP9046	WRIST PIN - Triumph T140/TR7/BSA OEM Replacement (.750 x 2.37") Sold each
MAP9047	WRIST PIN - BSA B44 (.6886 x 2.62") Sold each
MAP9048	WRIST PIN - Aerco (.6886 x 2.635") & Morgo (must be trimmed to 2.621") Only 68 grams Sold each
MAP9049	WRIST PIN - Norton III. A.P. Piston Kits Only (.686" x 2.25") Sold each
MAP9060A	PinCLIP - All T.R.P. "A" Series 4032 Piston sKit w/.685689" Pin & any with original clip OD of .748" (each)
MAP9060	PinCLIP - Any T.R.P.Piston Kit w/.685689" Pin Size originally supplied with clip OD of .807" (each)
MAP9065	PinCLIP - Any m.R.P. Piston Kit w/.750" Pin Size (Sold each)

You can be a winner too!! These Championship Winning Machines are both fitted Exclusively with Every Power Train Engine Component Directly from this catalog!

2008-2009-2010-2011-2012 AHRMA Formula 750 '09 Formula 750 & Formula 3 NATIONAL CHAMPION Tim Joyce on his Race Prepared **TT.A.P.** Triumph 750 See Tim in ACTION at most AHRMA Road Race Events



Check-it-Out! 76° Offset

T.A.P. Billet Crankshaft¹

"EN40B" Billet Crankshaft(s): Designed by and made exclusively for **TI.A.P. Cycle**! Features: out-bounded flywheeels to Minimized Flexing (freeing a bit of horsepower while reducing potential fracture risk); maximized radii (for added strength); "Tear-Drop" oiling holes (increases and evens out oil flow); Triple heat-treat, Shot Peened and Ion-Nitriding makes for one of the strongest, highest revving, longest lasting crank available. Latest T140 design (30mm timing side journal¹ and long alternator snout for additional rotor support. Dynamically Balanced (see bob-weight per part number)!

Available in the standard 360° oem version along with the Phil Irving inspired 76° offset where for an 82mm crank using a 6.5" long rod, had the ingenious concept that as one piston is stopped the other being at its maximum velocity offsets the stopped piston that creates a unique new sound, dramatically decreases vibration all while increasing revability. A great enhancement for racer and street rider alike. Note: While a 90° offset may have slightly improved harmonics, the actual felt vibration (the rocking couple) is reduced by using Irvnings concept, having been documented by back to back comparisons by several Australian and New Zealand racers verifing 76° as the better option.

TAP Cycle stocks the required cams and ignition to allow the builder one stop shopping!

MAP9215/EN	Triumph T120/T140 ¹ (360°) Balanced with 713 grams bobweight (per journal)	N	
MAP9215/EN-76	Triumph T120/T140 ¹ (76°) Balanced with 585 grams bobweight (per journal)	NO.	
MAP9217/EN-76 ²	Triumph T120/T140 ¹ 89mm "Stroker" (76°) Balanced with 604 grams bobweight (per journal)		
MAP9200 MAP9220 MAP9230	Triumph T100 (unit) (Inquire!) Norton Commando (Inquire!) BSA Unit Twins (Inquire!)		
¹ Note: To fit a T120 (prior to GE allow the RH 30mm Met	E27209), replace Timing-side Bearing with either 70-3835/MI (ball bearing) or tric journal crank to fit earlier inch dimension crankcases. EYI: to use with a D	60-7362/MI (locate	d ro

Note: To fit a T120 (prior to GE27209), replace Timing-side Bearing with either 70-3835/MI (ball bearing) or 60-7362/MI (located roller) to allow the RH 30mm Metric journal crank to fit earlier inch dimension crankcases. FYI: to use with a Duplex Type chain or where an alternator is not required, a spacer may be required (or the rotor snout shortened) due to the long snout of the T140,.
 Note: 1-3/4" Big-end Journals use with Norton style shells (B2101LC). We recommend MAP7063 ConRods (6.362" c-c) so as to use ffT.A.P. Cycle

stroker crank with T120 style Pistons/Barrel. Check for clearance at the stud bosses (about 4:30 & 7:30 o'clock) and around both cam bush bosses. 7165 30th Avenue North St. Petersburg, Florida 33710

Phone (727) 381-1151 FAX (727) 347-9469

III.A.P. Cycle Enterprises, Jnc.

New Product Release 4340 Steel "H" Beam Connecting Rods for Triumph, BSA & Norton Engines

III.R.P. Cycle Enterprises. Jnc. of St. Petersburg, Florida U.S.A. has been making performance Aluminum connecting rods for over 15 years with great success have now decided to add a new series to our Hi-Performance line up. These new connecting rods have been specifically designed, thru the use of new design software and modern machining techniques, a combination of lightweight with a "lifetime" of reliability. Made from an ANSI 4340 forged steel. A reasonably priced replacement rod in a wide range of models for popular British Motorcycles (others depending on demand). Compare the features to ANY currently produced rod to find that once again T.R.P. Cycle has the best parts for the best British motorcycles. Sold in Engine Sets only.

Features:

- Performance Preferred "H" Beam Design
- Exotic AISI 4340 "Lifetime" Forged Steel
- Hollow Dowels align Big-end Cap for repeat concentricity, rugged reliability, ease of assembly & eliminates cap-walk
- ARP2000 Rod Bolts (220,000 lb. tensile strength)
- Finite Element Analyses Design by High Cotton MotoWorks allows for:
 - a) Re-shaped pin boss for added strength (helps prevent "pin flex"& small-end failure)
 - b) Double "Forced" pin oilers to reduce friction and piston pin heat
 - c) Bushed Small End (replaceable) eliminating the need for fragile and expensive DLC pins
 - d) Optimized Big-End and Pin Boss for strength with the ALL important reduced weight compared to other steel rods
- "Ultra-Light" weight:

T100 (T25/B25)- 98 gram Small End - 281 gram Big End (5.312" Center to Center)

T120 - 115 gram Small End - 314.5 gram Big End (6.5" C-C)

SmallEnd is Only 15grams heavier than OEM but with a true piece of mind of owning a part that will last a life-time T120 "Stroker"/Norton "LongRod" conversion rod - 116 gram Small End - 326 gram Big End (6.362" Center to Center)

Adapts 1.750"x 1.09" journal 89mm stroke Norton or custom crank to use all standard T120 top-end parts.

T140 - 114 gram Small End - 311 gram Big End (6.0" Center to Center)

T150/Rocket III - 105 gram Small End - 292 gram Big End (5.75" Center to Center)

Norton Commando/Atlas - 105 gram Small End - 292 gram Big End (no big end oiling holes) (5.875" Center to Center) A50/ A65 - 113 gram Small End - 314 gram Big End (no Big end oiling holes) (6.0" Center to Center)

A10 (w/1.687" journals) - 120 gram Small End - 320 gram Big End (no Big end oiling holes) (6.5"Center to Center)

- Latest CNC Manufacturing Techniques
- Uses OEM Big-End Rod Shells
- Track Tested Design
- Best of All Reasonably priced!

ORDER:

HH

MAP7060 - T100 "Unit" 500cc Engines MAP7061 - T120/TR6 650cc & "Big Bore" Engines MAP7062 - T25/B25 "Unit" 250 cc Single cylinder Engines (\$225) MAP7063 - T120 "Stroker" (89mm) or Norton "Long Rod" Conversions (6.362" c-c) MAP7065 - T140/ TR7 Engines MAP7067 - Norton Commando/ Atlas Engines MAP7066 - T150/ BSA Rocket III/ Hurricane Engines MAP7068 - BSA A50/ A65 Engines MAP7068A - BSA A10 late model with 1.687" big-end journals







(dealer and distributor pricing available - inquire)

TANDARD EEATURES: W.A.P. Cycle Enterprises, Jnc. W.A.P. Black Diamond" **VALVES**

STANDARD FEATURES:

EV-8 One-Piece Forged Stainless (The best in the business) Superior Coating:

A Black Oxide Nitriding (a Salt Bath Solution Surface Hardening Treatment) *Penetrates*.002" (prox.) into the Stainless (EV8) Core Material forming a .0002" *Outer* Layer of nearly **60 Rockwell**. This "Black Diamond" coating adds a surface hardness and smoother finish greatly reducing friction (less heat allows for a tighter fit) while providing for the most Durability (longest life), thus making these III. A.P.Cycle valves **Superior** to not only to any stock styles but especially so to *Hard Chrome* and other type of Finishes in *ALL* Instances.

Stem TIP: Induction Welded Heat-Treated HNV3 (50+ Rockwell) reduces *Mushrooming* & guide wear. **Available in Oversizes** (OS):

T.R.P. OS Valves are Flow Tested for Optimum Performance (Triumph T120/T140 Only).

OS Valves Can also be used to *Rejuvenate* Sunken Valve Seats, Correcting Geometry.

Note: TT.A.P.Cycle *Exclusive*: MAP9163 & MAP9167 OS Valves feature Relocated (higher) Keeper Location to Accommodate Hi-Lift Racing Cams & Springs (*saves* additional expensive machine work or lost time). *Always check valve to piston clearance on oversize valves.*

TRIUMPH 1959-On 1949-62 1954-57 1958-63 1959-63 1963-66 1963-on	T100 (Unit) '67-on (1.57" In 1.32" Ex.) (Reduce Head C NOTE : 1.6" (OS IN) 1.37" (OS EX) HEAD DIAMETERS "Black 6T, Thunderbird "Black T110, TR6 "T110, TR6, (6T 1963 only) T120 Bonneville "T120 Bonneville 6T, Thunderbird, TR6 (from engine #DU5825) "Black T120 (All '66-on 650/750 II's from eng. #DU44394) "Black NOTE : 1.66" (OS IN) 1.50" (OS EX) HEAD DIAMETERS "Black 6mm "Black Diamond" CONVE 6mm "TITANIUM" CONVERSION (OS	Intake MAP9156 MAP9157 MAP9166* MAP9167* MAP9167* MAP9167* MAP9167* MAP9167* MAP9167* MAP9167* MAP9167 MAP9167 MAP9163 Sersion (STD) MAP9163 PM40550 PM40551 S) (Race Only) MAP9151/TI	Exhaust MAP9158 MAP9159 MAP9166 MAP9166 70-3927 70-3927 70-3927 MAP9166 MAP9167 PM40553 PM40554 PM40554/TI
1968-73 1974-76	Trident/Rocket (Long Stem)	lack Diamond"MAP9170Diamond" OSMAP9171lack Diamond"MAP9174Diamond" OSMAP9175	MAP9172 MAP9173 MAP9178 MAP9179
*Note: These "	Flowed"ex valves are very close to the same profile of the std OE inte	ake valve but require a .060" spring cup s	him (VS060).
BSA			A REAL
all 1971-73	B25	lack Diamond" 68-0661/BD Diamond" OS 68-0661/BDOS lack Diamond" 71-1735/BD Diamond" OS 71-1735/BDOS	68-0662/BD 68-0662/BDOS 71-1736/BD 71-1736/BDOS MADD100
1966-72 [1968-73	NOTE: 1.659" (OS IN) 1.459" (OS EX) HEAD DIAMETERS "Black BSA Rocket III (See Triumph Trident/ BSA Rocket (Lon	Diamond MAP9186 Diamond OS MAP9187 g Stem))	MAP9188 MAP9189
NORTON			
Norton COM	MANDO (1969-on)"B [NOTE: 1.56" (OS IN) 1.36" (OS EX) HEAD DIAMETERS] "Black	lack Diamond" MAP9194 Diamond" OS MAP9195	MAP9198 MAP9199
	7165 30th Avenue North St. Pe Website: www.mapcycle.com Email: sales@mapc	tersburg, Florida 33710 ycle.com Phone (727) 381-1151	

T.A.P. Cycle Enterprises, Inc.



Ⅲ.A.P. "NASCAR '45'"[™] VALVE GUIDES

STANDARD FEATURES:

Exclusive "NASCAR '45'"™ Material;

A Proprietary Alloy as Designed for and Used Exclusively in NASCAR *Until NOW*. "**NASCAR '45**"TM is 674 Manganese Bronze Alloyed with added Nickel and Aluminum to Give the Highest amount of Heat *DISSIPATION* (Ever Notice Pitting on your seats and/or valve faces? Partially Seized Valve Stems?) along with Longest Life (Racing Requires Durability!) then Machined on Modern CNC Equipment for Exacting Size & Concentricity. Don't be Fooled. "**Nascar '45**"TM is similar to Amco 45 as sold by others but with a Molecular Structure, 2nd to None, designed to *Dissipate* (Not Absorb!!) Much MORE Heat (30-35% MORE!!) than standard Ampco 45. Proven in Racing and on the Street by enthusiasts across the globe!

Exclusive "Ringed" Margins:

No Longer Require Different Guides for Sealed/Unsealed Applications, Remove a Small Bit of Material and Add Our MAP9140¹ High Temp Viton "Oil Metering" Seals made from Hi-Temp Viton, Remain Pliable under Hi-Heat Race Conditions. Minimizes Drying Common to O.E. Single Lipped Seals.

Constant research and development:

Ⅲ.**ℤ**.**ℙ**. "**Nascar** '**45**[™] Valve Guides are the Absolute Best Guides Available for Street or Track. Etched with "Type and Size" for Ease of Identification. Insist Your Dealer Carry the Very Best British Valve Guide **Ⅲ**.**ℤ**.**ℙ**.'s "**Nascar** '**45**[™]. Ask for it by name! (Sold each)

OverSizes: A	dd "/XXX" for OD oversizes (+.001,002,003,004,0	05 ,006,008,015,050")	
TRIUMPH			
MAP9115 MAP9116	TRIUMPH I's thru '70 - IN/EX (those with .560" spring TRIUMPH I's '71-on - IN/EX (those with .680" dia. flan	seat dia.) (.311" I.D.) ge type) (.311" I.D.)	
MAP9100	T100 (unit) '59-on - IN/EX (No circlip required) (.311" I	.D.) DRP 9140	
MAP9102	T120/T140 thru '78 & T140E '79 - IN/EX (.311" I.D.)		
MAP9103	T120/T140 thru '78 & T140E '79 IN/EX (.309" I.D. for "I	HONE to FIT" Applications)	
WAP9104/51D	1120/1140 /mm Kits thru 78 - IN/EX (Stal OD for PM	kits only) Close out till gone \$10.00ea	
PM40590	T120/T140 6mm Conversion (for seal - use # PM40598	8) available in STD, +.002" & +015") only	
MAP9105	T140D & T140 - IN/EX '80-on (those with .560" sprin	ng seat dia.) (.311" I.D.)	
WAP9108	155 750 II S - IN/EX (NOT NASCAR 45 ***) USE with C	J.E. Seal #06-2726 only	
MAP9109	1150/1160/ROCKET III - Intake ² and/or Exhaust ² (.311	″ I.D.)	
BSA			
MAP9115 MAP9116	BSA I's thru '70 & B50 (All) (.560" spring seat dia.) - IN/EX (.311" I.D.) BSA I's '71-on (.680" dia. flange type) - IN/EX (.311" I.D.) (Note: for B50 use MAP9115)		
MAP9110	A10 - 1949-1962 - IN/EX (.311" I.D.)		
MAP9112	A50/A65 - thru '70 - IN/EX (those with .560" spring seat dia.) (.311" I.D.)		
NODTON		(.stit.l.)	
NORION		Decommonded Value to Cuide Clearance	
MAP9120 ² MAP9102	NORTON 650-750 (IN) ² (.312" I.D.) NORTON 650-750 (EX) (.313" I.D.)	using MAPXXXX Series Valves along with	
MAP9126 ²	NORTON 850 (IN) ² (.312" I.D.)	MAP XXXX Series Valve Guides ONLY:	
MAP9128	NORTON 850 (EX) (.313" I.D.)	Exhaust .002"	
1NOTE: Seal use is a	It the discretion of the purchaser if not installed as original equipment. Sp	poradic top end oiling (those not pressure feed) when used	
extensively f 2NOTE: Order MAP9	or slow speed riding, may experience seizure. 140 - Valve Stem oil "Metering" seal (Sold each). For Rocket III &T160	it is recommended to be used on both intake and exhaust	
JJ	7165 30th Avenue North St. Petersh	ourg, Florida 33710 🛛 🔤 🔤	
	Website: www.mapcycle.com Email: sales@mapcycle.con	n Phone (727) 381-1151	

	— M.A.P. Cvcle Enterprises. Inc. ——		
PM Hi-Perf	Formance Valve Springs Reduce Damaging Harmonics and Help Prevent Float Without Un Parings are Fully Shot Beened and Magnafluxed to Eliminate Matel Stress and Hidden Cra	ndo	
Assuring La	asting Reliability. These Hi-Performance Engine Kits Include: Titanium or Lightened Steel	Тор	
Collars, Chi	rome Silicone (CrSi) Dual Springs, Steel Base Cups & Fitting Instructions. See descriptions bel	.ow.	
PM1030/TI	BSA B25 - 80lbs. seat @ 1.390" (200 @ .345" (OK to .500" Lift)) Inc. Titanium Top Coll. Steel Bottom Cups. Use with your Stock Keepers.	ars,	
PM1005/TI PM0330/TI	BSA B50 '71-on TRIUMPH 500 II's - as above for 500 singles - 74lbs. seat @ 1.205" (206lbs. @ .455") Inc.Titanium Top Collars & Steel Base Cups (Use with your Stock Keeper	rs)	
PM0290	TRIUMPH 650 II's A- Hi-quality Stock 650 Replacement Kit '63-72 (not T120RV) Inc. Steel Coll. CrSi Springs & Base Cups. Use with your stock Keepers.	ars,	
PM0295	TRIUMPH 750 II's - As Above for T120RV/T140/TR7		
PM0292	TRIUMPH 650 II's - 90lbs. seat &1.310" (220lbs. @ .460" Max) Inc. Lightened Steel Top Coll CrSi Springs & Base Cups. Use your stock Keepers. (not for T120RV)	ars,	
PM0296	TRIUMPH 750 II's - As Above for T120RV/T140/TR7		
PM0500	I RIUMPH 650 II's - BeeHive Version of PM0292 (90lbs. seat &1.375" (220 @ .460" Max.))		
PM0530	TRIUMPH 650 II's - BeeHive 6mm Version of PM0500 (inc. Ti Retainers & Steel Keepers)		
PM0560	TRIUMPH 750 II's - BeeHive 6mm Version of PM0550 (inc. Ti Retainers & Steel Keepers)		
PM0300	TRIUMPH 650/750 II's - 104lbs. seat @ 1.420" (Inc. Hard Anodized Alloy Retainers & Steel Keep	ers)	
PM0300/TI	TRIUMPH 650/750 II's - as above with Titanium Top Collars (Inc. Steel Keepers)		
PM0350/TI PM4060	TRIUMPH/BSA III's - Inc. Titanium Top Collars OK to .400" valve lift! Use with your Stock Keep - 105lbs. seat @ 1.420" (rec. 95lbs. for street) 185lbs. @ .320" (.500" Max.	oers .)	
PM4070	NORTON 750/850 - 750/850 Commando Replacement Spring Kit 93lbs. seat @ 1.410" 170 @ .3 (.410" Max.) Inc. Steel Collars, CrSi Springs & Base Cups. Uses stock Keep	320" ers.	
Hi-PERFORMANCE			
PUSHRODS			
8	III.R.P. 's Light Weight, Thin Wall Aricraft Tubular Chrome Moly Pushrods with Hardened Steel Tips		

M.A.P.'s Light Weight, Thin Wall Aricraft Tubular Chrome Moly Pushrods with Hardened Steel Tips Eliminate Harmonic Variations Caused by Weak Flexing Stock Pushrods to Hold Spot-on Timing Even at High RPM. These Quality Pushrods can be Used with Stock or Performance Springs at Usually LESS than Stock Prices!!!!! Limited Quantity of Steel-Tip Aluminum Tube Pusrods (only while supply last) **Note**: Remove any portion of rocker box gasket that may wear on pushrods especially with Hi-Lift Cams!

PM10410 PM10415	BSA/TRI 250 '68-71 ChroMoly (Set 2) BSA 441 to '68 Round Barrel ChroMoly (2)	MAP MAP1722	TRI 500 UNIT (Set 4) TRI 650 ALL Alloy (Set 4)
PM10420	BSA 441 '68-on Square Barrel ChroMoly (2)	PM0301	TRI 650 ALL ChroMoly (Set 4)
PM10425	BSA/TRI 500 (B50) I's ChroMoly (Set 2)	MAP1724	TRI 750 II's Alloy (Set 4)
PM10400	BSA A50 ChroMoly (Set 4)	PM0447	TRI 750 II's ChroMoly (Set 4)
PM10405	BSA A65 ChroMoly (Set 4)	MAP	TRI 750 III's '68-69 (Set 6)
MAP1730	NLA See PM50010	MAP	TRI 750 III's '70-74 (Set 6)
PM50010	NORTON COMMANDO ChroMoly (Set 4)	MAP	TRI T160 (Set 6)

7165 30th Avenue North St. Petersburg, Florida 33710 Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

T.A.P. Cycle Enterprises, Jnc.

Triumph 650/750 Twins



Billet Performance Camshafts

Brand NEW EN40B Cores, Heavily Nitrited for longest life (60 hour bath) with no worry of bad, damaged threads or worn bearing surfaces of reground cams. * **Note**: for Pre-Unit engines add: "/PU" to part number Stock 650 - 272 degree duration .314" Cam lift: Stock 750 - 293in/258ex degree duration @.020" .342"in./.302"ex Cam lift

MAP1000N* Great low-end street power with some added midrange - good for scrambles style riding - effective power 2500-7000 rpm. Check Clearances. OK with stock valve springs (use with "R" tappets) Duration 282 degrees (approx.) @ .020" - valve lift .390" - L.L. .348 - L.C. 100in 102ex Timing 41btc/61abc (in); 63bbc/39atc (ex) - .010" lash

- MAP1065N* BEST overall cam for Triumph 650/750II's (per Motorcyclist Magazine) featuring redesigned ramps for less lifter noise. Broad power band ideal for hot street. Must use performance springs & pushrods. Check Clearances. Note: If using "STD" Tappets for more low & mid-range power time at the same L.C. Duration 292(in) 295(ex) degrees (approx.) @ .020" - valve lift .400" - L.L. .355" - L.C. 101in 104.5ex 45btc/67abc (in); 72bbc/43atc (ex) - .010" lash (use with "R" tappets) Timing
- MAP1052N* NEW Race profile for Triumph 650/750II's. Modern Computer designed ramps for best peak power with long durability. Great roadrace. Broad power band ideal for TT & Speedway racing. Must use performance springs & pushrods. Clearances especially camlobe to flywheel & tappets to tappet block at max. lift. Duration 296.5 degrees (approx.) @ .020" - valve lift .422" - L.L. .375" - L.C. 103in 105ex Timing 45.5btc/71abc (in); 73.5bbc/43atc (ex) - Lash .008in .010"ex (use with "R" tappets)
- **MAP1046N*** Reproduction of Sifton 460. Popular as a sport cam. Must trim tappet block tangs. Check Clearances. Duration 308 degrees (approx.) @ .020" - valve lift .460" - L.L .401" - L.C. 102in 106ex 52btc/76abc (in); 80bbc/48atc (ex) - Lash .008"in .010"ex (use with "STD" tappets) Timing
- MAP1047N* MAP1046N (460) intake with MAP1052N exhaust Combo set. Excellant Mid-Range AND Top-End

MAP1075N* Racing profile - Perfect for the performance enthusiast Good Bottom, Fantastic TOP. Must be used with hicomp pistons, racing pushrods, spring kit, at least 750cc and super port. May need crank or case grinding. Must trim tappet block tangs. Check Clearances. Duration

326 degrees (approx.) @ .020" - valve lift .450" - L.L. .400" - L.C. 102in 105ex 61btc/85abc (in); 88bbc/58atc (ex) - Lash .008"in .008"ex (use with "STD" tappets only) Timing

- **MAP1085N** Norris designed "480" intake only. Requires ALL Racing Components. Must trim tappet block tangs. Duration 316 degrees (approx) @ .020" - valve lift .480 - L.L. .425" - L.C. 100in Timina 58btc/78abc (in); Lash .008"in . (use with "STD" tappets only)
- MAP1090N* Designed for big inch motors greater than 800cc. Full Race. Great for High R.P.M. drag race, grass track & competition. Requires ALL Racing Components. .812" Base Circle. Must trim tappet block tangs. Duration 340 degrees (approx) @ .020" - valve lift .450 - L.L. .400" - L.C. 108in 108ex

62btc/98abc (in); 98bbc/62atc (ex) - Lash .008-.014"in .008-.014"ex (use with "STD" tappets only) Timing

** 76 Degree Offset Profiles for Triumph 650/750 Twins with MAP 76 degree Offset Cranks **

MAP1006N Same Profile as MAP1000N Cams **MAP1048N** Same Profile as MAP1047N Cams **MAP1056N** Same Profile as MAP1052N Cams

76 degree Off	Set Cranks **	NEW!!
MAP1066N	Same Profile as	MAP1065N Cams
MAP1076N	Same Profile as	MAP1075N Cams
MAP1086N	Same Profile as	MAP1085N Cams
MAP1096N	Same Profile as	MAP1095N Cams

Triumph 500 Twins



Hardfaced Lobes on "BILLET" (Brand NEW) Cams, for longest life without worry of bad or damaged threads or worn bearing surfaces of reground cams. (Stock 500 - 237 degree .314"in/.293"ex cam lift (prox.))

MAP1202 Stock type for use with Stock Pistons and Stock Valve Springs with much longer life. Good mid-range and Throttle Response. (use with "R" tappets) 282 degrees @ .020" - L.L. .348" - L.C. 100in 102ex Duration 41btc/61abc (in); 63bbc/39atc (ex) - Lash .010"in .010"ex Timing **MAP1265** Best all around for street/track use. Better mid-range & top-end power. Best with Hi-Performance pistons & springs. (use with "R" tappets) 292 (in) 295 (ex) degrees (approx) @ .020"- L.L. .355" - L.C.101in 104.5ex Duration Timina 42btc/67abc (in); 72bbc/43atc (ex) - Lash .010"in .010"ex 7165 30th Avenue North St. Petersburg, Florida 33710 LL Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

T.A.P. Cycle Enterprises, Inc. Triumph/BSA Triples Hardfaced "Billet" (Brand NEW Hardfaced Cam) (Stock T150 - 237 degree .314in .293ex cam lift (prox) (Stock T160 - 264 degree @ .040" .320in .322ex cam lift (prox) MAP1100N Best all-around for street/touring use. Factory road race grind. Smooth Power. Good low-end throttle response with increased top-end. (use with 3/4" radius tappets only) Duration 282 degrees (approx.) @ .040"- valve lift .388" - L.L. .345" - L.C. 98in 102ex Timina 43btc/59abc (in); 63bbc/39atc (ex) - Lash .005"in .007"ex **MAP1160N** More top and less bottom than map1100. Best with big bores, (use with 3/4" radius tappets only) Duration 287 degrees (approx.) @ .040" - L.L. .375" - L.C. 104.5in 107.5ex 39btc/68abc (in); 71bbc/36atc (ex) - Lash .008"in .010"ex Timina Full race-for "860cc" or larger. Excellent for high rpm/high speed use. Must use with performance pistons & **MAP1170** springs. Must trim tappet guide blocks. (use with 3/4" radius tappets only) 274 degrees (approx.) @ .040" - valve lift .450" - L.L. .400" - L.C. 108in 108ex Duration Timina 29btc/65abc (in); 65bbc/29atc (ex) - Lash .008"in .010"ex Camshaft - BSA B25/B44/B50 Hardfaced "BILLET" (Brand NEW Hardfaced Cam) (Other grinds are available on Special Order - Inquire!) (Triumph T100/TR-5 MX) **MAP1410** Wide Power Band. TT Performance. Offers a Real Gain in Topend Performance Without Sacrificing Bottom End Pull. Must use Radius Tappets & Performance Valve Springs. (.156" Keyway - .747" Journals) Duration 268 degrees (approx.) @ .040" - L.L. .400"in .400"ex - L.C. 103in 103ex 31btc/57abc (in); 57bbc/31atc (ex) - Lash .008"in .008"ex Timina Camshaft - BSA A50/A65/A70 Hardfaced "BILLET" (Brand NEW Hardfaced Billet) Very close to stock (retarded 3 degrees for more top-end) **MAP1542** Duration 262 degrees (approx.) @ .040" - L.L. .347"in .341"ex - L.C. 107in 100ex 24btc/58abc (in); 51bbc/31atc (ex) - Lash .006"in .007"ex Timina MAP1542x2 Improved mid-range and top-end pull. OK with stock pistons, valve springs and tappets Duration 276 degrees (approx.) @ .040" - L.L. .356" - L.C. 106in 106ex 32btc/64abc (in): 64bbc/32 atc (ex) - Lash .005"in .007"ex Timina MAP1542x12 Best all-around roadrace cam. Strong Mid & Hi-end power. Reg's hi-comp pistons & race springs Duration 274 degrees (approx.) @ .040" - L.L. .375" - L.C. 102in 103ex Timina 35btc/59abc (in); 60bbc/34 atc (ex) - Lash .010"in .012"ex **MAP1542x1** Full Road Racing profile excellent for 1/2 mile with wide smooth power for all racing applications Duration 280 degrees (approx.) @ .040" - L.L. .400" - L.C. 103in 103ex 37btc/63abc (in): 63bbc/37atc (ex) - Lash .008"in .008"ex Timina Camshaft - Norton 750/850 Brand NEW: EN40B Cores, Heavily Nitrited for longest life without worry of bad or damaged threads or worn bearing surfaces of reground cams. (Stock 850 - 268 degree @ .040 .330" lift) MAP1600-2S 750cc Combat engine. This cam had more lift and duration and virtually equal overlap, i.e. no lead. The result was more power at the top end at the expense of bottom end torgue. Recommended for 850cc Stage 1 tuning, i.e. fast road work. May be advanced up to 3 degrees to restore some lead (less peaky power curve) (uses "STD" flat tappet.) Duration 272 degrees @ .040" - L.L. .388" in .350" ex - L.C. 103in 104ex Timing 33btc/60abc (in); 59bbc/32atc (ex) - Lash .016"in .016"ex C am Lift @ TDC .168" (in) .145" (ex) **MAP1600-4S** Advanced inlet timing over 2S (exhaust is the same). Yields more midrange over 2S. Recommended for 850cc Stage 2 tuning, i.e. road racing. Stock Springs OK. (use with "STD" flat tappet. Duration 276 (in) 280 (ex) degrees (approx) @ .040" - L.L. .388" in .350 ex - L.C. 104in 106ex Timing 36btc/64abc (in); 64bbc/32atc (ex) - Lash .016" in .016" ex Cam Lift @ TDC .168" (in) .145" (ex) MAP1600-PW3 The PW3 was Peter Williams design developed from the works John Player of '73/74. Mick Hemmings says he won the race on his first outing with this cam. It is the best he has used. Stock Springs OK. (uses "STD" flat tappet. Duration 270 degrees (approx) @ .040" - L.L. .380" - L.C. 107in 107ex Timing 28btc/62abc (in); 62bbc/28atc (ex) - Lash .010" in .010" ex Cam Lift@ TDC .137" (in) .137" (ex) 65 30th Avenue North St. Petersburg, Florida 33710 Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151 7165 30th Avenue North

T.A.P. Cycle Enterprises, Inc.



BIG BORE KIT

Trident-Rocket III BIG-BORE Kit. Increases torque and hp. Extend Engine Life, Reduce Fatigue, Vastly Improves horsepower to weight ratio. A real kick in the grass! A complete kit "867" including pistons, rings, wrist pins, circlips and a new LA Sleeve spun cast iron liners. Machine work to your good core & installation is required but not included. All Made in U.S.A.

MAP7081A TRIDENT/ROCKET 867cc Street/Race Kit (Parts Only)

Includes:
American Made Spun Cast-Iron LA SLEEVES (3),
III.A.P. Cycle Light-weight 9.5-1 4032 Hi-Silicone, Low Expansion PISTONS (3)
Superior Quality Japanese RINGS for Rapid Seating, Best Sealing & Longest Life Barrel Faced 1.0mm Nitrited SteelTop ring Napier (stepped) 1.2mm iron 2nd ring 3pc Nitrited Rail 2.8mm Oil-Control rings
Light Taperd ID WristPINS (3)
SpiroLoc CLIPS (7)
Dead-Soft Copper HeadGASKET (1)
Instructions

MAP7084A"867" Piston Set (3) - 9.5-1 Pistons w/Rings, Pins & Clips 2.854" BoreMAP7085A"867" Piston Set (3) - 9.5-1 Pistons w/Rings, Pins & Clips 2.864" Bore

T.A.P. Cycle Billet Pressure Plate

NOW - Billet!



- Oversize diameter to Outbound Pressure for LESS Spring Tension thus Easier Clutch PULL
- Precision Manufactured from billet 6061 material
- "INTERNAL" Single Point" Ball Bearing "Contact Reduces Friction & Wear for more Durability. Easiest to keep "True"!!
- Lighter than stock Decreases Clutch Assembly Weight!
- An absolute Must for "Dry" Clutches to Prevent Pushrod Seizure. Works great wet too!!
- An **TH.R.P. Cycle** Original Exclusive Made entirely in the U.S.A.
- MAP2100 TRI/BSA 650/750 II's PRESSURE PLATE 3 SPRING
- MAP2102 PRESSURE PLATE ONLY 3-spring Tri T100, T120, T140 & BSA A50/A65
- (must use stock "66-on adjust ((57-2159) & nut (14-0403) not supplied. For wet applications only! **MAP2105** TRI/BSA 650/750 II's PRESSURE PLATE - 4 SPRING
- TRI 500 II's 3-Spring (not ball bearing type wet only)
- MAP2108 "DRY Only adjuster kit 3/8-24 (unf) current type
- MAP2109 "DRY Only adjuster kit 3/8-18 (unc)



Lash Caps. Light While TOUGH. Helps Prevent Mushrooming. Salvage Damaged Stem Tips. A Must for Hi-Lift Cams with Hi-Tension Springs or Poor Quality, Non-Hardened, Valve Stem Tips.

PM0816	5/16" Stem (.070" Thick .310312" Dia.) Sold Each
PM0816/4	5/16" Stem (.070" Thick .310312" Dia.) Sold per 4-Pack
PM0817/4	7mm Stem (.275258" as Required for most Titanium Valves) Sold per 4-Pack
PM0817/4E	7mm Stem (for PM Titanium Valves with .260 reduced diameter tips) Sold per 4-Pack
<u>PM08</u> 18/4	6mm Stem (.276" ID x .08" Deep x .350" OD) Required for 6mm Titanium valves. Sold per 4-Pack
NN	7165 30th Avenue North St. Petersburg, Florida 33710
	Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

T.A.P. Cycle Enterprises, Jnc.

Properly stack valve springs with our specially designed under the collar Shims. Use as necessary to return new or old springs to proper specification.

1.00" (OD) x .688" (ID) VS015 (.015" Thick)	"most Tri 650/750II's" Sold E VS030 (.030" Thick)	ach VS060	(.060" Thick)
.915" (OD) x .640" (ID) VS016 (.015" Thick)	"Universal" Sold Each VS031 (.030" Thick)	VS061	(.060" Thick)
.760" (OD) x .578" (ID) VS017 (.015" Thick)	"Universal" Sold Each VS032 (.030" Thick)	VS062	(.060" Thick)
1.25" (OD) x .680" (ID) VS018 (.015" Thick)	"Universal" Sold Each VS035 (.030" Thick)	VS065	(.060" Thick)

TT.R.P.'s Offset rocker Buttons increase lift .028" ("/R060") for more air flow & power without expensive cam changes. Always Check for Coil bind & Piston to Valve Clearance. Sold by engine set.

Not recommended for use with Racing Springs) (Note: "/020" = +.015" or "/060" = +.028" lift)

71-0070/R020	Tri 650/750 II's
71-0070/R060	Tri 650/750 II's
71-0070/R3	Tri-BSA III's '70-on
Pre '70 III's requ	ire '70-on pushrods

NOTE:						
FOR STOCK ROCKER BUTONS						
ORDER XX-XXXX (ie DELETE "/R")						

(II.A.P.'s Performance collar/keeper sets are machined from light aircraft alloy w/large keeper angles to prevent pull through. Easy way to build faster, higher revving engines without additional stress. Order PM0450 for stock dimension springs. Also available for PM0300 replacements.

PM0450	COLLARS & KEEPERS for StockTriumph 650/750 II's
PM0300C	COLLARS ONLY for PM0300 SPRINGS 4-pk
PM0300K	KEEPERS ONLY for PM0300 SPRINGS 8-pk

Eliminate friction due to rocker arm spring tension. Good for some extra "FREE" RPM

70-1574/R	Tri 650/750 II's (4)	NOTE:
70-3224/R	Tri 500 II's (4)	FOR STOCK SPRING SPACERS
70-1574/P2	Tri BSA III's (6)	ORDER XX-XXXX (ie DELETE "/R")
10-15/4/R3	I [I-BSA III S (6)	

 $(\Pi, \Lambda, \mathbf{P})$'s Allen Key Lightened Tappet Adjusters greatly simplify valve adjustment and reduce "rocking" weight to aid in building a faster, freer revving engine without stressing any engine components. Can be used with alloy tappet nuts/rocker spacers for further reducing rocker arm weight/friction. Now with highly polished tips

70-3223/A 70-1513/A 71-7045/A	Tri 500 II's All (4) Tri-BSA 650-750 II's thru '77 (CEI Thread) (4) Tri T140/TR7 '78-on (UNF Thread) (4)	
70-8783/A 71-3358* 06-7546/A *Note: These adjust	Tri T150-BSA ROCKET III's thru '73 (6) Tri T150/T160 '74-on (Pivot Ball) Not Allen (ea.) NORTON COMMANDO 750/850 (4) ters are NLA. Recommend the retrofit of choice of earlier MAP9174 thru	NOTE: FOR STOCK ADJUSTERS. XX-XXXX (ie DELETE "/A")
mapping Black Da m.a.p.'s Alloy "FREE" RPM.	Tappet Nuts lighten rocker arm weight for additional Do not overtighten.	ALLOY TAPPET NU
60-4264/A 70-0470/A 14-0402/A 14-0402/A 06-7508/A	Tri 500II (Set of 4) Tri/BSA 650-750 II's thru '77 (CEI) (Set of 4) Tri T140/TR7 '78-on (UNF) ea. Tri-BSA III's (UNF) (ea.) COMMANDO (4)	000
	7165 30th Avenue North St Petersburg Fl	orida 33710

Website: www.mapcycle.com Email: sales@mapcycle.com



Phone (727) 381-1151

VALVE SPRING SHIMS



M.A.P. Cycle Enterprises, Inc.



M.A.P. Cycle Enterprises, Jnc.

ROCKER	OIL LINES/	PARTS							
70-7576	OIL-LINE - T	ri 500 '59-74	ŀ				C		
70-4159	OIL-LINE - T	ri 650 '60-66	6 (28" LON	IG)				N/	
70-6349	OIL-LINE - T	ri 650 '67-70) (11" LON	IG)))	
71-2428	OIL-LINE - T	ri 650 '71-72	2 (26" LON	IG HOSE)				- the	
71-3550	OIL-LINE - T	ri 750 II's	-				((
71-1168	OIL-LINE - T	ri-BSA III's (71-4185 fo	or T160)				//	λ
06-5052	OIL-LINE - C	OMMANDO	(All)					١	l di
70-1335	WASHER, C	opper Sealir	na (3/8") (i	e. T120/T14	0 Rocker Sp	oindles)	2	7	5
82-1880	WASHER, C	opper Sealir	na (5/16")	(Norton OE	Aluminum w	asher 06-7	(522)	2	
	(ie. Tri 5	00 II's Top C	Dil Line Bo	Ìt(s), All Prim	nary Cover S	Stud(s) &	Í		\sim
) Norte	on Top Oil L	ine Banjo	Bolt(s) ref.06	6-7696)		a S		
97-1531	DOME-NUT	- Tri 500 Ro	cker Spind	dle (5/16") Cl	hrome				
01 .00.	(for Cad	Plated (Not	Chrome F	Plated) order	97-0400)		<u> </u>		
70-1435	DOME-NUT	- Tri 650 Ro	cker Spind	lle (3/8") Chi	rome				
21-0550	DOME-NUT	- Tri 750 II's	& Tri-BSA	A III's Rocker	Spindle (3/	8") Chrome	e		
06-7696	Banio Bolt - N	lorton							
	DULISTARIS	1			1		1 1		
		OUTER	OUTER	INNER	INNER	INNER	CENTER	CENTER	- H
MAKE/MO	DDEL:	BOLT	WASH	BOLT ¹	BOLT ²	WASH	BOLT	WASH	- H
			7					í,	
TRI 500 '5	59-68	70-3793	82-2184	70-3795	70-3794	82-2184	Y	í ——	
TRI 500 '6	09-74	70-4456°	82-2184	70-3795° 1	70-3794	82-2184			
IKI 650 t	0 00	I/U-U32/° F	182-218491	/U-1596A [%] /.	1 /0-1484	82-2184	I —		

***Note:** Use with 71-2889 Rocker Box Bolt & 60-2332 Washer

Plain Type (Non Torque Type)

3Note: Use with 21-0588 Rocker Box Bolt & 60-2332 Washer

5Note: Use with 21-2206 Rocker Box Bolt

TRI 650 '66-70

TRI 750 II's

¹Note:

²Note:

2

TRI 650 '71-72 (4-Speed)

TRI 650 '72 (5-Speed)

Note: Add "/C" for Chrome Steel, "/HD" for Heavy Stainless or "/HDP" Polished SS)

Threaded Top (Torque Type) Use with 60-4259 (Washer) & 00-0003 (CEI Nut)

70-03276

70-03276

14-02416

14-02416,8

*Note: Various Lengths: 70-1596 at 5-11/16"; 70-1596A at 5-7/8"; 71-1484 at 5-11/16"; 70-2874 at 5-7/8" UH

82-21846

82-21846

82-21846

82-21846

70-1596A^{6,7}

INNER

STUD

21-2201

70-28746,7

71-23623

71-28884

STUD

WASH

71-25989

82-2184

71-25989

71-25989

STUD

NUT

21-22045

70-47716

70-47716

14-02256

CENTER

STUD

21-2200

6

60-42476

60-42476

60-42476

PLATE

WASH

71-3553

Convert '71-72 Inner head-bolts to T140 stud/coupler for easy re-torque Order: 4) 21-2201/26 Stud 4) 21-2204 Coupling Nut

4) 21-2206 RockerBox Bolt

CENTER

NUT

21-2205

 Note: Also Available: 12-point Chrome (CB372437-12) or ARP Stainless (SB372435-12) & CW3780H (Hard-Chrome) or SW3775H (APR-SS) Washer
 Note: Heavy-Duty Large OD Washer SW3775H (.75"OD x.4"ID x.115") helps prevent OE washer crush (must trim gasket). Sold ea. Recommend using with viton o-ring #BCSOR (designed to fit under SW3775H) to seal studs from oil seepage. Sold ea.

VALVE PARTS	69	•		6
MAKE/MODEL	KEEPER	COLLAR	SPRING SET ⁷	BOTTOM CUP
BSA/Tri 250 BSA B44/B50 BSA B50/A50/A65/A70 Tri 500 II's '59-74 Tri 650 to '66 Tri 650/750 '66-on Tri/BSA III's NORTON COMMANDO	71-1166 ⁸ 71-3748 ⁹ 71-1166 ⁸ 71-3748 ⁹ 71-3748 ⁹ 71-3748 ⁹ 71-3748 ⁹ 06-7507	71-2366 70-1543 71-1165 70-3742 70-1543 70-1543 70-8720 06-7506	70-8114/8115 65-2494/2495 71-1177/2222 ¹ 70-4011/5946 70-1487/1488 ² 99-7037 ² 99-9954 06-7822/7823	68-0931 ⁵ 68-0931 68-0931 ⁵ 70-6855 70-1544 ⁶ 70-6439 ³ 70-8789 06-1399 ⁴

1Note: Use 40-0169 for A50/A65 '60-66; Use 68-0805/0930 for A50/A65 '67-70; Use 71-1177/2222 for A50/A65/A70 '71-on

²Note: 99-7037 Springs may be Used on Pre '66 650 Triumph Motors if Used with 70-6439 Bottom Cup.

³Note: T120RV & T140 '73-79 Use 71-3296: T140D & '80-on (All) Use 71-7203 Bottom Collar ⁴Note: 06-7845 Insulator, Valve Spring Cup

⁴Note: 06-7845 Insulator, Valve Spring Cup ⁵Note: Use 71-2366 for '71-on (.561" ID) Except B50

•Note: Not for 6T: for 6T use 70-5008

***Note:** For Custom Racing Springs - see page "KK"

*Note: for "Heavy Duty" use 71-1166/KPMI (8pk)

⁹Note: for "Heavy Duty" use 71-3748/KPMI (8pk)

Note:

For Hi-Performance Spring Kits See Page "KK"

7165 30th Avenue North

orth St. Petersburg, Florida 33710

Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

H.A.P. Cycle Enterprises, Inc.

	VALVES		
TRIUMPH		INTAKE	EXHAUST
1953-59	T15,T20,T20C	70-3146	70-3147
1959-68	T20,T20T,T20S,T20SL,T20S/S,T20SH,BANTAM,SUPERCUB	70-3963	70-3147
1968-71	TR25W, ALL 250	70-8112	70-7777
1946-59	5T	70-1955	70-1956
1946-50	T100	70-1955	70-1956
1951-59	T100 TR5	70-2969	70-1956
1050 66		70 2000	70 1000
1959-00	T100, T100A, T100C, T100C, T100C/C, STA	70-4012	70-4013
1907-00	1100C,1100K,1100S,11001, (1100K,1100100-01)	70-0000	70-0004
		MAP9156	MAP9158
	"Black Diamond" OS	MAP9157	MAP9159
1949-62	6T (THUNDERBIRD)	70-2903 (1.44")	70-2904 (1.44")
1954-57	T110,TR6	70-3310 (1.50")	70-2904
1958-63	T110,TR6, (6T 1963 only)	70-3310	70-3927 (1.345")
1959-63	T120 BONNEVILLE	70-3310	70-3927
1963-66	6T (THUNDERBIRD), TR6 (TROPHY) (from engine #DU5825)	70-3310	70-3927
1963-on	T120, '66-on All 650/750 II's from engine #DU5825)	70-4603 (1 60")	70-2904
	"Black Diamond"	MAP9162	MAP9166
Note:	"Black Diamond" OS	MAD0163 (4 cc)	MAD0167
MAP9166 will s	ub for 70-2903 also 70-2904 but	MAD0164	
with somewhat C		MAP9104	MAP9100
MAP9167 will s	ub for 70-3310 (req.VS060 shim)		
1069 72	TRIDENT/ROCKET (Long Stom)	70 6422	70 6422
1900-73	TRIDENT/ROCKET (Long Stelli)	70-0422	70-0423
	"Black Diamond"	MAP9170	MAP9172
	"Black Diamond" OS	MAP91/1	MAP9173
1974-76	TRIDENT/ T150/T160 (Short Stem)	71-3361	71-3362
	"Black Diamond"	MAP9174	MAP9178
	"Black Diamond" OS	MAP9175	MAP9179
BSA			
1959-66	C15,TRIALS	40-0165	40-0166
1959-66	SCRAMBLER	40-0337	40-0166
1967	B25	68-0661	68-0662
1968-72	B25 STARFIRE	68-0661	68-0662
1960-63	B40.350 STAR	41-0022 ¹	41-0023 ¹
1062-65	B405S90 & 1965-66 \/ICTOR (Round Barrel)	11-002 <u>/</u> 1	/1_0023 ¹
1067-70		41-07881	41 0020 41-0780 ¹
1070 74		71 1725	71 1726
1970-74		71-1755	7 1-17 30
1947-50		67-0029	67-0030
1947-50	STAR TWIN A7	67-0189	67-0190
1951-62	A7	67-0740	67-0741
1949-62	A10	67-0742 ¹	67-0743 ¹
1956-57	ROAD ROCKET	67-0968	67-0967
1958-59	A10S/R SUPER ROCKET	67-0968	67-0967
1960-on	A10S/R SUPER ROCKET (From #DA10R-101)	67-1551	67-0967
1962-65	A50	68-0168	68-0169
1966-70	A50	68-0661	68-0662
1962-65	A65	68-0156	68-0157
1966-72	A65 & A70	68-0665	68-0663
	"Rlack Diamond"		
	"Rlack Diamond" OS	MAP9187	MAP9189
1968-73	ROCKET III 's (See Triumph "TRIDENT/ROCKET (Long Stem)")		MAI 9109
1900-75	riumph Style Koopere		
Note. Uses I	numph Style Reepers		
NORTON	·····		
1960-67	NORTON 650 (88, 99, 650SS) VALVE STEM SEAL (Stock)	NM17221	06-7570
1964-67	NORTON 750 ATLAS Order 06-2726	06-7884	06-7570
1968-on	NORTON COMMANDO (all)	06-4034	06-5115
	"Black Diamond"	MAP9194 (1.50")	MAP9198 (1.30")
	"Black Diamond" OS	MAP9195 (1.56")	MAP9199 (1.36")
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	Website: www.mapcycle.com Email: sales@mapcycle.com Pho	ne (727) 381-1151	3

M.A.P. Cycle Enterprises, Inc.

CYLINDERS & BASE HARDWARE					C		8	٨
MAKE/MODEL:	CYL- INDER	OUTER STUD	INNER STUD	DOWEL STUD	DOWEL	OUTER NUT	INNER NUT	WASH
Tri 500 II's '59-68 Tri 500 II's '69-74 Tri 650 Pre-Unit Tri 650 '63-68½ ¹ Tri 650 '68½-72 ½ (4-spd) Tri 650 '71½-72 (5-spd) Tri 750 II's '73-on	70-9719 70-9719 70-3332 70-6304 70-6304 71-4005 ²	70-3820 21-1921 70-0672 70-0672 21-1865 21-1865 71-3013	70-3820 21-1921 70-0672 70-0672 21-1865 21-1865 21-1865	70-3819 21-1922 70-3523 70-3523 21-1865 21-1865 21-1865	70-8751 70-8751 70-8751 70-8751 70-8751 70-8751 70-8751 70-8751	37-0076 21-0692 ³ PO172A PO172A 21-0692 ³ 21-0692 ³ 21-2177 ³	37-0076 21-0692 ³ 37-0076 37-0076 21-0692 ³ 21-0692 ³ 21-0692 ³	GS308 70-3446 ⁵
Tri/BSA 750 III's (All) COMMANDO 750 COMMANDO 850	71-3935 06-1705 06-5074	STEPPED 21-1912 06-2640 06-3824	STD 21-1931 06-2639 06-2639	70-8738	70-8751	21-0692 ³ 06-2650 06-3825	21-0692 ³ 06-2651 06-2651	$\begin{array}{c} 70\text{-}8770\\ \text{NOTE}^4\\ \text{NOTE}^4 \end{array}$

¹NOTE: Use 70-4546 for cylinder without tappet oil feed (Note: 70-6304 cylinder will interchange) ²NOTE: Early 75mm (720cc) cylinder NLA - Use current cylinder #71-4005 (750cc) with new pistons. ³NOTE: Chrome small head 12-point nuts add a nice touch - Order Part #CN12375 (replaces 21-0692) or #CN12312 (replaces 21-2177) sold ea. 4NOTE: Use washer 01-6213 for 06-2640 stud - Use washer 60-2330 for 06-2639 stud.

⁵NOTE: Use washer on outer 4 studs only

	PISTONS ¹	(HEPOLITE w/Rings, Pins, Clips)	RINGS* (⊢	IEPOLITE)
	11412 19233²/KR	BSA A10 BSA A65 (ALL)	.R3650 .R17350 ^{3,4,5}	BSA A10 BSA A65 (All)
	15123	Tri 500 II's thru '67	.R13570 ^{3,4,5}	Tri 500 II's (All)
	18786 ²	Tri 500 II's '67-on	.R13570 ^{3,4,5}	Tri 500 II's (All)
	1/844	1 ri 650 '58-on	.R11050 ^{4,3}	1 fi 650 (All)
1	19255- 19916 ²	Tri/BSA III's (All)	.R26490 ^{4,5}	Tri/BSA III's (All)
)	19145 ²	NORTON 750 COMMANDO	.R26260 ^{4,5}	COMMANDO 750
-	19342²	NORTON 850 COMMANDO	.R26730⁴,⁵	COMMANDO 850

NOTE: All pistons/rings listed are Hepolite and sold in engine sets. For oversize Bores add "/XXX" (ie .020,.030,.040,.060,.080) to part #) For M.A.P. Forged pistons - see pages EE Thru GG

***NOTE**: For Hi-Quality Economy add "/E" to part # ("/E" piston sets do NOT include Rings - Rings Must be Ordered Separately)

3NOTE: Available in Ultra Hi-Quality Japanese Riken Rings (Recommended) - add "/E" to part #

*NOTE: Available in Hastings - add "/H" to part #; in Taiwan Quality - add "/T" to part #; in USA made Quality Rings - add "/G" to part #

PISTON CIRCLIPS

	70-6869 71-3700 70-6840 70-6869 71-3700 70-6840	BSA B25 BSA B33/B34/B40/B44/B50/A10/A50/A65/A70 BSA ROCKET III's Tri 250 & Tri 500/650 II's Tri 750 II's Tri 750 III's & NORTON ATLAS/COMMANDO
G	PISTON PINS (N 70-6861 70-6863 71-3354 70-6836	Vristpins) Tri 500 II's & Early 650's (2.155" Long) Tri 650 Late (2.40" Long) Tri 750 II's & BSA A50/A65/A70 Tri & BSA III's
	SMALL END BL 40-0916 66-0492 67-0393 67-0298 67-0298/KPMI 67-0298/002/KPM 70-1762 70-4003 70-1511 70-1511/MAP	JSHINGS (I.D. NOT Pre-Finished unless indicated) BSA 250 '67-71 BSA B40/B44/B50 BSA A7 BSA A10/A50/A65 BSA A10/A50/A65 - HvyDty KPMI Brand BSA A10/A50/A65 - HvyDty KPMI Brand Tri T15/T20 Tri 250 & Tri 500 II's Tri 650 Tri 650 Carefully "Pre-Reamed" for EASIEST Installation Remove old then install New Bush - Great for in-engine installations!



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TAPPET BLOCKS

0-3736	Tri 500 '59-63
0-4676	Tri 500 '64-69
0-9352	Tri 500 '70-74
'0-1477	Tri 650 thru '65
0-4676	Tri 650 '66-68½ (Intake)
	.925" at Sealing Ring
'0-5861	Tri 650 '66-68½ (Exhaust)
	.925" at Sealing Ring
'0-9352	Tri 650/750 II's '68½-79 (Intake)
	.990" at Sealing O'Ring Inside Pushrod Tube
'0-9353	Tri 650/750 II's '68½-79 (Exhaust)
	.990" at Sealing O'Ring Inside Pushrod Tube
'1-7195	Tri T140 '80-on (Intake & Exhaust)
'1-3211	Tri/BSA III's Timing Side
'1-3212	Tri/BSA III's Drive Side

MISC TAPPET BLOCK PARTS

97-0200 BOLT, Tappet Block Locking - Tri 500/650/750 II's WASHER, Tappet Block Locking - Tri thru '69 (STAR) WASHER, Tappet Block Locking - Tri '70-on (Copper) 70-1612 70-2441 PIN, Tappet Block Locking (Alloy Dowel) - Tri/BSA III's 70-9465 70-7563 O'RING - Tri II's (Viton Hi-Temp)(as Required) O'RING - Tri/BSÀ III's 70-6560

TAPPETS*

	-	Nata, TADDETO			
70-7739	Tri/BSA 250/441/500 '68-70	R = 1-1/8 Radius			
71-2513	Tri/BSA 250/441/500 '71-on	Non "R" = $3/4$ " Radius			
70-3753	Tri 500 '59-66 (non "R")	BSA A50/A65 = 1-1/4" Radius			
70-4040	Tri 500 '67-'74 (not TR5T '73-74)("	'R")			
70-3753	Tri 500 TR5T '73-74 (non "R")	,			
70-3059	Tri 650 to '65 (Intake & Exhaust) (r	non "R")			
70-3059	Tri 650 6T/TRô '66 (Intake only) (n	ion "R")			
70-8895	Tri 650 '66 (Exhaust only) (non "R'	")			
70-8801	Tri 650 T120 '66 (Exhaust only) ("I	Ź")			
70-3059/R	Tri 650 '67-72 (Intake) ("R") '66 T1	20 Only Intake			
70-3059	Tri 750II's '73-79 (Intake) (non "R")			
70-8801	Tri 650/750 II's '67-79 (Exhaust) ("	R")			
71-7008	Tri T140 Electric Start (Intake & Ex	khaust) (non "R")			
71-3213	Tri/BSA III's '68-74 (Intake & Exha	ust) ("R")			
71-3976	Tri T160 (Intake & Exhaust) ("R")				
06-7820	Norton Commando (pairs only)				
Note: Reground Tappets Available (inquire)					

CRANKSHAFT FLYWHEEL BOLTS

BSA A50/A65 (2) 68-0580 BSA A50/A65 Sludge Tube Locator (1) 68-0581 70-3907 Tri 650 '63-65 70-6328 Tri 650 '66-68 70-3907 Tri 650 '69-70 (For Early '69 Light Flywheel Use 70-6328) 71-2601* Tri 650 '71-72 (Non Metric) 71-2799* Tri 650 '72 (Metric) 71-3552* Tri 750 II's '73-on *NOTE: Uses 71-1003 Base Washer

CRANKSHAFT SLUDGE TUBES

70-3903 BSA A50/A65 70-3999 Tri 500 II's '59-on 70-3903 Tri 650/750 II's (All Except TSS")

CRANKSHAFT SLUDGE TUBE PLUGS

67-1211 BSA A50/65 '63-65 MAP3260 BSA A50/65 '66-on - Allen (HEX) Type MAP3265 Tri 500 II's '59-74 - Allen (HEX) Type MAP3260 Tri 650 thru '71 - Allen (HEX) Type MAP3261 Tri 650 '72 (only) & 750 II's (ÁLĹ - Not TSS) - Allen (HEX) Type

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	r. cyci		JCJ, JIIC.		
MAIN BEARINGS	6				
	LH LH	ROD	RH	RH	
MAKE/MODEL:	MAIN	BEARING	MAIN	BUSH	
BSA 250 '68-69 BSA 250 '70-on	70-8003 70-9974	B1071M B1071M	70-8003 70-8003		
BSA 441/500 ¹	24-0724		24-0732		
BSA A7/A10	67-0670	B2046M ²		67-0790 ³	
BSA A50/A65 '62-66	68-0625	B2046M		68-0336 ^{3,5,6}	
BSA A50/A65/A70 '67-on	68-0625	B2046M		68-0657 ^{3,5,6,7}	
Tri 250 '68-69	70-8003	B1071M	70-8003		
Tri 250 '70-on	70-9974	B1071M	70-8003		
Tri 500 Pre-Unit '54-58	70-1591	B2026M	70-1591		
Tri 500 '59-68	70-3835	B2047M		70-4322 ³	
Tri 500 '69-74	70-9493	B2047M	70-9494		
Tri 650 Pre-Unit '49-53	70-1591	B2026M	70-2877		
Tri 650 Pre-Unit '54-65	70-1591	B2026M	70-1591		
Tri 650 '66-72 (4-Speed)	70-2879	B2026M	70-1591		
Tri 650/75011 '72-79 (5 Speed)	70-2879	B2026M	70-3835		
Tri 750 II's '80-on	70-2879	B2026M	60-7362		
Tri-BSA III's⁴	70-1591	B3053LC	70-8780		
NORTON thru '71	70-3835	B2101LC	06-4118		
NORTON '72-on	06-4118	B2101LC	06-4118		
*NOTE: BSA/Tri 500 Singles ALSO Use 6 *NOTE: Pre '56 BSA A7/A10 Use B2024I *NOTE: Specify Bush Size IF Not STD (A *NOTE: Tri/BSA III's Use M2098LC Center *NOTE: Use SHIM SET #68-0635/SET for	is-5883 as an Outer Driv .C (1.46" Pin Diameter) vailable in "/010", "/020" er Plain Main Bearings (r BSA A65 crank to mai	/e Side Ball Bearing or B2046M (1.687" Pin Diam ', "/030" - see side bar for A6 Available in "/010", "/020", "/(n bush shimming (Inc010,.0	eter.) Rod Bearings ⁶ N 5 part numbers) 68 030", "/040") 68 120 &.030" shims) 68	ote (cont.): 60/65 Oversizes to '66 -0334 +.010 -0332 +.020 -0335 +.030	
MISC CRANKCASE ITEMS			68 A5	-0335/040 +.040 50/A65 Oversizes '66-on	
68-0022 CAM BUSH - BSA A5	0/A65 DS (Drive Sid	e)	68	-0647 +.010	
68-0025 CAM BUSH - BSA A5	0/A65 TS (Timing Si	de)	68	-0648 + .020	
70-3824 CAM BUSH - Tri 500	Intake ('59-69)			-0648/040 +.040	
70-3823 CAM BUSH - I I 500	Exhaust			ote (cont.):	
70-3823 CANI BUSH - 111 300	Intake 70-00) Intake (Drive Side) ti	oru '60		-0685 Crank Thrust Washer	
71-0287 * CAM BUSH - Tri 650	750 II's Intaka DS (Ilu 09)rive Side) '70-on		-0685/KPMI HvyDty KPMI	
71-0287 * CAM BUSH - Tri 650/	750 II's Exhaust (DS	() Drive Side (all)			
71-0286 * CAM BUSH - Tri 650/	750 II's TS (Timing S	Side) Flanged (All)			
06-3020 CAM BUSH - NORTO	N COMMANDO TS	Timing Side)			
06-3021 CAM BUSH - NORTO	N COMMANDO DS	(Drive Side)			
*Note: Add "/S" for special Ampco	45 type Heavy Duty	Material (less \$\$'s?)			
70-5316 ROTARY BREATHER	2 - Tri 500/650 II'e th	ru '69	9		
70-2256 SPRING Rotary Brea	ather - Tri 500/650 II'	s thru '69	5 00		
70-4700 THIMBLE. Tach Drive	e - Tri 500/650 II's thr	ru '69			
70-9988 ADAPTER, Tach Driv	e - Tri 650/750 II's ("	71-on)			
70-5232 SCREW, Case Mouth	- Tri 650 '63-68 (No	ote: '69-on Use 21-1873)	- Frank)	

SUMP SCREEN - Tri 650/750 II's (Oil-in-Frame) SUMP SCREEN - Tri 650/750 II's has Sludge Trap Built-in (Oil-in-Frame) 84-0027 MAP6040 SUMP PLATE ALLOY (with MAGNET) - Tri Pre-Unit SUMP PLUG with Screen - Tri 650/750 II's '63-681/2 70-5312 SUMP PLUG with Screen - Tri 650/750 II's '681/2-on 70-9336

SUMP PLUG (MAGNETIC) - COMMANDO

WASHER, Sump Plug (Fiber)- Tri 500 II's

O'RING, Body to Case (T140 '77-on)

SUMP SCREEN - BSA/Tri 250/441

SUMP SCREEN - Tri 500 '59-on

SUMP PLUG - COMMANDO

PRESSURE RELEASE VALVE Complete (All)

SUMP SCREEN & PLATE - BSA/Tri 500 I's

SUMP SCREEN - Tri 500/650 Pre-Unit (All)

SUMP SCREEN - BSA A50/A65 (All Unit)

GASKET, Cap to Body

GASKET, Body to Case

71-3447

70-8754

70-1670

60-3355

70-9979

71-2933

71-1126

70-3722

70-0529

83-4783

06-7676

06-4188

70-1577

70-5315 70-8782 06-7680 06-2624





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WASHER, Sump Plug (Fiber)- COMMANDO 7165 30th Avenue North

WASHER, Sump Plug - Tri 650/750 II's thru '73 (Copper) WASHER, Sump Plug - Tri 650/750 II's '74-on (Rubber O'Ring) WASHER, Sump Plug (Copper)- COMMANDO

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— (II.A.P.	Cyc	ie Enrerprises, Jnc. 🔤 🚽
	MAGNET 67-0296 06-7705 06-7689 06-4647	O/CAM/GENERATOR CHAIN CAM/GENERATOR CHAIN, BSA A7/A10 (52-Link) MAGNETO CHAIN, NORTON 750 ATLAS, G15, P11 (42-Link) CAM CHAIN, NORTON (38 Link) All ADJUSTER, Cam Chain - COMMANDO (All) (was 06-1064)
	TIMING (70-3072 70-9421 71-7317 70-0495 00-0005 70-3732 21-1906 70-1612 70-3887	COVEROIL PUMP - Tri Pre-UnitT (All)OIL PUMP - Tri 500/650/750 (Unit Construction thru '79)OIL PUMP - Tri 750 '80-on (Will Fit Earlier w/Slight Cover Grinding*)BLOCK, Oil Pump - Tri (All)*Req's:NUT, Oil Pump - Tri Pre-Unit1) 14-7007 - screwNUT, Oil Pump - Tri 500/650 thru '68 (Unit)1) 14-7008 - screwNUT, Oil Pump - Tri 500/650 thru '68 (Unit)1) 14-7008 - screwNUT, Oil Pump - Tri 500/650/750 II's '69-792) 60-2417 - washerWASHER, Oil Pump Nut - Tri Pre-UnitWASHER, Oil Pump Nut - Tri thru '79 (All Unit)
	60-2133 60-3719 71-2930	SWITCH, Oil Pressure - Tri thru '72 (Tapered Thread) (70-9526 Blanking Plug) SWITCH, Oil Pressure - Tri '73-on (Straight Thread - use w/70-1335) COVER Oil Pressure Switch (All)
	70-5451 70-8828 14-0208 14-0208 06-0720 70-8163	A-A BOLT - Tri 500/650 thru '67 A-A BOLT - Tri 500/650/750 II's '68 thru 70 A-A BOLT - Tri 500/650/750 II's '71-on A-A BOLT - Tri/BSA III's A-A BOLT - NORTON COMMANDO WASHER, A-A Bolt (All)
(i) (97-3894 70-4747 70-7680 70-6521 06-1281 70-6559	SCREW, Point Plate Hold Down - BSA A50/A60/A70 PILLAR BOLT - Tri 500/650 thru '67 PILLAR BOLT - Tri 500/650/750 II's '68-on PILLAR BOLT - Tri/BSA III's PILLAR BOLT - NORTON COMMANDO WASHER, Pillar Bolt (All)
C O COMB	70-4571 70-8737 70-6519 06-1087 82-4715 70-7354 21-5375 82-4715 06-1105 60-4256	POINT COVER - Tri 500/650 thru '67 POINT COVER - Tri 250/500/650/750 '68-on POINT COVER - Tri/BSA III's POINT COVER - NORTON COMMANDO SCREW, Point Cover - Tri 250/500/650 thru '67 SCREW, Point Cover - Tri 250/500/650/750 II's '68-on SCREW, Point Cover - BSA A50/A65/A70 SCREW, Point Cover - Tri/BSA III's SCREW, Point Cover - NORTON COMMANDO WASHER, Point Cover Screw (All)
TRUMPLE NDS work NDS	70-2910 70-2876 70-1595 70-1678 70-2909 70-4016 70-4016/B 70-8762 MAP2087 60-0208-5	PATENT PLATE Tri "TIGER T110" PATENT PLATE Tri "TROPHY" PATENT PLATE Tri "SPEED TWIN" PATENT PLATE Tri "TIGER 100" PATENT PLATE Tri "650 Pre-Unit Twin" PATENT PLATE Tri 650/750 II's Unit PATENT PLATE Tri 650 Pre-Unit (Brass) PATENT PLATE Tri 150/T160 RIVETS, Patent Plate (Zinc) RIVET, Patent Plate (Brass)
	70-1558 70-1580	KEY, Camgear - Triumph (all) KEY, Crankshaft Pinion - Triumph (all)
	70-2451 70-2226 188375 111704 70-4707	GEAR, Generator - Tri Pre-Unit WASHER (Cork), Generator to Crankcase - Tri Pre-Unit LOCKTAB, Generator Gear (LUCAS) BOLT, Generator Gear (LUCAS) GROMMET, Point Lead (All)
Langer		SPROCKETS
	68-0205 ^{°°} 70-4141 70-5450* 71-3542* 70-6890*	DSA A30/A05 Tri 500 '59-on Tri 650 '63-70 (Note: '71-72 Use 71-2662 w/71-2663 Spacer) Tri 750 II's '73-on (29 Tooth Triplex) Tri -BSA III's '68-74 (28 Tooth) Tri T460 (22 Tooth)

*NOTE: CRA 7165 30th Avenue North

(Canadan)

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 71-3541*
 Tri T160 (23 Tooth)

 06-0383
 NORTON COMMANDO

 *NOTE: CRANK SHIMS 70-8038 (.010): 70-8039 (.015): 71-2660 (.030)

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CLUTCH	PRESSURE PLATE & MISC. PARTS	
06-0751	CIRCLIP, Diaphram - NORTON COMMANDO	(F)
57-2526	NUT, Spring - Tri/BSA I's (3-4 Spring Pressure Plates)	
57-2727 57-1560 57-1830 57-1830/R 57-4644 57-3718 06-0770	SPRING, Clutch - Tri/BSA I's SPRING, Clutch - Tri/BSA II's (4-SPRING) SPRING, Clutch - Tri/BSA 500/650/750 II's (3-Spring) SPRING, Clutch - Tri/BSA II's HD/RACE (Stiffer than 57-4644) SPRING, Clutch - Tri 750 II's (Slightly Stiffer than 57-1830) SPRING, Clutch - Tri/BSA III's DIAPHRAM, Clutch - NORTON COMMANDO	
57-1927 57-1931	CUP, Spring - Tri/BSA I's CUP, Spring - Tri/BSA II's (ALL 3-4 SPRING PRESSURE PLATES)	
42-3189 68-3217 57-4754 57-4754	PIN, Spring Retaining - BSA A7/A10 (4-Spring Type) PIN, Spring Retaining - BSA II's '62 thru 65 PIN, Spring Retaining - BSA II's '66-on PIN, Spring Retaining - Tri 500/650/750 II's '47-on	
65-3403 57-2729 57-0413 57-2729 57-2159 60-4264 14-0403 60-4264 60-4264 14-0403	ADJUSTER, Pressure Plate - BSA A7/A10/B31/B34/M20/M21 ADJUSTER, Pressure Plate - Tri I's (5/8" Long) & BSA I's & II's thru '66 (Unit) ADJUSTER, Clutch Arm - Tri 500/650 Pre-Unit ADJUSTER, Pressure Plate - Tri II's to '65 (Unit) (5/8" LONG) ADJUSTER, Pressure Plate - Tri 500/650/750 II's '66-on & BSA A50/A65 '67-on NUT, Clutch Adjuster Locking - BSA I's & II's thru '66 NUT, Clutch Adjuster Locking - BSA II's '67-on NUT, Clutch Adjuster Locking - Tri 500 II's '59 thru '65 NUT, Clutch Adjuster Locking - Tri 650 '63-65 NUT, Clutch Adjuster Locking - Tri 500/650/750 II's '66-on	
68-3226 57-0986 57-4590 57-3715 06-0745 06-3768 06-0751	PRESSURE PLATE - BSA A50/A65 4-Spring '62 thru65 PRESSURE PLATE - Tri 4-Spring PRESSURE PLATE - 3-Spring Twins '68-on (Latest Version) 63-on w/latest adj& nut) PRESSURE PLATE - Tri/BSA III's PRESSURE PLATE - NORTON (750 to #212278) PRESSURE PLATE - NORTON (850 from #212278) CIRCLIP, Diaphram Retaining (NORTON)	
57-3705 57-3720 57-3719	END COVER, Clutch Pack - Tri/BSA III's TAB WASHER, End Cover - Tri/BSA III's SCREW, End Cover - Tri/BSA III's	
57-2733 68-3229 57-1551 57-1552 57-1970 57-1736 04-0607 04-0084	PUSHROD - Tri/BSA I's '65-on PUSHROD - BSA A50/A65 (11.125") PUSHROD - Tri Pre-Unit (13-3/16" Long) PUSHROD - Tri 500/650 '47-62 (12-1/4" Long) PUSHROD - Tri 500 II's '59-74 (11-5/8" Long) PUSHROD - Tri 650/750 II's '63-on (for Heavy Duty ADD "/S") PUSHROD - NORTON ATLAS '63 thru 68 PUSHROD - NORTON COMMANDO '69-on (1/4 x 9-11/16)	
57-1391 57-3988	PUSHROD BUSH - Tri 500 '59-on & Tri/BSA I's (For those with OE Bush) PUSHROD BUSH - Tri 500/650/750 II's '47-on & BSA A50/A65 '62-on	
57-2552 57-3717 57-3647	PULLROD - Tri/BSA III's BEARING, Pullrod - Tri/BSA III's BEARING, Pullrod Ramp - Tri/BSA III's	
MAINSH	AFT HARDWARE (CLUTCH SIDE)	
68-3300 57-1047* 21-0586* 14-1307	NUT, Mainshaft - BSA A50/A65/A70 '66-on (68-3030 - '62 thru 65) NUT, Mainshaft - Tri 650 thru '67 (Tri 500 II's thru '66 (Unit)) NUT, Mainshaft - Tri 650/750 II's '68-79 (Tri 500 II's '67-on) NUT, Mainshaft - Tri TSS & '80-on	Ŵ
68-3025 68-3169 57-1045* 57-4794* 21-7073	WASHER, Mainshaft Nut - BSA A50/A65 '62 thru 65 WASHER, Mainshaft Nut - BSA A50/A65 '66-on WASHER, Mainshaft Nut - Tri 650 to '68 (Tri 500 II's thru '66 (Unit)) WASHER, Mainshaft Nut - Tri 650/750 II's '68 thru 79 (Tri 500 II's '67-on) WASHER, Mainshaft Nut - Tri TSS & '80-on	
06-3459 57-1046* 06-0752 06-0894 06-0895 06-0747 *NOTE: TRI 5	LOCKTAB, Mainshaft Nut - Commando LOCKTAB, Mainshaft Nut - Tri 650 thru '67 &500 II's thru '66)(A50/A65 '62 thru 65) C-clip, Mainshaft - Clutch hub stop - Commando SHIM, C-clip (.032") - Commando SHIM, C-clip (.048") - Commando CUP, Shim Retaining - Commando 500 & 650 CHANGE in DIFFERENT Years (Note: TSS & '80-on See Footnote # 3 (top) Page 15	
	7165 30th Avenue North St. Petersburg, Flor	ida 33710 👥 9

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M.A.P. Cycle Enterprises, Inc.

The *III.R.P. Cycle* Exclusive "NO Slip - NO Drag"TM Clutch Pack*

After years of research T.A.P. CYCLE has created the PERFECT Clutch Pack to help Eliminate Creep, Missed Shifts, and Harsh Grinding while shifting that will eventually damage your transmission. The cause is simply a clutch that does not completely dissengage. Thick oil, especially in '70-on models that use engine oil in the primary, cause the plates to stick together that never completely release (try pulling an oily plate from a piece of glass!). Never to be as good as the "DRY" clutch of the TI.A.P. CYCLE array of Belt drives, but a Great Clutch kit for all "wet" Clutch BSA/TRIUMPH Twins. Made even better as a result of TAP's newly acquired plain plate tooling. A unique 6" OD, Tight Tangs and Most importantly Perfectly Flat stamping makes for the best Clutch pack. DON"T by fooled by immitators. We warranty this kit to be exactly as described, as such, it is sold Only in Complete Sets of 12 or 14 plates to assure your complete satisfaction. **Enjoy Riding Again!** Be sure to **Order MAP2150** where available (see below)

Please Note: For any Clutch Disc to Work Properly the Chainwheel Keyways must NOT be Notched!

CLUTCH PLATES (BONDED) ea.

NEW DESIGN + NEW MATERIAL = "THE BEST"

BSA A7/A10 '49-53* (.58" Tang) 67-3242* 65-3857* BSA A7/A10 '54-62* (6-Spring 375" Tang) Uses 5 Suggest* MAP2150 - "NO Slip - NO Drag"TM (12 piece Set) 57-1362 BSA A50/A65 '62-on 57-1503 Tri TIGER CUB '58 thru '67 57-2726 Tri 250 & BSA I's Tri 500/650 II's '47 - '72 (3 or 4-Spring) Suggest* MAP2150 - "NO Slip - NO Drag"™ (12 piece Set) 57-1362 Suggest* MAP2150 - "NO Slip - NO Drag"TM (12 piece Set) 57-4763 Tri 750 II's '73-on 57-3709 Tri/BSA III's 04-3192/3/B NORTON Atlas (inc. 5 Full & 1 Half Bonded Barnett Plates) NORTON COMMANDO 750 ea. - Uses 4 06-1339 06-3741 NORTON COMMANDO 850 ea. - Uses 5

*NOTE: BSA A7/A10 Uses:

					65
57-1362 Bo	nded(5)&57-1	363 Plain	(6)Plates	57
After #'s:	CA7	8623	DA10	13298	57
	CA7S	S 122	DA10R	2443	57
	011/2	, S 122	DITION	2110	06



*New for 2018 !!

"Never Slip - Never Drag "TM 14-plate Clutch Pack for Triumph/BSA (fits all "unit construction" big twins) MAP2152 14-Plate conversion kit MAP2151 13-Plate conv. kit "E" model Call or See Website for current information

CLUTCH PLATES (PLAIN) ea.

- 5-3824* BSA A7/A10 6-Spring Clutch Uses 5* -1315 Tri TIGER CUB '58-62 7-2725 Tri 250 & BSA I's (Steel) Tri 500/650/750 II's '47-on & BSA A50/A65 '66-on 7-1363
- 6-0746 NORTON COMMANDO

CLUTCH SHOCK FRONT PLATE/SCREWS (ea.)

FRONTPLATE - BSA A50/A65 3-Spring 57-1724 57-1044 FRONTPLATE - Tri 4-Spring & BSA A50/A65 '62-65 (4-Spring) FRONTPLATE - Tri & BSA A50/A65 3-Spring (for Countersunk Screws) FRONTPLATE - Tri/BSA A50/A65 3-Spring (for thru Bolts) 57-1724 57-4437 SCREW, FrontPlate - BSA A50/A65 '62-65 (Unit)) 68-3215 57-1040 SCREW, FrontPlate - Tri 500/650 '59-'69 & BSA A50/A65 '66-69 21-2157 BOLT, BackPlate (Thru-Bolt Type) - Tri/BSA '70-on 57-1150 SCREW, FrontPlate - Tri/BSA III's '68-69 SCREW, FrontPlate - Tri/BSA III's '70-76 57-3940 57-3941 TAB WASHER, Plate - Tri/BSA III's

CUSH RUBBERS (SHOCK HOUSING/REAR WHEEL) ea.

68-3238 BSA A50/A65 '62-65 Large (reg's 4) 68-3239 BSA A50/A65 '62-65 Small (reg's 4) 57-2723 Tri/BSA I's (req's 8) 57-1472 Tri 500/650 II's '53-63 4-Spring Type Large (req's 4) 57-1473 Tri 500/650 II's '53-63 4-Spring Type Small (reg's 4) Tri II's '64-on & BSA A50/A65/A70 '66-on 3-Spring Large (req's 3) 57-1722 Tri II's '64-on & BSA A50/A65/A70 '66-on 3-Spring Small (req's 3) 57-1723 Tri T150 '69-70 (req's 12) (Converts '69 to '70 Style) 57-1723 57-4324 Tri T150 '71-74 (reg's 12) Tri T160 (reg's 12) 57-5001 COMMANDO 750 REAR WHEEL THICK RUBBER (reg's 3) 06-2074 06-2075 COMMANDO 750 REAR WHEEL THIN RUBBER (reg's 3) 06-4811 COMMANDO 850 MKIII REAR WHEEL THICK RUBBER (req's 5) 06-4812 COMMANDO 850 MKIII REAR WHEEL THIN RUBBER (reg's 5)

CLUTCH SHOCK SPIDER 57-2715 Tri/BSA I's For SPROCKETS 68-3219 BSA II's 4-Spring '62-65 See Page 14, 16 & 64 57-2538 BSA II's 3-Spring (All) Tri 500/650 II's 4-Spring (Also Race Applications) 57-1740 Tri 500/650 II's 3-Spring (for those with a Lock Tab) 57-1721 57-2538 Tri 500/650 II's 3-Spring (for those using a Lock Nut) 57-4636 Tri T140 57-2471* Tri/BSA III's '68-70 57-4323* Tri/BSA III's '71-72 Tri/BSA III's '73-75 57-4621 * Requires Spacer 57-2479. If Using 57-4621 Spider Discard OE Spacer 57-4917 Tri T160 '75-76 St. Petersburg, Florida 33710

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	— M.A.P. Cycle Enterprises, Inc. ———
PRIMARY	CHAIN TENSIONER PADS
70-8184	BSA B25/B44/B50
57-3610	BSA A50/A65/A70 BSA III's thru "73 (Wide Top Blade)
70-6061	BSA III's thru "73 (Narrow Bottom Blade)
70-8184	Tri 250 '67-on
70-4149	Tri 500 II S '59 thru '65 Tri 500 II's '66-on
70-6061	Tri 650 '63-on
70-5085	Tri 750 II's '73-on
57-3610*	Tri III's thru "73 (Wide Lop Blade)
57-4597	Tri III's "74-on
57-4937	Tri T160
	TENSIONED DAD TIE DODS & DADTS
68-0249	BUTTON, Adjusting - BSA A50/A65
71-3221	BUTTON, Adjusting - T150/T160 '74-on
70-4152	TIE ROD - Tri 500/650/750 II's '63 thru '79
57-3983	TIE ROD - Tri III's '68 thru '73
70-9703*	NUT, Adjuster - Tri 500/650/750 II's '63 thru '79
57-3617	NUT, Adjuster - Tri 750 III's '69 thru '73
71-4251	SCREW, Adjuster (Houses Button) - Tri III's '74-on
14-1904	LOCK NUT, Adjuster Screw - Tri III's '74-on
70-3221	WASHER, Adjuster Cover - Tri-BSA
70-5976	ABUTMENT (Forked) Presses into Case) - Tri 500/650/750 II's (All)
70-9256	ABUTMENT (Forked) Presses into Case) - Tri/BSA III's '68 thru '73
70-5977	TRUNNION (Fits into Blade) - Tri 500/650II's
57-3986	EYEBOLT - Tri/BSA III's '68 thru '73
14-1901	NUT, Eyebolt - Tri/BSA III's
70-9257	WASHER, Saddle (Rear) - Tri/BSA III's '68 thru '73 WASHER, Saddle (Front) - Tri/BSA III's '68 thru '73
70-5977	TRUNNION (Fits into Blade) Tri/BSA III's '68 thru '73
* NOTE : 1980-0	n T140's Use 21-7064 Adj BOLT: 14-0401 Adj NUT: 60-7268 Adj WASHER: 71-7259 Inspec. PLUG: 70-6299 Plug O'RING
70-4154	DRAIN PLUG - Tri 500 II's '59 thru '68 DRAIN PLUG - Tri 500 II's '69 thru '74
70-6347	DRAIN PLOG - Tri 500 frs 69 tinu 74 DRAIN PLUG - Tri 650 '63 thru '68
57-2259	DRAIN PLUG - Tri 650/750 II's '69 thru 78
57-1738	WASHER (FIBER), Drain Plug
70-0299	
14-6101	LEVEL PLOG - Tri 63 (Tru 68 (CEI) LEVEL PLUG - Tri 69 thru 76 (UNF)
14-7017	LEVEL PLUG - Tri 750 II's '76-on
70-2441	WASHER, Level Plug - TRI thru '75
70-6299	
PRIMARY	MISC.
70-8785	LOCK TAB, Engine Sprocket - Tri/BSA III's
29-2023	NUT. Rotor - BSA A50/A65
10-3977	NUT, Kotor - Tri 500/650 '58 thru '72' (.480" snout x .765" OAL)
06-0387	NUT, Rotor - NORTON
68-0324	WASHER, Lock Tab (Between Lock-Tab & Nut) - BSA A50/A65
70-8043	LOCK TAB, Rotor Nut - BSA A50/A65
/0-3975	LOCK IAB, Rotor Nut - Tri 500/650/750 II's & III's '58 thru '77
06-7894	LOCK WASHER, Rotor Nut - Norton Commando
70-3114	STUD, Rotor - Tri 500/650 '58 thru '72 (1.4" OAL .60/.50" thread CEI (26tpi)) STUD, Rotor - Tri 750 II's '73-on (1.5" OAL 73/ 45" thread 7/16-20)
54202299	ROTOR, Alternator (Internally Welded for Strength) - All Tri/BSA/Norton (Excellent Aftermarket - ADD "/P")
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60-4253	WOODRUF KEY, Alternator Rotor - BSA A50/A65
06-5718	WOODRUF KEY, Alternator Rotor - NORTON
70-3851	WOODRUF KEY, Alternator Rotor - Tri 500 II's '59-on
70-3974	WOODRUF KEY, Alternator Rotor - Tri 650 II's '70-on
71-0082	WOODRUF KEY, Alternator Rotor - Tri 650/750 II's '70-on
60-4253	WOODRUF KEY, Alternator Rotor - Tri/BSA III's
71-2663	SPACER, Alternator/Engine Sprocket - Tri 500/650
70-4573	SPACER, Alternator/Engine Sprocket - Tri 650 63-72
70-4912	SPACER, Alternator/Engine Sprocket - Tri/BSA (All E.T)
71-3544	SPACER, Alternator/Engine Sprocket - Tri T140
06-0402	SPACER, Alternator/Engine Sprocket - NORTON
68-0205	SPROCKET, Engine BSA A50/A65
70-4141	SPROCKET, Engine Tri 500 '59-on
70-5450	SPROCKET, Engine Tri 650 '63-70
71-2662	SPROCKET, Engine Tri 650 '71-72 (req's 71-2663 SPACER)
71-3542	SPROCKET, Engine Tri 750 II's '73-on (29T TRIPLEX)
70-6890	SPROCKET, Engine Tri/BSA III's '68-74 (28T)
71-3541	SPROCKET, Engine Tri T160 (23T)
06-0383	SPROCKET, Engine NORTON COMMANDO
06-7595	WOODRUF KEY, Engine Sprocket - NORTON
68-0688	SPACER, Engine Sprocket to Crank - BSA 500/650
71-2664	SPACER, Engine Sprocket to Crank - Tri 500/650
70-8038	SHIM, Engine Sprocket (.010") Tri/BSA II's & III's (As Req'd)
70-8039	SHIM, Engine Sprocket (.015") Tri/BSA II's & III's (As Req'd)
71-2660	SHIM, Engine Sprocket (.030") Tri/BSA II's & III's (As Req'd)
06-0665	SHIM, Engine Sprocket (.036) NORTON (As Req'd)
06-0664	SHIM, Engine Sprocket (.010) NORTON (As Req'd)
06-0386	STUD, Stator - NORTON COMMANDO
68-0800	STUD, Stator - BSA A50/A65 thru '68
14-1621	STUD, Stator - BSA A50/A65 '69-on
70-6611	STUD, Stator - TRI 500 II's '59-68 (CEI)
70-9495	STUD, Stator - TRI 500 II's '69-on (UNF) (use w/70-5324 nut)
70-4537	STUD, Stator (Short) - Tri 650 '63-68½ (CEI)
70-4536	STUD, Stator (Long thru Cover) - Tri 650 '63-68½ (CEI)
21-1866	STUD, Stator (Short) - Tri 650 '68½-72 (UNF)
21-2198	STUD, Stator (Short) - Tri 140 '73-on (UNF)
21-2198	STUD, Stator (Short) - Tri T140 '73-on (UNF)
21-2199	STUD, Stator (Long thru Cover) - Tri 140 '73-on (UNF)
70-5324	NUT, Stator Stud - Tri-BSA II's thru '68½ (CEI)
14-0702	NUT, Stator Stud - Tri-BSA II's '68½-on (UNF)
60-4247	WASHER, Stator Stud Nut (All as req'd)
97-1531	DOME NUT, Primary Cover - Tri thru '68½ (CEI)
21-0544	DOME NUT, Primary Cover - Tri '68½-on (UNF)
82-1880	WASHER (5/16" COPPER), Dome Nut (All as req'd)
70-5872	GUIDE (Threaded), Stator Leads - TRI 500/650 '63-68
70-8992	GUIDE (Threaded), Stator Leads - TRI 500/650 '69-70
70-9360	GUIDE (Threaded), Stator Leads - TRI 500/650/750 II's
70-4144	BOOT, Stator Leads - Tri/BSA (Also 57-1646 Less \$\$'s)
71-1345	GROMMET (External), Stator Leads '69-on
57-1727	PRIMARY COVER - Tri 650 '63-67
70-9245	PRIMARY COVER (RH Shift) - Tri 650 '68-73
71-4072	PRIMARY COVER (RH Shift) - Tri 750 II's '73-74
71-7465	PRIMARY COVER (LH Shift) - Tri 750 II's '76-on
57-2443	POINTER, Timing - Tri/BSA '68-on
57-2440	INSPECTION COVER - Tri 500/650 '68-73 (Use with 70-9245)
82-4129	SCREW, Inspection Cover - Tri 500/650 '68-74
70-8177	SCREW, Inspection Cove - BSA A50/A65/A70 '67-on
57-2166	CAP, Primary Inspection/Trans Fill - Tri/BSA thru '75 (I,II & III's)
70-8782	O-RING, Primary Inspection Cap - Tri/BSA thru '75 (I,II & III's)
71-3895	CAP, Primary Cover Inspection - Tri 750 II's '76-on
70-6560	O-RING, Primary Inspection Cap - Tri T140 '76-on
70-3821	SCREW, Countershaft Sprocket Inspection Cover (All)

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TRANSMISSION GEARS/PARTS													
MAKE/TYPE MODEL:		SHAFT	HI-GEAR BUSH	5th GEAR	4th GEAR	3rd GEAR	2nd GEAR	1st GEAR	SHIFT FORK	CAM PLATE			
BSA- A50/A65	MAIN LAY	68-3100 68-3303	68-3178		68-3115 68-3299	68-3015 68-3120	68-3120 68-3015	68-3150 68-3151	68-3158 68-3160	SEE Note 1			
Tri 500	SEE CH	ART THIS F	AGE										
Tri 650	SEE CH	ART NEXT	PAGE										
Tri 5-Speed 73-on ⁹	MAIN LAY	57-4432 ^{2,3} 57-4900 ⁶	60-3511	57-4779 57-4791 ⁷	57-4376 57-4787	57-4377 57-4647	57-4653 57-4657	57-4653 57-4654 ⁸	57-4364 57-46604	57-4889 ⁵ 57-4889 ⁵			
NORTON ¹⁰ MKI/II NORTON ¹⁰ MKIII	MAIN LAY MAIN LAY	06-0384 04-0025 06-0384 04-0025	06-6203 06-6203	 	06-5954 06-1058 06-5954 06-1058	04-0635 04-0634 04-0635 04-0634	04-0418 04-0019 06-4640 06-4639	04-0026 04-0115 04-0026 04-0115	04-0022 04-0022 04-0022 04-0022	04-0108 04-0108 04-0108 04-0108			

1NOTE: Use 57-2767 thru '69: 57-4026 for 1970-on.

*NOTE: Use 57-4370 MAINSHAFT for TRI/BSA III's (All Other Gears are the Same as Listed for 5-SPD) *NOTE: 57-7077 HD MAINSHAFT uses 21-7072 NUT & 57-7076 TAB WASHER on Kicker Side & 14-1307 NUT & 21-7073 Washer on Clutch Side *NOTE: Use 57-4366 SHIFT FORK for Layshaft 3rd Gear

NOTE: 57-4624 Early CAMPLATE Must Remove Hi-Gear to Replace - #57-4889 CAMPLATE Hi-Gear Removal NOT Required (Can retro to Early) *NOTE: 57-4900 Latest LAYSHAFT Heavy Duty ASSEMBLY (Includes 4th & 5th Gears) *NOTE: 57-4550 EARLY (to '77) 5th GEAR and 57-4384 EARLY (to '77) 4th GEAR LAYSHAFT Will Interchange with 57-4791 LATEST ('77-on) 5th (Outer

Side Has Tapered Teeth) GEAR & 57-4787 LATEST 4th GEAR (Latest Gears MUSTbe Used as a Set) & 57-4790 CIRCLIP. NOTE: Uses 57-4661 DRIVING DOG

"NOTE: '73 Leaf Spring Model Uses 57-4288 (LEAFSpring),57-4289 (Leaf Spring SUPPORT), 57-4291 (LOCKTAB), 82-4771 (SCREWS)

19NOTE: UNDER NO CIRCUMSTANCES MIX NORTON MKI/II & MKIII 2nd & 3rd GEARS. Use as SETS ONLY (ie. LAYSHAFT & MAINSHAFT PAIRED) ¹¹NOTE: 60-3511 is a Needle Bearing and NOT a Bushing

MISCELLANEOUS GEARBOX PARTS (5-SPD)

57-3989 SPINDLE, Shifting Fork

57-7020 PLUNGER, Camplate ('74-on)

57-4459 SPRING, Plunger ('74-on)

57-3978 WASHER, Plunger Housing ('74-on)

57-4400 HOUSING, Camplate Plunger ('74-on)

57-1896 SPINDLE, Gearchange Quadrant (thru '75)

57-7011 SPINDLE, gearchange Quadrant ('76-on)

57-4363 57-7052 57-1606 57-1614 57-1607/S 60-3494

QUADRANT, Gearchange (Vertical) '72-77 QUADRANT, Gearchange (Vertical '78-on NEEDLE BEARING, layshaft (Closed) NEEDLE BEARING. Layshaft (Open) THRUST WASHER (Heavy Duty (Req's. 2) CIRCLIP Layshaft 1st & dog

TRANSMISSION GEARS/PARTS (TRI 500 59-ON - STD RATIO) *											
PART/YEAR:	'59-60	'61-63	'64-66	'67	'68-69	'70-74	TR5T				
HI-GEAR (MS) BUSH 3rd ¹ 2nd 1st ¹ SHIFT FORK 4th ¹ (LS) 3rd 2nd ¹ 1st ⁵ SHIFT FORK CAMPLATE L-SHAFT BEARNG ⁶	$\begin{array}{c} 57\text{-}1403\ (26)\\ 57\text{-}1405\\ 57\text{-}1406\ (19)\\ 57\text{-}1410\ (23)\\ 57\text{-}1406\ (28)\\ 57\text{-}1430\\ 57\text{-}1430\\ 57\text{-}1413\ (23)\\ 57\text{-}1413\ (23)\\ 57\text{-}1479\ (18)\\ 57\text{-}1479\ (18)\\ 57\text{-}1414\ (32)\\ 57\text{-}1481\\ 57\text{-}1458\\ 57\text{-}1367\\ \end{array}$	$\begin{array}{c} 57\text{-}1403\ (26)\\ 57\text{-}1405\\ 57\text{-}1406\ (19)\\ 57\text{-}1410\ (23)\\ 57\text{-}1406\ (28)\\ 57\text{-}1430\\ 57\text{-}1480\\ 57\text{-}1615^2(28)\\ 57\text{-}1413\ (23)\\ 57\text{-}1413\ (23)\\ 57\text{-}1479\ (18)\\ 57\text{-}1479\ (18)\\ 57\text{-}1481\\ 57\text{-}1458\\ 57\text{-}1458\\ 57\text{-}1606^4\\ \end{array}$	$\begin{array}{c} 57-1947\ (22)\\ 57-1948\ (16)\\ 57-1948\ (24)\\ 57-1948\ (24)\\ 57-1949\ (23)\\ 57-1949\ (23)\\ 57-1839\ (20)\\ 57-1949\ (15)\\ 57-1950\ (27)\\ 57-1481\\ 57-1768\\ 57-1606\ 4\end{array}$	$\begin{array}{c} 57-1947\ (22)\\ 57-1405\\ 57-2275\ (16)\\ 57-1922\ (21)\\ 57-2275\ (24)\\ 57-1480\\ 57-1949\ (23)\\ 57-1949\ (23)\\ 57-1949\ (15)\\ 57-1949\ (15)\\ 57-1950\ (27)\\ 57-1481\\ 57-1768\\ 57-1606\\ \end{array}$	57-2318 (22) 57-1405 57-2275 (16) 57-1922 (21) 57-2275 (24) 57-1480 57-1949 (23) 57-1839 (20) 57-1949 (15) 57-1950 (27) 57-1481 57-1768 57-1606	57-3991 (22) 57-1405 57-4039 (16) 57-3994 (21) 57-4039 (24) 57-1480 57-4041 (23) 57-3997 (20) 57-4041 (15) 57-3999 (27) 57-1481 57-1768 57-1606	57-3991 (22) 57-1405 57-4040 (15) 57-4031 (20) 57-4040 (24) 57-1480 57-4608 (24) 57-3997 (20) 57-4608 (15) 57-4033 (29) 57-1481 57-1768 57-1606				
*NOTE: Number in Brackets "(XX)" Denotes # of Teeth *NOTE: Gear and Shaft Sold as an Assembly *NOTE: 5TA Uses 57-1479 LAYSHAFT *NOTE: 1st Gear Uses 57-1367 BUSH (Thrust Washer NOT Used) *NOTE: 1st Gear Uses 57-1393 BUSH *NOTE: 57-1606 NEEDLE BEARING Drive Side (Closed) Requires 57-1607/S (Heavy Duty) THRUST WASHER											
MISCELLANEOUS 57-1416 POINTEI 97-0688 SCREW, 57-1418 SPINDLE	TRI 500 TR R, Gear Indicati Pointer Mounti E, Pointer	ANS PARTS		60-02 57-14 57-14	08 RIVET 57 SPIND 71 PLUNO	, Indicator Plate LE, Shift Fork GER, Camplate	e Mounting				

O'RING, Pointer Spindle ('68-on) PLATE, Gear # Indicating 7165 30th Avenue North

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		A • A •	-1-				0110.			
		TRANSMIS	SSION GEA	RS/PART	S (4-Speed	· Standard Ra	tio)	<i>V</i>		
PART/YEAR:	Th	ru '64	'65	'66	'67	'68	'69	'70	'71-72	
HI-GEAR (MS) BUSH ⁷ 3rd 2nd 1st SHIFT FORK	57 57 57 57 57 57 57	-1382 5' -1370 5' -0917 5' -0916 5' -0914 5' -2608 ¹ 57	7-1914 7-1370 7-0917 7-0916 7-0914 7-2608 ¹	57-1914 57-1370 57-0917 57-0916 57-0914 57-2608 ¹	57-1914 57-1370 57-0917 57-0916 57-0914 57-2608 ¹	57-2316 ² 57-1370 57-0917 57-0916 57-2436 ² 57-2608 ¹	57-2316 ² 57-1370 57-2378 57-0916 57-2436 ² 57-2608 ¹	57-3891 ² 57-1370 57-3889 57-3857 57-3893 ² 57-2596 ¹	57-4332 ² 57-1370 57-3889 57-4335 57-4158 ² 57-4308	
4th (LS) 3rd 2nd 1st SHIFT FORK SHIFT FORK SPINI CAMPLATE CAMPLATE PLUN PLUNGER SPRING PLUNGER HOUSIN	57 57 57 57 57 57 57 57 GER 57 57 VG ⁶ 57	-1843 5' -0930 5' -1065 5' -0926 5' -09131 57 -0291 5' -0500 5' -0373 5' -0372 5'	7-1843 7-0930 7-1065 7-0926 7-0913 ¹ 7-0291 7-0500 7-0044 7-0373 7-0372	57-1843 57-0930 57-1065 57-0926 57-0913 ¹ 57-0291 57-0500 57-0044 57-0373 57-0372	57-1843 57-0930 57-1065 57-0926 57-0913 ¹ 57-0291 57-0500 57-0044 57-0373 57-0372	57-2093 57-0930 57-1065 57-0926 57-0913 ¹ 57-0291 57-3650 57-0044 57-0373 57-0372	57-2093 57-2379 57-1065 57-0926 $57-0913^{1}$ 57-0291 57-3650 57-3660 57-3661 57-2172	57-3864 57-3890 57-3861 57-3862 $57-0913^{1}$ 57-3989 57-4055 57-3660 57-4059 57-2172	57-4345 57-3890 57-3861 57-3862 57-4307 57-3989 57-4055 57-4288 ³ 57-4289 ⁴	
 NOTE: Requires 57-2595 Shift Fork ROLLER: "71-72 Shift Forks Include Non-Removable Roller NOTE: All Triples Use 57-4175 Mainshaft 1st (16T) GEAR &/or 57-4346 Mainshaft 4th (26T) GEAR) NOTE: LEAF SPRING (Pre-Modified as per Triumph Bulletin 6/15/72) - Use with 57-4291 (LOCKTAB) & 82-4771 (SCREWS) NOTE: Leaf Spring SUPPORT - Use with 57-4291 (LOCKTAB) & 82-4771 (SCREWS) NOTE: Order 57-1604 for Heavy Duty Plunger SPRING NOTE: Use with 57-3978 WASHER 										
Triumph 650 4-Sp 57-1606 NEEDLE 57-1614 NEEDLE 57-1607 THRUS 57-0397 QUADR 57-1896 SPINDL	E BEARING E BEARING E BEARING T WASHER ANT, Gearcha E, Gearcha	NSMISSIC , Layshaft (C , Layshaft (C , Layshaft (F change (Vert nge (Vertica	DN PARTS Closed) Dpen) Req's. 2) ical) I Quadrant)	6 (MISC)				20		
		\bigcirc	S	COUNTER PROCKET	RSHAFT TS/PARTS)} ()		
MAKE/MODEL:	HI-GEAR BEARING	BEARING CIRCLIP	18 Tooth	19 TOOTH	H 20 TOOTH	21 ТООТН	22 TOOTH	LOCK TAB	NUT	
BSA A50/A65 Tri 500II's '59-on Tri 650 to '64 Tri 650 '64-on ⁴ Tri 5-Speed (All) NORTON ²	57-0448 57-0665 57-0448 57-0448 60-4100 ¹ 04-0098	68-0024 37-0680 70-0489 70-0489 70-0489	68-3093 57-1476/18 57-1815 57-1917 57-4784	68-3078 57-1476/ 57-1715 57-1918 57-4783 04-0480	8 68-307 19 57-1476, 5 57-174 3 57-1919 5 57-4782 0 06-093	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68-3089/22 1 57-1476/22 1 57-1749/22 1 57-1919/22 57-7067/22 06-0759 ⁵	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40-3051 57-2536 57-0440 57-0440 57-4396 04-0070	
¹ NOTE: Due to variations i than the race on ² NOTE: Also Available in ³ NOTE: LockTab Requir ⁴ NOTE: 4spd ONLY ⁴ NOTE: Add "/520" to spr	n 5-spd hi-gea hi-gear on w 23 Tooth (06 res 00-0450 \$ ocket numbe	ars make sure hich it rides) 5-3420), 24 To SCREW. r for 520 type	countershaft: both (06-3421 sprocket. Sa	sprocket doe:) & 25 Tooth me strength	s not bind roller ı (06-3963) Co as 530 but allo	s when properly untershaft SPR ows more cleara	torqued (i.e. Le OCKET nce or "X" ring	ngth of roller m sealed chain	ust be shorter (see page 69)	
				MAINSI KICKEF	HAFT SIDE	0				
MAKE/MODEL:	M-SHAFT BEARING	BEARING CIRCLIP	THRUST WASHER	SPACE SLEEV	R SLEEV E SPRING	E RATCHET G GEAR	M-SHAFT GEAR	LOCK TAB	NUT	
BSA A50/A65 Tri 500 '59-66 Tri 500 '67-74 Tri 650 to '68 Tri 650 '68-on Tri 750 II's Tri-BSA III's COMMANDO	57-3621 57-1469 57-1469 60-3552 60-3552 60-3552 60-3552 04-0099	67-3028 57-0280 57-0280 57-0280 57-0280* 57-0280* 57-4113 57-4113	57-1962 57-1962 57-1962 57-1962 57-1962 57-1962 * Use 57-4112	67-3169 57-1960 57-1960 57-1960 57-1960 57-1960 3 for late '70	9 67-3162 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250 3 57-1250	2 68-3095 - - 0 57-0730 0 57-0730 0 57-0730 0 57-0730 0 57-0730 0 57-0730 0 -	68-3056 57-0731 57-0731 57-0731 57-0731 	68-3301 57-2240 57-2240 57-2240 57-2240 57-2240 57-2240	67-3163 57-2009 21-0594 99-3542 21-0594 21-0594 21-0594 04-0023	

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									P -							
KICKSTART QUADRANT/PARTS			þ		Ð		(Ċ)	and the second				
MAKE/MODEL:		KICK GEA	ER AR	G SPI	EAR		AWL SHER ¹	QUA BEAR	AD ING	KICKER QUAD		KICKER PAWL		P. PLU	AWL JNGER	PAWL SPRING
BSA A50/A65		57-43	312			-								_		
Tri 500 '59-63 Tri 500 '64-74 Tri 650/750 (to '77)		57-41		57-	00244	5 5 	7-1426 7-1426	57-14 57-13	446 897²	57-14 57-19	445 981 ²	57-1 57-1	431 431	57 ⁻ 1282 57-1282		57-1161 57-1161
NORTON								04-0	146	04-04	177	06-20	015 ³	04	-0069	04-0044
¹ NOTE: Required to Prevent Pawl & Gear from Jamming ² NOTE: 5TA Uses 57-1445 QUADRANT with 57-1446 BUSH ³ NOTE: Use with 04-0033 PAWL PIN ⁴ NOTE: For 1976-on Order 57-4756																
		-11-														
KICKSTARTER LEVERS & PARTS			3		S)			2	=0	œ	0		6		Ð	00
MAKE/MODEL:	KI AS	ICKER SSEMB	KIC AR	CK M	BOL' COTT	T/ ER	KICK PEDAL	PIVC BOL	TC T	PIVOT SPRING	PI B	VOT ALL	KIC SPR	CK ING	SPRINO PLATE	G OUTER BUSH
Tri-BSA I's BSA A50/A65 Tri 500 (NOT TR5T) ¹ Tri 500 TR5T ¹ Tri 650/750II & III's ² Tri T150 '74-on ³ COMMANDO COMMANDO MKIII	5 5 5 5 5 5 0 0	7-2763 57-2173 7-2764 57-2173 7-3797 57-3742 7-4503 57-4498 7-7018 57-2173 7-4941 57-4904 6-1464 ———		173 173 742 498 173 904 	57-435 57-435 21-064 21-064 57-435 57-435 06-05 06-05	56 ⁶ 44 ⁷ 44 ⁷ 56 ⁶ 56 ⁶ 99	57-7017 57-7017 57-7017 57-1272 57-7017 57-4904 04-2934 06-6398	57-11 57-11 57-12 21-05 21-05 21-23 06-05	69 69 73 41 41 518 50 ⁸ 50 ⁸	57-1167 57-1167 57-1167 57-1167 57-1167 57-4861 04-0433 ⁹ 06-6399	167 60-2364 167 60-2364 167 60-2364 167 60-2364 167 60-2364 167 60-2364 167 60-2364 167 60-2364 167 60-2364 38		40-3275 68-3053 57-1441 ⁴ 57-1441 ⁴ 57-0031 57-0031 04-0475		68-3054 57-1422 57-1422	57-2642 4 68-02135 2 57-0023 - 57-0023 - 04-0472 - 04-0472
³ NOTE: 1-Piece Kickstart A ⁴ NOTE: Use 57-1464 Kicks ⁵ NOTE: A Uses 68-3005 Ini ⁶ NOTE: Use 57-4357A for (⁷ NOTE: '69-on ONLY (Use 1 ⁸ NOTE: Domed NUT ⁹ NOTE: THRUST WASHER SHIFT QUADRANTS/PART	RM/ start her I Dver 57-1	/PEDAL L er Assem Kickstart size Kick 439 for '5	Jses 5 Ibly DI BUSH start C 59-68)	7-490 STAN COTTE	6 Kickst CE PIE	art Arr CE	n CARRIE	ER	Ø.	\$	A200001211-0				€	
					?			() 	/ 	DUDU	CED	011				OUTED
MAKE/MODEL:		LEV	ER	BC	OLT	Q	UAD	SPR	ING	SPRI	NG	PLUN	AD IGER	B	SUSH	BUSH
SINGLES (Tri-BSA) BSA A50/A65 '62-65 BSA A50/A65 '66-70 BSA A50/A65 '71-on Tri 500 '59-74 ² Tri 650/750 4-Speed ³ Tri 650/750 5-Speed ⁵ Tri 5-SPD '76-on ⁶ (All COMMANDO ⁷ COMMANDO MKIII ⁷	INGLES (Tri-BSA) 57-1164 57-270 SA A50/A65 '62-65 57-1164 57-270 SA A50/A65 '66-70 57-1164 57-270 SA A50/A65 '66-70 57-1164 57-270 SA A50/A65 '66-70 57-1164 57-270 SA A50/A65 '71-on 57-1164 57-270 ri 500 '59-74² 57-1435 14-020 ri 650/750 4-Speed ³ 57-3757 14-010 ri 650/750 5-Speed ⁵ 57-3757 14-010 ri 650/750 5-Speed ⁵ 57-3757 14-010 ri 5-SPD '76-on ⁶ (All) 57-7010 14-010 OMMANDO ⁷ 06-1499 14-010 OMMANDO MKIII ⁷ 06-6188 14-010		2703 57- 2703 68- 2703 68- 2703 57- 0201 57- 0105 57-43 0105 57-43 0105 57-43 0105 57-43 0105 57-43 0105 57-43 0105 57-43		-2692 -3098 -3294 -4116 -4888 0408/9 ⁴ 374/408 ⁴ .7021 ⁴	57-1 68-3 57-4 57-4 57-1 57-0 57-0 57-0 57-7 04-0 04-0	1109 3084 4027 009 ¹ 1877 0404 0404 0404 0479 0479	57-2106 57-1436 57-1436 57-1436 57-1436 57-0405 57-0405 57-0405		57-2105 68-3096 68-3096 68-3096 57-1396 57-0406 57-0406 57-4403 57-4403			2-0412 2-0412 2-7009	57-1395 57-0057 57-0057 57-7008 06-5184 06-5184		
¹ NOTE: Uses 57-4008 Sprin ² NOTE: Tri TR5T Uses 57-4 ³ NOTE: Also Tri-BSA III's (4 ⁴ NOTE: Uses 57-0407 GUIE ⁵ NOTE: Also Tri-BSA III's 55 ⁶ NOTE: Uses 57-7003 Cross ⁷ NOTE: Uses 04-0038 Shift 716	ig C 561 spd DEPI spd sove Rac	UP SHIFT L ONLY) LATE ("U (R-Hand er SHAFT chet Hair 30th	EVER "-Shap Shift C SPRIN	& 37- be) DNLY) NG n u e	0932 B0	DLT	S	St. Pe	ters	sbura	FIG	orida	337	10	=	— 17
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TT.A.P. Gaskets and Gasket Sets are made exclusively for TT.A.P. using the finest imported Swedish "Klinger" or American made non-asbestos material. The customer should note that TT.A.P. Gaskets fit correctly, due partly to our staff's time, effort and with the removal of the Lawyer provoking asbestos, many gasket are now inferior to their old counterparts, TI.A.P. constantly searches for the best material to use in their kits. Quality control procedures, Best Materials along with new dies assure **TI.A.P.** Gaskets have an unusually good leak proof fit.

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NEW !! Triumph kits now include an Exclusive **T.R.P.** Black Hi-Temp Viton pushrod tube washers and/or o'rings. By including our special low durometer Viton material (450+ degree) distinguishable by its unique 3-gray dots assures it is an authentic $\Pi . \pi . P$. material, a flexible and uncompromising seal can be created in this problematic area. Also, because of its flexibility, there is less chance of distorting ones cylinder head often caused by the use of more rigid types of sealing washer offered elsewhere. Assembly is best set with "crush" of between .020-.040" (max. .060"). Smooth any sharp edges that could start a tear. NEVER mix pushrod tube washer Brands as excessive crush of one seal will lead to failure. Look for the "3-gray dots". We care about our customers! Be sure to Always use **m.A.P**. Viton pushrod seals as sets.

Ask your dealer for genuine **TI.A.P**. Gaskets and **TI.A.P**. Seal kits.

*M.<i>R***.P.** GASKET SETS

(Order HeadGaskets Separately - See Page 25)

"3-dot" Lo-Durometer

ew & Exclusive

Washers

Tube

.**R.P.** "3-c

E

Tri 500 II's - Top-End Only '63-74 MAP0102*

Tri 500 II's - Complete Engine Set '63-74 MAP0103*

*NOTE: 1959-1963 Tri 500 II's require 2 of 70-3758 Special Pushrod Tube Gaskets.

- MAP0104 Tri 650 II's - Top-End Only '63-72 (All)
- MAP0104/A Tri 650 II's - Top-End Only '63-70 (All)
- MAP0104/B

MAP0105/A

Tri 650 II's - Top-End Only '71-72 (All) Tri 750 II's - Top-End Only '73-79 (All) Tri 750 II's - Top-End Only '80-83 (T140 (Only)) MAP0105/B

MAP0106 Tri 650-750 II's - Bottom-End Only '63-83 (non electric start only)

NOTE: For Complete Engine Set - Order the Correct Top-End Gasket Set, an MAP0106 & Headgasket (as required)

MAP0110 Tri T150 - T160 & ROCKET III - Top-End Only (All)

MAP0111 Tri T150 - Complete Engine Set

MAP0112 Tri T160 - Complete Engine Set

MAP0120 NORTON 750-850 Commando - Top-End Only (All)

BSA A50-A65 - Top-End Only '63-70 BSA A50-A65 - Top-End Only '71-72 MAP0130

MAP0131

MAP0132 BSA A50-A65 - Bottom-End Only '63-70

NOTE: For Complete Engine Set - Order the Correct Top-End Gasket Set, an MAP0132 & a Headgasket (as required).



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Imported ENGLISH GASKET SETS

MODEL		YE	AR	DECOKE SET #	ENGINE SET #			
TRIUMPI TIGER C TIGER C TR25W,E TR25W,E 3TA, TWI 3TA, TWI 5T SPEE 5TA, SPE T100 (CA TIGER 10 T100, TR TIGER 10 TRW 6T (IRON THUNDE T110, TR T120 BOI	H UB UB 325 325 IN T21 IN T21, TIGER 90 (T90) D TWIN (T100A, T100SS '60-66) ED TWIN ST IRON HEAD) 00, T100 (ALLOY) 5 00 I HEAD), TR6, TR110 RBIRD 6 S/S NNEVILLE	1954-1959 1960-1968 1967-1970 1971-on 1957-1966 1965-1968 1939-1957 1958-1966 1946-1950 1951-1953 1951-1958 1956-1959 1952-on 1949-1955 1956-1962 1956-1963 1959-1962		MAP0150 MAP0152 MAP0157 MAP0154 MAP0160* MAP0173* MAP0162* MAP0169* MAP0177* MAP0177*	MAP0151 MAP0153 MAP0158 MAP0159 MAP0170 MAP0171 MAP0161 MAP0163 MAP0163 MAP0165* MAP0165* MAP0166 MAP0166 MAP0167 MAP0178 MAP0168			
NORTON MANXMA ATLAS, M ATLAS, F	N, DOMINATOR JANXMAN 211A	1961- 1962- 1967-	1970 1966 1968	MAP0180 MAP0181 MAP0182	MAP0185 MAP0186 MAP0187			
BSA C15, C15 B25 STAI B40 STAI B44, B40 B33,B34, B33,B34, B50SS G M20, M2 ⁻ A7 A7 STAR A10 GOL ROAD R0 *Headgas	SPORTS STAR SS80 RFIRE, C25 25T R, SS90 G, VICTOR M33 (ALLOY HEAD) OLD STAR, B50T VICTOR TRAIL I TWIN, A7 SHOOTING STAR DEN FLASH DCKET, SUPER ROCKET Sket NOT included - Order Below	$1959-4967 \\1966-1970 \\1971-1972 \\1960-1965 \\1964-1970 \\1948-1960 \\1950-1963 \\1971-1973 \\1950-1963 \\1947-1950 \\1951-1962 \\1950-1963 \\1956-1962 \\1956-1962$		MAP0157 MAP0154 MAP0146 MAP0190 MAP0194 MAP0196	MAP0141 MAP0158 MAP0159 MAP0191 MAP0192* MAP0193 MAP0148 MAP0149 MAP0199 MAP0198 MAP0195 MAP0197			
Engli Note: most C BSA 40-0140 70-8081 41-0638 71-1625 68-0828 68-0781 67-0255 68-0827	HEAD GASKETS ish Made "Dead-Soft" Copper Driental Copper Headgaskets are hard & Not Sea C15 B25 B40-B44 B50 A50 A50 Copper/Fiber) A10 A65/A70	l Properly!	71-4619 71-4250 TRIUMPH MAP9071 MAP9072 MAP9073 MAP9074 MAP9076 MAP9077 MAP9079	750II's 10-BOLT (Fiber 750 Trident T150/T160 "Special" Gasket Routt "750"/Chatland "7 Routt "750"/Chatland "7 Routt "825" (3.120" STI Routt "850" (3.187" STI Morgo/Aerco Big-Bore T140 w/TI.A.P. ZeroDe T140 w/TI.A.P. ZeroDe	with Ring) (71-1733 Fiber w/Ring) (71-1733 Fiber w/Ring) (750" 1 750" 2 D Bore) D Bore) Kit ³ eck Forged Pistons ¹ cck Forged Pistons ²			
71-4250 NORTON NM24255 06-7919 06-4071 06-3811	ROCKET III Atlas '62-66 ATLAS '67-on 750 COMMANDO 850 COMMANDO		MAP9080 MAP9082 MAP9091 MAP9092	ш.п.р. T120 Alloy 750 ш.п.р. T120 Alloy 750 ш.п.р. T140 Alloy 750 ш.п.р. T140 Alloy 750	Kits ¹ (Nikasil Kits) Kits ² Kits ¹ Kits ³² (Nikasil Kits)			
TRIUMPH 70-3217 200 Tiger Cub 70-8081 250 I's 71-1625 500 I's 70-4674 350 II's 70-4015 500 5TA ('59-64) T100A ('59) .048" 70-4675 500 5TA ('65-on) T100 ('60-on) 70-3614 650 8-BOLT (Pre-Unit) 70-4547 650 9-BOLT (Unit) 71-3681 750II's 10-BOLT 7165 30th Avenue North			MAP9095 MAP9096 70-4547/B ¹ for Any Stock ² Required for a ³ Required for a ⁴ Required for a ⁵ Required for a St. Pete	Т.А.Р. Т140/Т120 Allo Т.А.Р. Т140/Т120 Allo Т120 w/Т.А.Р. ZeroDec Piston & Т.А.Р. ZeroDeck F Т.А.Р. ZeroDeck Pistons up Т.А.Р. ZeroDeck Pistons up Т.А.Р. ZeroDeck Pistons up Т.А.Р. ZeroDeck Pistons up Т.А.Р. ZeroDeck Pistons up T.A.P. ZeroDeck Pistons up	y "800" Kits (Sleeved) y "825" Kits (Nikasil Kits) eck Pistons 9.5/10.5 ⁵ Pistons up to 3.012" bore to 3.052" bore to 3.032" bore (rec. max bore) to 2.830" bore to 2.860" bore 3710			
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INDIVIDUAL GASKETS	BSA/TRIUMP	H (UNIT SINGLES)
	- 70-1577 71-1425	Valve Inspection (Round) Cover (All) (req's 2)
AA	71-1429	Rocker Inspection "Oval" Cover (B44/B50)
no)	71-2198	Rocker Box - "250" (All)
C I	71-14∠7 71-1623	Rocker Box - 441 (All) Rocker Box - "500" (All)
- 13-CO-C-	71-3573	Carb To Manifold (All)
A A	70-4918 71-2233	Cvlinder Base - "250" (All)
A POLA	70-7727	Cylinder Base - "441" (All)
	/1-1624 70-7856	Cylinder Base - "500" (All) Primary Cover (Not Tiger Cub)
S and a start	71-1462	Point Cover (All)
P	71-1420 71-1428	Timing Aperture '68-on (All) Oil Pump (All)
	71-1419	Clutch Door (All) Never mix (777P low durometer "Viton"
	71-1424 70-8259	Sump Plate (All) (soft/pliable) with any other brand ring
	TOILIMPH 35(500 II's (unit) as the harder material will crush the
AA	70-3751 ²	Rocker Inspection Cover
	70-9511 ¹ 70-3253	Rocker Box (Heavy Duty (H.D.) .032" material)
	82-1880	Copper Washer (Rocker Line) reg's 6
	70-3798	Cylinder Base
00	71-3910	Oil Pump Oil Line
	70-2967	Manifold to Head (thru '67)
	/0-6//∠ 71-3573	Manifold to Head 68-on Carb to Manifold (All)
and	70-4918	Carb Insulator (Phenolic) (or /GSK" Gasket Material 1/8")
P	/1-1283/Viton [。] 70-7310	Pushrod Tube O'ring Lop (Hi-temp Viton) .090100" wali Pushrod Tube O'ring Bottom
	70-3547/Viton ^{2,3}	Pushrod Tube Washer 2.5mm Hi-Temp Low Durometer Viton
	70-4752/Viton ^{2,3}	Pushrod Tube Washer 3.5mm Hi-Temp Low Durometer Viton
	70-7563	O'ring Tappet Block (inner)
A.A	71-1456 71-1457	Primary Cover Poter Cover (Primary Inspection) '68-on
	71-1419	Clutch Door
and and a	71-1462 71-7263/500	Points Cover 70-7505 - 01111g (Duty) Timing Cover Tappet Block (Tri II's & III's)
	71-1448/500	Kicker Outer Cover (Outer Trans Cover)
	71-3096/500	Trans Inner Cover (Inner to Crankcase)
	TRIUMPH 650	D-750 II's Peaker Box Inspection, Dro-unit (D-11)
	70-3751	Rocker Box Inspection, Fie-unit (F-0) Rocker Box Inspection - '63-72 (Round Screw-in)
	71-2574	Rocker Box Inspection - '71-72 (4-bolt Oval)
	70-1650	Rocker Box inspection - 72-on (o-boit Oval) Rocker Box - 650cc P-U (4 Per Iron Head 5T-6T-T100 Engine)
	70-3552	Rocker Box - 650cc P-U (2 Per Alloy Head '56-62 TR6-T120 Engine
	70-9348 ⁻ 71-2599 ¹	Rocker Box - 63 thru /0 (Heavy Duty (H.D032 material) Rocker Box - 71-on (w/Locating Pins) (H.D032" material)
	70-1335	Rocker Oil Feed Copper Washer
A	60-3548 71-1283/\/iton ³	Rocker Box Spindle O'ring New better fit) Pushrod Tube O'ring Top (MAP Viton) '68½'-on: Bottom '68½'-on
	70-7310	Pushrod Tube O'ring Bottom '68½:-on Inside Push-Rod Tube
17000	70-1496° 70-4752/\/iton ^{2,3}	Pushrod Tube Washer 4.5mm (Bottom thru '65) Pushrod Tube Washer 3.5mm MAP Viton (Bottom '67-72)
o lo lo lo	70-3547/Viton ^{2,3}	Pushrod Tube Washer 2.5mm MAP Viton (Top to '68½: Bot '66)
000	70-7563 ³ 70-5660	O'ring Tappet Block - Inner Pushrod Tube '69-on Manifold To Head, (Single Carb Only)
	71-3573	Manifold to Head (T120) & Carb To Manifold (All)
	70-9711	Carb Flange O'ring '68-on (w/o Insulator Block)
6 Sh	70-6309	Cylinder Base (All) .020" for HeavyDuty or Reducing Compression
C C C C	E7 1100	Ádd "/HD030" (.032" Thick) or "/HD060" (.062" Thick))
	57-1226	Primary Cover P-0 (Swing-arm w/Generator 54-59 1110 Primary Cover P-U (Swing-arm w/Altermator '60-62)
	71-7009	Primarý Cover (All Unit)
Note: Add " /VR " for .030 Steel Reinfo	rced German material: Add	"/OE" for Std Duty .020" Gasket

Note: Mix MAP Low Durometer Hi-Temp Silicone Washers to achieve a .020-040" with .060"Max. Head to Barrel Crush (ideal is .030") ***Note**: Never mix MAP Low Durometer WASHERS ("/Viton") with other brands on the same tube as the soft material will crush thus leak!

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H.A.P. Cycle Enterprises, Jnc. 06-7510 Oil Pump Feed Sealing Washer (Non Mk III)



BRAKE REBUILD KITS





06-6190	Oil Pump Feed Sealing Washer (Mk III)
06-2447	Oil Pump
06-1092	Timing Cover
04-0057	Gearbox Inspect Cover
04-0055	Kicker Cover (Outer Trans Cover)
04-0030	Inner Trans Cover (Inner to Main Housing)
06-3056	Lach Housing
06-2580	Timing Chain Inspection Cover O'ring
06-2583	Oil Level Plug O'ring
03-2044	Oil Junction
06-2618	Breather Body
BSA A50-A65	
71-1431 ²	Rocker Cover (Early '62-70)
71-2207²	Rocker Cover (Late '71-on)
71-3573	Carb To Manifold (Same as Tri) All
70-5660	Manifold to Head (Same as Tri) All Single Carb
70-4918	Carb Insulator (Phenolic) (or "/GSK" Gasket Material 1/8")
/1-1433	Cylinder Base
70-8782	Inspection Cover O'ring
71-1420	Rotor Inspection Cover (Primary Cover)
71-1432	Primary Cover (ASU/A6S)
71-1419	Clutch Door
71-1407	
71-2290	Oil Line Juction to Case
71-1/36	Tach Adapter
71-1424	Sumn Gasket (Engine)
83-2829	Frame Sump Gasket (OIF)
² Note: Re-Usable	Fiberglass Reinforced Silicone Add "/S" Sold Each

nph)
• /

M.A.P. Cycle has designed seal kits for popular motorcycle engines that contain all of the necessary bottom end seals and o'rings for the particular engine specified. By combining an **M.A.P.** Gasket set(s) with one corresponding seal kit the customer is assured all the necessary seals & gaskets for his engine. No hassles!!! Always ask your dealer for **Genuine M.A.P. Cycle** Gasket & Seal kits.

TRIUMPH	
MAP0201	500 II's (1959-67)
MAP0202	500 II's (1968-74)
MAP0204	650 II's - 4-spd (1963-on)
MAP0204/A	650 II's - 4-spd (1963-68 ¹ / ₂)
	(Clutch Door Seal w/.8" I.D. 1.38" O.D. onto .9" Hi-Gear Bush O.D.)
MAP0204/B	650 II's - 4-spd (1968½-69)
	(Clutch Door Seal w/.955" I.D. 1.55" O.D. onto 1.065" Hi-Gear O.D.)
MAP0204/C	650 II's - 4-spd (1970-on)
MAP0205	650/750 II's - 5-spd
MAP0210	T150 & Rocket III - 4-spd (All)
MAP0211	<u>T150 - 5-spd (All)</u>
MAP0212	T160 - 5-spd (All)
NOTE: Above Tride	ent kits do NOT include tach drive "O" rings
NORTON	
MAP0220	COMMANDO 750/850 - Engine Only (NO Oil Line Washers Included)
MAP0222	GEARBOX & PRIMARY - (Pre MK III) (Order 06-0398 Primary Band as required)
MAP0223	GEARBOX & PRIMARY - (MK III ONLY)
BSA	
MAP0231	A50/A65 ('62-72) (NO Tach/Speedo O'ring Included)
22	7165 30th Avenue North St. Petersburg, Florida 33710 = Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

BSA/TRIUMPH (UNIT SINGLES) INDIVIDUAL SEALS Point (All) Crank (Drive Side) Crank (Timing Side) 70-8153 70-8025 70-8154 70-8158 Oil Feed O'ring '68-on 70-3833 Clutch Door (All) 70-8015 Countershaft Sprocket Seal (All) Kickstart Spindle Fork Seal - Steel Leg '67-69 57-2641 97-2641 Fork Seal - Steel Leg '69-71 (Or 97-1500/LP Leakproof) Fork Seal - Alloy Leg '71-on (Or 97-4001/LP Leakproof) Swingarm Pivot '71-74 97-1500 97-4001 83-2244 **TRIUMPH 350-500 II's (UNIT CONSTRUCTION)**60-3548Rocker Box Spindle O'ring 60-3548 Tappet Block O'ring (Use 70-7563 for Hi-temp as Reg'd) 70-8782 70-4568 Point 70-4568 Crank Seal (Timing Side) Crank Seal (Drive Side) Clutch Door Seal '59-68½ Clutch Door Seal '68½-on 70-3876 70-3833 70-7565 (w/.955" I.d. & 1.55" O.D. onto 1.065" Hi-gear O.D.) 70-8782 Primary Fill Cap O'ring Countershaft Sprocket Seal 57-1478 57-2697 Shift Lever Spindle O'ring 70-3309 Shift Shaft O'ring Gear Indicator O'ring 70-4803 57-2239 Kicker Spindle Seal Fork Seal - Steel Leg '59-on (Or 97-1500/LP Leakproof) Fork Seal - Alloy Leg '71-on (Or 97-4001/LP Leakproof) 97-1500 97-4001 TRIUMPH 650-750 II's (UNIT CONSTRUCTION) Rocker Box Spindle O'ring 60-3548 Tappet Block O'ring (Use 70-7563 if Hi-temp Required) Point & Crank Seal Standard (Timing Side) Point & Crank Seal +.020" OS (Timing Side) 70-8782 70-4568 70-6387 Crank Seal (Unit Drive Side) Crank Seal (Pre-unit Drive Side) 70-3876 97-1168 Clutch Door Seal (to '68½ (4-speed)) (w/.8" I.D. & 1.38" O.D. on .9" Hi-gear Bush O.D.) Clutch Door Seal ('68½-on (4-speed)) 70-4578 70-7565 (w/.955" I.D. & 1.55" O.D. onto 1.065" Hi-gear O.D.) Clutch Door Seal (5-spd) 60-3500 70-8782 Primary Fill Cap O'ring High Gear (Inside) Seal (5-spd) Countershaft Sprocket Seal (4-spd) Countershaft Sprocket Seal (5-spd) 60-3500 57-0946 60-3512 Countershaft Sprocket O'ring (5-spd) Shifter Spindle O'ring Shifter Spindle O'ring ('76-on) 71-1070 60-3530 60-2640 57-1956 Kick Shaft Seal 60-3355 Pressure Release Valve O'ring 97-1168 Fork Seal - Steel Leg thru '63 Fork Seal - Steel Leg 64-on (or 97-1500/LP Leakproof) Fork Seal - Alloy Leg '71-78 (or 97-4001/LP Leakproof) Fork Seal - Alloy Leg '78-on (Floating) 97-1500 97-4001 97-7079 **TRIUMPH 750 III's** 60-3548 Rocker Box Spindle O'ring 70-4568 Point Seal 57-3642 Clutch Spacer/Clutch Driving Hub (Clutch Shaft) 57-3642 Shock Housing (Clutch Cover) 70-8782 Primary Fill Cap O'ring 70-6570 Oil Pump To Chaincase O'ring 57-3644 Pullrod 60-3500 57-3634 High Gear Seal Inside (5-spd) Countershaft Sprocket Seal (4-spd) Countershaft Sprocket Seal (5-spd) 60-3510 Countershaft Sprocket o-ring(5-spd) Shifter Spindle O'ring 71-1070 70-3309 Gear Shifter O'ring Gear Shifter Quadrant Spindle O'ring Gear Shifter Spindle Seal (T160) 60-3530 37-3761 60-4442 60-4504 Cross Shaft Seal (T160) 60-4419 Cross Shaft O'ring (T160) 57-1956 Kick Shaft Seal con't next page

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	71-1070 97-1500 97-4001	Oil Filter O'ring Fork Seal Steel Leg (All) (Or 97-1500/Lp Leakproof) Fork Seal Alloy Leg (All) (Or 97-4001/Lp Leakproof)
æ	NORTON 78 06-2726 06-3609 06-7510 06-6190 04-8023 06-7567 67-0674 04-0006 04-0129 04-0079 06-5183 01-2443 06-5956 06-5181 04-0005 06-6145 06-4704 06-1282 06-5203 06-5483	50-850 COMMANDO Valve Stem Seal (All) Point Seal (All) Oil Pump Seal (Pre Mk III) Oil Pump Seal (Mk III) Crank Seal (Timing Side) (All) Crank Seal (Drive Side) (All) Countershaft Sprocket Seal (All) Shifter (Pawl Carrier) O'ring (Pre MkIII) Outer Gearcase Quadrant/Shifter O'ring (All) Rachet Spindle O'ring (All) Cross Shaft Inner Primary (Mk III) Hi-gear Felt Seal Inner Primary (Non Mk III) Hi-gear Seal - Inner Primary Cover (Mk III) Kicker O'ring (Pre Mk III) Kicker O'ring (Pre Mk III) Kicker Seal (Mk III) Tach Drive O'ring (Pre Mk III) Tach Drive O'ring (Mk III) Fork Seal - Alloy Leg (All) (or 06-5483/LP Leakproof Brand)
SD	BSA A50-A 68-0026 70-4568 67-0674 57-0946 70-4578 70-8782 97-2641 97-1500 97-4001	55 Point Seal '62-69 Point Seal '69-on Crank Seal (Drive Side) Countershaft Sprocket Seal Clutch Door Seal Primary Fill Cap O'ring Fork Seal '59-69 Fork Seal - Steel Leg '69-on (or 97-1500/LP Leakproof Brand) Fork Seal - Alloy Leg (All) (or 97-4001/LP Leakproof Brand)

LOCK TAB KITS





Tri 500 II's Complete Engine '59-on Tri 650 II's Complete Engine '63-73 Tri 750 II's Complete Engine '73-79



INDIVIDUAL LOCK TABS								
MAKE/ MODEL:	CRANK LH/ ROTOR	MS LH/ CL HUB	COUNTER SPROCKET	MS RH/ KICK PIN	OIL PUMP PINION	SWING ARM	SIDE STAND	CENTER STAND
BSA-TRI 250 I's BSA A50/A65 ¹ TRI 500 to '67 TRI 500 '67-on	68-0325 68-0325 70-3975 70-3975	40-3221 42-3191 57-1046	40-3121 40-3121 57-2056 57-2056	40-3257 68-3301 57-2240 57-2240	40-0455 67-0644 	⁷ 82-7343	 82-3096	 82-4484 82-4484
TRI 500 TR5T (Only) TRI 650 thru '67 TRI 650 '68-70	70-3975 70-3975 70-3975	57-1046	57-2056 57-2116 ⁶ 57-2116	57-2240 57-2240 57-2240		82-5944 82-5944	82-3096 ²	82-4484
TRI 650 '71-72 (4-spd) TRI 650/750 II's thru '78 ⁵ TRI 750 II's '79-on ³ TRI-BSA III's ⁴	70-3975 70-3975 21-7024 70-8785	 	57-2116 57-4909 57-4909 57-4909	57-2240 57-2240 57-2240 57-2240	 	83-2266 82-2266 82-5944	 	
COMMANDO	06-7894		04-0076					

1NOTE: 67-0685 CAM GEAR (All)

2NOTE: to '67 ONLY

³NOTE: 57-7076 TSS MAINSHAFT RH (Also ALL 57-7077 (Heavy Duty) MAINSHAFT - RH Side) ⁴NOTE: 57-3941 SHOCK TAB; 57-3720 CLUTCH DRIVE PLATE; 71-1129 CENTER MAIN BOLTS

NOTE: 5-spd MODELS ONLY

*NOTE: 1963 DOES NOT use CounterShaft LOCKTAB - RECOMMEND USING LOCKTITE or a Light PEEN ***NOTE:** BSA A65/A50 '68-70 Order 42-4364; '71-on Order 83-2266



ALLEN SCREW KITS							
MAKE/MODEL:	PRIMARY	TIMING	INNER TIMING	TRANS	PRI & TIMING & TRANS	ROCKER	
BSA C15,B40,C25,B44 ('64-68) BSA C25,B44 (69-on) BSA B50SS,B50T ('71-on) BSA A7/A10 ('53-63) BSA A50/A65 ('64-68) BSA A50/A65 ('69) BSA A50/A65/A70 ('70-73) BSA ROCKET III (All)	MAP3014 MAP3016 MAP3071 MAP3081 MAP3083 MAP3085 MAP3087 MAP3092	MAP3013 MAP3015 MAP3070 MAP3080 MAP3082 MAP3084 MAP3086 MAP3090	MAP3013/I MAP3015/I MAP3015/I MAP3082/I MAP3084/I MAP3084/I	 MAP3091	MAP3130 ^{4,6} MAP3131 ⁶ MAP3132 ⁵ MAP3133 ⁴ MAP3134 ⁴ MAP3135 ⁴ MAP3136 ⁴	 	
TRI TIGER CUB ('60-63) TRI TIGER CUB ('64-69) TRI TR25W (thru '67) TRI TR25W ('69-on) TRI 500 P-U TRI 350/500 II's ('59-68)	MAP3012 MAP3012 MAP3014 MAP3016 see note ¹ MAP3022	MAP3010 MAP3011 MAP3013 MAP3015 see note ¹ MAP3020	 MAP3013/I MAP3015/I 	 see note ¹ MAP3021	 MAP3130 ^{4,6} MAP3131 ⁶ see note ² MAP3110 ⁴	 	
TRI 500 II's ('69-74) TRI 650 P-U T110/T120 TRI 650 ('63-68) TRI 650/750 II's ('69-80) TRI 750 II's ('81-on)	MAP3025 see note ¹ MAP3032 MAP3035	MAP3023 see note ¹ MAP3030 MAP3033		MAP3024 see note ¹ MAP3031 MAP3034 	MAP3111 ⁵ see note ² MAP3114 ⁵ MAP3115 ⁵ MAP3116 ^{5,7} MAP311758	 MAP3038 ^{3,5} MAP3038 ^{3,5}	
TRI T150 TRIDENT TRI T160 TRIDENT NORTON 500,600,650 & ATLAS	MAP3042 MAP3045	MAP3040 MAP3043 MAP3060 ⁵		MAP3041 MAP3044 MAP30624	MAP311750 MAP31185,8	MAP3068 ⁵	
 'NOTE: For PRE-UNIT (P-U) Triumph Individual KITS - See BELOW: 500 II (46-59) 650 II (51-62) TMINIG COVER - Order MAP3001 5T, 6T, (48-51) T100 (48-59) T10 (54-59) TR6 (55-59) PRIMARY COVER - Order MAP3003 5T, 6T (51-54) PRIMARY COVER - Order MAP3004 5T (55-58) 6T (55-62) PRIMARY COVER - Order MAP3005 5T, 6T (51-54) PRIMARY COVER - Order MAP3005 5T (55-58) 6T (55-62) PRIMARY COVER - Order MAP3005 5T (55-58) 6T (55-62) PRIMARY COVER - Order MAP3006 5NOTE: For PRE-UNIT (P-U) TRIUMPH COMPLETE ENGINE SETS - See BELOW: 500 II's 54-58 - ORDER MAP3102 - ADD ''C' for CHROME 650 II's 10' 54-62 - ORDER MAP3103 - ADD ''C' for CHROME 650 II's 10' 54-62 - ORDER MAP3103 - ADD ''C' for CHROME 650 II's 110' 54-62 - ORDER MAP3103 - ADD ''C' for CHROME 7NOTE: USED ONLY ON TRI 650/750 II's '71½-on with OVAL ROCKER COVERS (4 or 6 SCREW TYPE - MOST 5-spd) 'NOTE: KITS AVAILABLE IN CHROME + ADD ''C' for CHROME or '/S' for STAINLESS to PART NUMBER *NOTE: KITS AVAILABLE IN CHROME + ADD ''C' for CHROME or '/S' for STAINLESS to PART NUMBER *NOTE: KIT ALSO INCLUDES OIL CHECK & ELECTRIC START SCREWS *NOTE: KIT ALSO INCLUDES OIL CHECK & ELECTRIC START SCREWS *NOTE: KIT ALSO INCLUDES OIL CHECK & ELECTRIC START SCREWS *NOTE: KIT ALSO INCLUDES OIL CHECK & ELECTRIC START SCREWS *NOTE: KIT ALSO INCLUDES CLUTCH ADJUSTING COVER SCREWS *NOTE: KIT ALSO INCLUDES CLUTCH ADJUSTING COVER SCREWS *NOTE: KIT ALSO INCLUDES CLUTCH ADJUSTING COVER SCREWS *NOTE: KIT ALSO INCLUDES SCHER SCREWS MAP3069 POINT COVER ALLENS - TRIUMPH I's & II'S (Also Available in CHROME ''/C' & STAINLESS '/S'') MAP3160 POINT COVER ALLENS - TRIUMPH I's & II'S (Also Available in CHROME ''/C' & STAINLESS '/S'') MAP3200 POINT PLATE ALLENS - PLATE USING 54419827 POINTS (6) MAP3220 POINT PLATE ALLENS - PLATE USING 640271 POINTS (8) MAP3220 POINT PLATE ALLENS - 4BA THREAD (ea.) MAP3200 POINT PLATE ALLENS - 4BA THR							
<u> </u>		ACORN	NUTS ¹		\bigcirc		
CA1032 10 X 32 CA1024 10 X 24 CA2528 1/4 X 28 CA2520 1/4 X 20 CA2526 1/4 X 26 CA3124 5/16 X 24* CA3118 5/16 X 18 CA3126 5/16 X 26 CA3724 3/8 X 24* CA3716 3/8 X 16 CA3726 3/8 X 26 CA4320 7/16 X 20 CA4314 7/16 X 14 CA4326 7/16 X 26 CA5020 1/2 X 20 CA5013 1/2 X 13 CA5026 1/2 X 26 CA5618 9/16 X 18 CA5013 1/2 X 13 CA7520 3/4 X 20 BSF (AXLI						3SF (AXLE)	
NOTE: Order SA3124 for 5/16 x24 Stai 7165 30th	nless and/or SA37	724 for 3/8 x 24 St orth	ainless ADD "/P" f St. Peters	or Polished burg, Flori	da 33710	25	

m.a.p. Cycle Enterprises, Inc.

		ULARN		CADLES'		, 14 //
MAKE/ MODEL:	CHOKE (TOP)	CHOKE BOTTOM	THROTTLE (TOP)	THROTTLE BOTTOM	CLUTCH	FRONT BRAKE
BSA B25 ⁶						
A50/A65/A70 w/Monobloc Carb w/Single Concentric w/Dual Concentric to 1968 with Steel Levers Alloy Levers 1968 with Steel Levers Alloy Levers 1970-on	68-8514 (33") 60-0815 (37") 60-0823 (23")	 60-0826 (11")	68-8678 (41") 60-0804 (38") 60-0813 (38")		60-2081 (53") 60-2080 (54") 60-2081 (53") 60-2080 (54") 60-3077 (48")	68-8600 (SLS) 68-8770 (Star Adjuster) 60-0858(L)/68-8600(T) 60-0861(S,F) 60-2076(70)/60-3557(71-on)
A75R 1969-1970 1971-1972	60-1968 (60") 60-3566 (12")	¹ 60-2061 (10")	60-0890 (39") 60-0890 (39")		60-2445 (53") 60-2445 (53")	60-2076 (36") 60-3557 (41")
TRIUMPH 250'68-on T100SS'59-62 T100'63 3TA:5TA'64 T90:T100'64 T100R'65-66 T100R'67 T100C'67 T100C'68 T100C'69-70 T100C'71-72 T100C'71-72 T100C'71-72 T100C'73-74 T120:TT'63-67 TR6'63-67 6T-63-67 T120'68 TR6'68 T120'68 TR6'69-70 T120'71-72 T140'73-74 T140'73-74 $T140'73-78\frac{1}{2}$ $TR7'73-78\frac{1}{2}$ $T140'78^{1}/2 - on (MKII)$ T140'81-on (BING) T150'69-70 T150'73-74 T160'75-76	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	 60-0745 (08") 60-0745 (08") 60-0745 (08") 60-0745 (08") 60-0684 (11") 60-0684 (11") 60-0684 (11") 60-3486 (18") 60-7084 (15") 60-7084 (15") 60-7084 (15") 60-705 (13") 60-2061 (10") 60-2061 (10") 60-2061 (10")	$\begin{array}{c} 60-0962 \ (34")\\ 60-0410 \ (38")\\ 60-0410 \ (38")\\ 60-0532 \ (42")\\ 60-0495 \ (40")\\ 60-0495 \ (40")\\ 60-0495 \ (40")\\ 60-07495 \ (40")\\ 60-07495 \ (40")\\ 60-0735 \ (41")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-1822 \ (43")\\ 60-0519^2 \ (39")\\ 60-0495 \ (40")\\ 60-0746 \ (40")\\ 60-0746 \ (40")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-1819 \ (43")\\ 60-7427 \ (23")\\ 60-0890 \ (43")\\ 60-0890 \ (43")\\ 60-0890 \ (43")\\ 60-0890 \ (43")\\ 60-0890 \ (43")\\ 60-0890 \ (43")\\ 60-4458 \ (42") \end{array}$	 	60-2083 60-0408 (51") 60-0466 (47") 60-0466 (47") 60-0466 (47") 60-1994 (47") $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^9$ $60-0565 (47")^10$ $60-3079 (47")^{10}$ $60-3079 (47")^{10}$ $60-3079 (47")^{10}$ $60-3079 (47")^{10}$ $60-3925 (50")^{10}$ $60-3925 (50")^{10}$ $60-3925 (50")^{10}$ $60-3925 (50")^{10}$ 60-2445 (53") 60-2445 (53") 60-2445 (53")	5 60-0419 (37") 60-0419 (37") 60-0419 (37") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-0560 (36") 60-2076 (36") 60-2076 (36") 60-2076 (36") 60-2076 (36") 60-0559 (39") 60-0559 (39") 60-0559 (39") 60-0559 (39") 60-0655 (36") 60-2076 (36") 60-2076 (36") 60-2076 (36") 60-2076 (36") 60-3557 (36") 60-3557 (36") 60-3557 (36") 60-3557 (36") 60-3557 (36") 60-3557 (41")
NORTON ⁴ COMMANDO '68-70 COMMANDO ³ '71-72 COMMANDO ³ '73-74 COMMANDO MKIII	03-0908 (23") 03-0908 (23") 03-0908 (23") 06-1451 (26")	03-3144 (11") 03-3144 (11") 03-3144 (11") 06-8105 (11")	03-1612 (23") 06-1451 (26") 06-1451 (26") 06-6341 (26")	03-3145 (11") 03-3145 (11") 03-3145 (11") 06-8106 (11")	$\begin{array}{c} 06\text{-}6477\ (51")^{11}\\ 06\text{-}6477\ (51")^{11}\\ 06\text{-}6477\ (51")^{11}\\ 06\text{-}6477\ (51")^{11} \end{array}$	06-0918 ¹² (37") 06-2491 ¹² (37")
Footnotes: *NOTE: 60-2060 (12"-RH): 60-2061 (10"-CENTER): 60-2062 (9"-LH) or Use 3 of 60-2061 *NOTE: Use 60-0746 (TR6) or 60-0660 (T120) for 1967¼ When Used w/CONCENTRIC CARBS (Except 1 into 2 Types) *NOTE: Use 60-0746 (TR6) or 60-0660 (T120) for 1967¼ When Used w/CONCENTRIC CARBS (Except 1 into 2 Types) *NOTE: Use 60-0746 (TR6) or 60-0660 (T120) for 1967¼ When Used w/CONCENTRIC CARBS (Except 1 into 2 Types) *NOTE: 06-0482 COMMANDO REAR BRAKE (ALL - NOT MKIII) *NOTE: 250 BRAKE CABLES: 60-3390, 71: 60-2034, '69½-70: 60-2076, EARLY '69: 60-0962, '68 *NOTE: See Below for Miscellaneous Cables for BSA I's: 40-8516 B40/B44 MONOBLOC CARB 60-2083 B25/B40/B44 Front BRAKE '64-67 (NOT '64-65 "SS") 1-2 244/104 60-3750 B44/B50 EXHAUST LIFTER '66-on 1-2 244/2080 *NOTE: 1967 T100R Uses 60-0528 1-2 MAP00060 (Alloy "Long-Throw") *NOTE: See 60-4168 (Heavy Case), 60-4168/E or MAP0002S for Short "EURO" Bars: See MAP0002L for High Bars *NOTE: Use 06-0924 Euro Bar (32") wo/switch or 06-1076 Euro Bar (32") w/switch 1-2 MAP00002L for High Bars *NOTE: Use 06-0924 Euro Bar (32") wo/switch or 06-1076 Euro Bar (32") w/switch 1-3 1-3						
126 71	65 20th Av	onuo North	C+	Potorsburg	Elorido 227	10

100% Guaranteed to be the Best Cable available Anywhere !! Braided Stainless Steel Inner Cable runs inside a Teflon Lined Outer Case with Brass ends, to make these cables the Absolute Finest and Easiest to Pull. Totally Unbeatable, they can Actually be Tied into Three Knots and Still Easily Pushed or Pulled. Proudly Made in the U.S.A. Especially for T.R.P. Cycle. **BRAIDED STAINLESS Note:** Barrel End MUST be Lubricated with Water Insoluble Grease & CABLES¹ Ride in a "Gall Free" Lever else Cable WILL Fray & Break! Note: All cables are measured by outer housing (case) length CLUTCH Triumph 500 ('59-on): 650 ('63 thru '67) Triumph 650/750 II's ('68-on) MAP0002S² 46" Case MAP0002² 51" Case MAP0002L² 56" Case 40" Case (most 500's) 45" Case (most 500's) 46" Case (most 650's) MAP0003S MAP0003 MAP0001S 51" Case (most 650's) MAP0001 56" Case (most 650's) MAP0001L BSA A50/A65/A70 ('70-on) BSA A50/A65 (thru '69) MAP0007 55" Case MAP0008² 48" Case 60" Case 53" Case MAP0008L² MAP0007L **NORTON COMMANDO (all)** MAP0009² 53" Case 58" Case MAP0009L² MAP0009S² 49" Case 1NOTE: For CLARKS & OTHER Cables - See Page 26 or O.E. Numbers on website ²NOTE: Includes 57-1646 Cable Boot Triumph/BSA III's (all) 51" Case MAP0010 56" Case MAP0010L THROTTLE Fits MOST AMAL/Mikuni Models (35" Case) Fits MOST AMAL/Mikuni Models (40" Case) Fits MOST AMAL/Mikuni Models (45" Case) for "XXL" see MAP0005L 50" OA (Case + included Junction) MAP0004S3 MAP00043 MAP0004L³ Mikuni VM30-36mm - 40" Teflon Lined with Chrome Screw-in Elbow (Replaces OE Mikuni Adjuster) Mikuni VM30-36mm - 45" Teflon Lined with Chrome Screw-in Elbow (Replaces OE Mikuni Adjuster) MAP0551 ew MAP0552 Mikuni VM30-36mm - 35" Teflon Lined with Chrome Screw-in Elbow (Replaces OE Mikuni Adjuster) MAP0553 Z 1 into 2 (AMAL MKII/Mikuni 30-34mm) 40" OA (Case + included Metal Junction) 1 into 2 (AMAL MKII/Mikuni 30-34mm) 45" OA (Case + included Metal Junction) MAP0005S MAP0005 1 into 2 (AMAL MKII/Mikuni 30-34mm) 50" OA (Case + included Metal Junction) MAP0005L MAP0006 1 into 2 (AMAL Concentric) 44" OA (Case + included Stock Junction) 1 into 3 (Mikuni 26-28mm) inq. 1 into 3 (Mikuni 26-28mm) 43" OA (Case + included Stock Junction) **MAP0558S** MAP0558 1 into 3 (Mikuni 26-28mm) inq. MAP0558L **REAR BRAKE** 06-0482³ NORTON COMMANDO 42-7042³ A10 BSA **UNIVERSAL** (Clutch/Brake) MAP0044 60" (Use with MAP0050 Adapter (shown below) ³NOTE: If using EM771 Single Throttle must use with 99-0241 Stock Type Split Ferrule (Not included) CABLE/LEVER HARDWARE 99-0241 99-0241 FERRULE, Split Throttle 5/16 X 5/8" Long B1016 SLIDING ADJUSTER & NUT (BARNETT/DOHERTY/STOCK) Omm Smaller Thumb-nut for a Much Nicer, More CUSTOM Look!! B1016 60-3585/6 SLIDING ADJUSTER & NUT (Stock Type) Triumph Unit II's & III's MAP0050 ADAPTER Kit, Front Brake Cable (Universal) (\mathbf{O}) GasTank Mounting Rubbers 2) 82-5228 Front Upper 57-1646 BOOT - Cable to Trans (MOST Triumph/Norton/BSA) MAP0050 2) 82-5229 Front Lower 1) 82-0967 Rear Upper 57-2062 SPACER, Abutment 1/2" TALL - Triumph/BSA 500/650 thru '67 1) 82-5336 Rear Lower 57-2063 SPACER, Abutment 3/4" TALL - Triumph/BSA 500/650 thru '67 57-1646 GasTank Mounting Hardware: ABUTMENT - Triumph UNIT II's thru 1967 57-1644 82-1808 Front BOLT (Early) 57-2062 57-3784 ABUTMENT - Triumph 500 1968-on 21-1883 Front STUD(Late) 57-2063 57-2540 ABUTMENT - Triumph 650 II's 1968 (CEI Cable Adjuster Thread) 14-1302 Stud NUT (Late) 57-3762 ABUTMENT - Triumph 650/750 II's 1969-on (UNF Cable Adjuster) 57-1644 82-7388 Rear BOLT (all) 57-3784 82-3814Stud/Bolt CUP (all) NOTICE: For LEVER ASSEMBLIES & TWIST GRIPS - See Page 29 & 79 7165 30th Avenue North St. Petersburg, Florida 33710 Phone (727) 381-1151 FAX (727) 347-9469

		r. u	YLIC	Linerprided, a				
LEVERS B2071L B2071R C B2077R B2077L C B2077R C B2077R B3165L C B3165R C		CLUTCH LEVER 1" w/Adjuster (BARNETT) BRAKE LEVER 1" w/Adjuster (BARNETT) CLUTCH LEVER 7/8" w/Adjuster (BARNETT) BRAKE LEVER 7/8" w/Adjuster (BARNETT) LEVER SET (Brk & Clt) w/Mirror Holes (UK) BRAKE LEVER w/CHOKE ASSEMBY (Pattern) CLUTCH LEVER 1" HARLEY STYLE (BARNETT) BRAKE LEVER 1" HARLEY STYLE (BARNETT)						
	THROTTLES	B1016 60-35	5 85/3586	ADJUSTER & THUMBSCREW (Slide-In TYPE) BARNETT ADJUSTER & THUMBSCREW OE (MADE in UK)				
		60-7014/P EM771 ¹ EM761 ¹		SINGLE THROTTLE (Very Nice Copy of 364 Amal) SINGLE THROTTLE 7/8" NICELY CHROMED SINGLE THROTTLE 1" NICELY CHROMED				
О.	EM71178 GRIPS	EM71 B7133 ¹ Requ	178 l ires 99-02	DUAL THROTTLE 7/8" NICELY C DUAL THROTTLE 1" (BARNETT 241 cable stop for all British applic	HROMED `) ations			
		J0101	GRIPS, "S GRIPS, "S	TREET" BLACK 7/8" BARS (Hand UPERBIKE" BLACK 7/8" BARS (Si	Contour) pr.			
		J0105 J0106	GRIPS, SN GRIPS, SN	MOOTH DENSE BLACK FOAM w/C MOOTH DENSE BLACK FOAM w/C	Chrome Ends 7/8" Bars Chrome Ends 1" Bars pr.			
		J0107 J0108 06-7093	'GRANTU 'BESTON' 'Grand To	RISMO" (GT) BLACK 4½" LONG (Fit ' 5.2" Long pr. ouring" Italy pr	s OE Bars & Throttle)pr.			
		PVC78 PVC1 PVC118	GRIP, BLA GRIP, BLA GRIP, BLA	ACK PVC 7/8" ea. (Will NOT Black ACK PVC 1" ea. (Will NOT Black ACK PVC 1-1/8" ea. (Will NOT Blac	cen Hands) cen Hands) ken Hands)			
	STOCK NDLEBARS	42-4980 42-4968 97-1484 97-1870 97-1871 97-4252 97-7205 97-7040 97-7041 97-7041 97-4651	BSA II's BSA II's TRIUMP TRIUMP TRIUMP TRIUMP TRIUMP TRIUMP TRIUMP	'71-on (Oil-in-Frame) thru '70 (All USA) H T120 (Low "Euro") '63-on H T100/T120/T150 Western '66-7 H T120 '65-70 Low (Drilled) H T120 '66-72 (USA Western '71-7 H T140 '73 to 79/T150 '73-74 USA H T140E, T140D '79-on H/BSA T140/T160/A65 (Low "Eur	0 (Drilled for Wiring) 2), T150 '69-72 A '80-on o")			
HA	ANDLEBAR PARTS	06-1046 06-5748	NORTON	N COMMANDO (USA) N COMMANDO (Low "Euro")	New: 7/8" Clip-Ons 33 - 34 - 35 mm chrome or black			
1	PINCH BOLT	97-1340 21-0589	PINCH PINCH	BOLT (P-CLAMP thru '69) BOLT (P-CLAMP '70-on)	Inquire			
	PINCH BOLT WASHER	82-1335	WASHE	CR, Pinch Bolt (P-CLAMP)				
	P-CLAMP	97-2291 ¹	P-CLAN	/IP (Handlebar Eyebolt) All				
		97-1425	REDUC	CER, Handlebar to P-Clamp - (Sold	Each ½'s)			
٩	CONICAL WASHER	97-1708 ² 97-1529 ³	WASHE WASHE	CR, Flat (Top (Early) CR, Conical (Top & Bottom (Latest)				
	SLEEVE	97-1581 4	SLEEV	E (Fits in Steady Rubber)				
	STEADY RUBBER	97-1580 4	STEAD	Y RUBBER				
	CUP	82-3814 97-2221 ⁵	CUP (H CUP (H	olds Study Rubber) - Tri 650 '67-6 olds Study Rubber)	8			
U	METALASTIC BUSH	97-1527 97-1616	BUSH, SOLID	Metalastic (Fits in Top Tree - All U SPACER (Replaces Metalastic Bush	sing P-Clamp) n) ea. (Reqs 4)			
Q	CONICAL WASHER	97-1529 ³	WASHE	ER, Conical (Top & Bottom (Latest)	SOLID MOUNTING SPACERS			
Ŷ	NUT	82-3955 14-1903	NUT (P- NUT (P-	-Clamp thru '68) -Clamp '69-on)				
Shown for Mos BSA A50/A65 Tri 500 II's Tri 650/750 II's Tri/BSA III's		¹ NOTE: Use v ² NOTE: Use in ³ NOTE: All B ⁴ NOTE: Use in ⁵ NOTE: Use in	vith 21-0589 n Tri 650 thru ottom: Top T n Tri 650 '67- n Tri 650 '69-	BOLT & 14-1903 NUT as #97-1523 EARLY P-0 '66: TRI 500 thru '69 ri 650 '67-on, Tri 500 '70-on, BSA A50/A65 '71- on: Tri 500 '70-on: BSA A50/A65 '71-on on: Tri 500 '70-on: BSA A50/A65 '71-on	CLAMP is NLA			
28	7165 30th Av Website: www	venue No	rth m Email:	St. Petersburg, Florida 3 sales@mapcycle.com Phone (727) 381-17	3710 3 710			



EXHAUST PIPES (Excellent USA Chrome - No Crossover)

• • • Triumph 650 Pipes will fit T140's & BSA A65 with M.A.P. In-Head Adapters on Page 43 • • •





STOCK ("ST") STYLE HEAD PIPES

181339 TRI 650 1¹/₂" Pipe (Tabbed) (Not for old ARD) M.A.C.

70-5957/8/P

TRI 650 1¹/₂" Pipe (Tabbed - Over Spigot - No X-Over)

181024 COMMANDO 750/850* 1¹/₂" *(Kick-up)* **Pipe** M.A.C. (*MKIII Req's 4 #06-3990 Collet & 2 #06-3995 Gasket)

180133 BSA A50/A65/A75 1¹/₂" Pipe (Tabbed) M.A.C.

Original Style Exhaust with CROSS-OVER (Made in USA) 181355 TRI 500 Twin - '59-on Over Spigot Type 1.5" (M.A.C.) 181125 TRI 500 Twin - '71-on In-Head Type (M.A.C.) 181345 TRI T120/TR6 650 - '63-on Over Spigot (M.A.C.)

2 INTO 2 PIPE & MUFFLER SET (M.A.C.)

008-0133	TRI 650 1¾" Pipe
008-0233	TRI 750 II's 1 ¹ / ₂ " Pipe (In-Head Type)
007-0133	COMMANDO 750 1 ¹ / ₂ " Pipe
	(Pre MKIII Requires 2 MKIII Collets & Washers)







"TT Special" Style with Megaphone MUFFLERS (M.A.C.)

Ň	008-0320
11	008-0620
	008-0420

TRI 500 $1\frac{1}{2}$ " "In Head" Pipe TRI 650 $1\frac{3}{4}$ " "Over Spigot" Pipe TRI 750 $1\frac{3}{4}$ " "In Head" Pipe

"TT Special" Style with CUSTOM MUFFLERS (M.A.C.)

7165 30th Avenue North St. Petersburg, Florida 33710 Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

2-BEND "TURN-OUT" DRAG PIPES



"TT" STYLE HEAD PIPES (Req's 2 "P" Style Mounting Clamps)

181351 TRI 500 II's 1¹/2" Pipe (Straight-cut End) M.A.C

 1812141
 TRI 650 1¾" Pipe (Straight-cut End) M.A.C.

 1814202
 TRI 650/750 II's 1¾" Pipe (Straight-cut End) (In Head Type) M.A.C.

¹Fits 750II's when converted to "over the spigot" style. Note: Once mounted, pipes will hang about 3/8" lower than stock ²Not "T140D"

> 2-BEND "DRAG STYLE" PIPES (Over-Spigot Type - Straight-Cut ends)

- PT107 TRI 500 II's 1½" 2-BEND Chrome An TRIP Cycle EXCLUSIVE (Recomment Mounting Clamp (S0032) & Strap (S0204)
- PB120BSA A65-A50-A701½" 2-BEND Chrome
An TAP Cycle EXCLUSIVE
(Recommend Mounting Clamp (S0032) & Strap (S0204)

3-BEND "SLASH-CUT" DRAG PIPES

008-0106* TRI 650 II's 1¾" Pipe 3-Bend (M.A.C.) **008-0207* TRI 750 II's 1¾" Pipe 3-Bend** (M.A.C.) *(NO Bottom Mounting Clamp(s) Required)

2 into 1 SYSTEMS

M.A.C. Bolt-on Exhaust System Designed For Improved Low and Mid Range. Retains Center Stand. Good Looking. Upswept Contour. Great Sound. Made in USA **TRIUMPH 650/750**

 NORTON COMMANDO

 007-0103
 750/850⁴ - Chrome

 ⁴For MKIII Use with NORTON Pre-MK III Collet #06-06-3990 (4ea) & Gasket #06-3995 (2ea)











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BSA	•			STOCK
40-2845	C25, B25	1967-69	F	REPLACEMENT
71-2176	B25 ·····	1971-72		EXHAUST
70-9677	B44 VICTOR SPECIAL	1969-70		Ui Lovol (Dicola)
68 0706 /0710	A50 A65	1971-73	0 FT	HI LEVEL (BLACK)
68-2789/2791	A50, A65	1965-65	SET	Fits thru '70
70-9127/9130	A50, A65	1969-70	SET	for Balance Tube**
71-2043/2045	A65	1971-72	SET	for Balance Tube**
70-9460/9461	A75 (For "Flash Gordon" Type Mufflers)	1968-70	SET	w/Manifold
71-2455/2457	A75 (For Cone Type Mufflers)	1971-73	SET	w/Manifold
NORTON				
06-7850/7851	ATLAS '63-68: 650SS '62-66 (Large Bore)	1062 69	OFT	<i>f</i> ^a
06-0620/0621	COMMANDO ALL (Note : Avail in "/P" Pattern)	1903-08	SEI	P
06-1320/1323	COMMANDO SCRAMBLER "S"	1900-70	5D1	
06-1606/1607	COMMANDO 750 FASTBACK, ROADSTER, HI-RIDER	1971-74	SET	
	INTERPOL	1971-72	SET	
06-3299/3240	COMMANDO 750 INTERSTATE, INTERPOL	1972-74	SET	f D . 1
06-3997/3998	COMMANDO 850 KOADSTER, HI-RIDER (Not MKIII) ····	1972-74	SEI	for Balance Tube**
06-5256/5257	COMMANDO 850 MKIII (Electric Start)	1975-76	SET	for Balance Tube**
триимри				5 JC
71-2176	T25SS, T25T	1971-72		BI
70-3992/3994	T1005TA, T100SS	1959-67	SET	IT b
70-5325/5327	T90('64-67), T100R, T100T (Low Bracket)	1967	SET	
70-7637/7638	T90, T100R, T100T (Low Bracket)	1967-68	SET	
70-7020/7022 71-0017/0019	T100C	1907-08	SEI	KH & LH "UP" Type
70-9662/9663	T100R, T100S, T100T	1969-72	SET	for Balance Tube**
71-2622/2623	T100R (Over Spigot Style)	1971-721/2	SET	for Balance Tube**
71-2628/2629	T100R (In-head Style Only - w/1 ¹ / ₂ " Outlet)	19721/2-74	SET	for Balance Tube**
71-3803/3807	T100 (w/1-3/8" Outlet)	1974	SET	for Balance Tube**
71-3704/3705		1973-74	SEI	3-Pieces
70-3350/3420	51, 61 T110	1955-59	SET	2.4
70-3628/3632	T110, T120	1958-59	SET	
70-3632/4133	T110, T120	1960-62	SET	
70-4716/4718	6T, T120 ('64 TR6)	1963-64	SET	Bottom Mtg Tabs
70-5957/5958	T120, T120R, TR6, TR6R	1965-68	SET	Front Mtg Tabs
70-3937/8/F		1905-08	SET	FIOIL MIG TADS
71-0022/0024	TR6C (Over Spigot Style)	1969-721/2	SET	LH Exit for Balance Tube
71-2334/2632	TR6C (In-head Style)	1972½-on	SET	LH Exit for Balance Tube
70-9363/9364	T120, T120R, TR6, TR6R (Over Spigot Style)	1968-72½	SET	for Balance Tube**
71-2636/2637	T120RV, TR6RV (In-head Style)	1972½-on	SET	for Balance Tube**
71-3506/3509	T140V, TR7RV (In-head Style w/1 ¹ / ₂ " Outlet)	1973	SET	for Balance Tube**
71-3755/3758	T140V, E TR'/RV (In-head Style w/1-3/8" Outlet)	1974-80	SET	for Balance Tube**
70-7206	T140D COLLECTOR ONLY (NO DIDES)	1979	SEI	
71-7507/7508	T140V OVER SPIGOT (Fits '73-80 w/MAP6310 Adapters)	1981-83	SET	for Balance Tube**
70-9463/SET	T150 (For "Flash Gordon" Type Mufflers)	1968-70	SET	w/Manifold
71-2451/SET	T150 (w/1 ¹ / ₂ " OUTLET for SHORT CONÉ MUFFLER)	1971-72	SET	w/Manifold
71-3812/SET	T150 (w/1-3/8" OUTLET for LONG CONE MUFFLERS)	1973-74	SET	w/Manifold
10-1391 71_2007/SFT	1150 MANIFOLD ONLY X75 "HURRICANE"	1908-75 1973	SET	3 Pines
71-4424/SET	T160	ALL	SET	w/Collector
71-4407	T160 COLLECTOR ONLY	ALL		/
MAP7800*	CONVERSION T140 In-Head Pipes for "CLASSIC" T12	0 Mufflers	(x-ove	r type)
MAP7805*	CONVERSION T140 Over-the-Spigot HeadPipes for "C	LASSIC" T	Ì20 M	ufflers (x-over)
*Requires MAP7820) Special Conversion Mufflers	, CT	ЛЛГ	SF FYUATIOT
^*Crossover is sold	separately as well as any mounting Clamps - Please order separate	ay SI		SE EARAUSI
		-57)	9	- A
			\$	TRI 650
68-2734 H	3SA A50/A65/A70 (11/2" Outlet)	111 300		
08-2/34/16 1 68-2734/T5 7	KIUMPH 050 (1 ½ Outlet)			BSA
32	(165 30th Avenue North St. Petersbu Website: www.mapcycle.com Email: sales@mapcycle.com	rg, Flori Phone (727	da 33) 381-11	8710

TH.A.P. Cycle Enterprises, Jnc. STOCK EXHAUST X-OVER PARTS

14-0204 14-0901 14-0219 14-1302 STOCK EX-I	NUT for DOUBLE CLAMP NUT for DOUBLE CLAMP BOLT for SINGLE CLAMP (All Single Clamps) (Req's 1) NUT for SINGLE CLAMP (All Single Clamps) (Req's 1) PIPE MOUNTING BRACKETS	Double CLAMP
70-3768 70-9626	D-WASHER for SINGLE CLAMP (ALL SINGLE CLAMPS) (Req's. 2) BOLT HOLE CAP for DOUBLE CLAMP BOLT for DOUBLE CLAMP	6
70-9368 70-9888 70-9888/SP 06-3994	X-OVER PIPE - TRI DOUBLE CLAMP TYPE X-OVER PIPE - TRI SINGLE CLAMP TYPE X-OVER PIPE - TRI NEW "PINCH DESIGN" NO CLAMPS NEEDED X-OVER PIPE - NORTON COMMANDO	
06-3991 70-9627 70-7512 70-7512/A 70-5874 70-5874/A 70-2271 70-2271/A 70-3767 70-3767/A	CLAMP - X-OVER NORTON CLAMP - X-OVER DOUBLE TYPE TRI-BSA CLAMP - X-OVER/EXHAUST/MUFFLER (1-3/8" SINGLE TYPE) CLAMP - X-OVER/EXHAUST/MUFFLER (1-3/8" SINGLE TYPE Comple CLAMP - EXHAUST/MUFFLER (1-1/2" SINGLE TYPE for 1-3/8" muffler CLAMP - EXHAUST/MUFFLER (1-1/2" COMPLETE) CLAMP - EXHAUST/MUFFLER (1-5/8" SINGLE TYPE for 1½" muffler CLAMP - EXHAUST/MUFFLER (1-5/8" SINGLE TYPE for 1½" muffler CLAMP - EXHAUST/MUFFLER (1-7/8" SINGLE TYPE for 1¾" muffler CLAMP - EXHAUST/MUFFLER (1-7/8" COMPLETE)	ete) er) "D" Washer) SINGLE CLAMP

70-7641	LH "L" MOUNTING BRACKET TRI 500 II's '68-on
70-7642	RH "L" MOUNTING BRACKET TRI 500 II's '68-on
70-6857	LH/RH "L"MOUNTING BRACKET TRI 650/750 II's (Unit)

CUSTOM HEADER CLAMPS

FINNED ALLOY

MAP6089 Norton Large Fin custom Conversion (fits over stock)

"NESS" STYLE CHROMED STEEL



S0407 Finless "**NESS STYLE**" SHOW CHROME (1³/₄"ID) pr. These "Super Clamps" are Designed to Replace Stock Triumph Export Clamps for that Custom Look. Can Be Used With Any 1³/₄" O.D. Pipe. Made From Heavy 1/8" Wall Cold Rolled Steel. Beautifully Chrome plated includes a Stainless Steel Allen Screw.

STOCK EXHAUST HEADER CLAMPS/PARTS © ©				٢
MAKE/MODEL:	FINNED CLAMP	CLAMP BOLT	CLAMP WASHER	CLAMP NUT
A50/A65 ALL T100 Chrome STEEL (CEI) T100 Chrome STEEL (UNF) T100 Push-In TYPE T120 Chrome STEEL thru '68 T120 Chrome STEEL '69-on T120/T140 Push-In TYPE T150 Chrome STEEL T160 Chrome STEEL	42-2848 70-4947 71-2466 70-4501 ¹ 71-0216 (/A ³) 71-2465* 70-6743 71-4459	$\begin{array}{c} 14 - 0609 \\ 70 - 0409 \\ 70 - 6744 \\ 21 - 0778 \\ 70 - 0409 \\ 70 - 6744 \\ 21 - 2230 \\ 70 - 6744 \\ 70 - 6744 \end{array}$	29-0541 70-8860 70-8860 70-8860 70-8860 60-2416 70-8860	14-1301 21-2186 21-0778
*NOTE: T140D Uses Screw-InClamp(71-7120) & Washer (71-7121) Can be Converted to "Over-the-Spigot" with Screw-in Spigot (70-9510)	71-7120) verted to (70-9510) 71-6744 FINNED COLLAR RETAINING COLLET CRUSH GASKET	LOCK TAB		
750 COMMANDO 850 COMMANDO 850 COMMANDO MKIII	06-2464 06-2464 06-3988	06-3990 06-5260	$\begin{array}{c} 06-3995 \\ 06-3995 \\ 06-3995^2 \end{array}$	06-2412 06-2412

¹Note: Use 70-4501/P (tai) or English #71-0216 (unf) Late Type Clamp, #14-0219 (unf) Bolt & #70-8860 Washer or #71-0216/A for a Complete Assembly ²Note: Also Requires CONICAL Hard WASHER #06-5259 ³Note: Also Requires CONICAL Hard WASHER #06-5259

³Note: English Made Complete Assembly Inc. Bolt, Nuts, & "D" Washers

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CUSTOM MUFFLERS MEGAPHONE MUFFLERS - M.A.C. 009-0413 MUFFLERS - 1-3/8" Bolt-On Kick-Up Style. Perfect for "Short Rod" T140/TR7 Triumph Twins 1973-on, inc. Brackets. (pr) **MUFFLERS** - 1-1/2" Bolt-On Kick-Up Style. 001-0113 Perfect for Older Triumphs, inc Brackets (pr) **009-0513K MUFFLERS** - 1³/₄" Bolt-On Kick-Up (pr) **MUFFLERS** - 1¹/₂" Bolt-On Straight (pr) 009-0312 009-0512 **MUFFLERS** - 1³/₄" Bolt-On Straight (pr) **DUNSTALL REPLICA's** Universal "Dunstall" Style Muffler Replica. Includes Clamps and Sliding Bracket. Nice Chrome. Sold Each. 80-84030 MUFFLER - Reverse Cone 18" OA (ea) 1-3/4" ID with 1-5/8", 1-1/2", 1-3/8" adapters 80-84051 MUFFLER - Reverse Cone 273/4" OA (ea) **80-84050 MUFFLER** - Classic "DUNSTALL" 27" OA (ea) 1-5/8" ID with 1-1/2",1-3/8" adapters 80-84050 (was EM84050) "POWER MUFFLER" (27¹/₄" O.A.) 80-84051(was EM84051 REVERSE CONE (27 3/4" O.A 80-84030 (was Em84030) SLEEK-SHORT DESIGN (18" O.A.) U.S.A. MADE M.A.C. MUFFLERS w/SLIDING STRAP 19" O.A.) **009-0310 MUFFLER** - Turnout - 1¹/₂" (ea.) **009-0510 MUFFLER** - Turnout - 1³/₄" (ea.) 009-0311 MUFFLER - Flare Tip - 11/2" (ea.) 009-0511 MUFFLER - Flare Tip - 1³/₄" (ea.) 18" O.A. 009-0314 MUFFLER - Slash Cut - 11/2" (ea.) 009-0514 MUFFLER - Slash Cut - 1³/₄" (ea.) STRAIGHT (181/2" O.A.) (18" O.A.) UPSWEPT (22" O.A.) 903-1321 MUFFLER - Taper Tip - 11/2" KICK-UP (pr) **905-1321 MUFFLER** - Taper Tip - 1³/₄" KICK-UP (pr) **TAPER TIP (Universal) MUFFLER** Sliding Bracket 80-25300 MUFFLER - Taper Tip 11/2" & 13/4" Chrome (16" O.A. Inc. Clamp (Inc. Adapter, Sliding Strap & Clamp) Sold ea. (Emgo) **SLASH-CUT (Universal) MUFFLER** 80-45700 MUFFLER - Slash Cut 1¹/₂" & 1³/₄" Chrome (16" O.A.) (Inc. Reducer & Mtg. Strap) Sold ea. (Emgo) **SHORTY (Universal) MUFFLER** 80-03310 MUFFLER - Reversable to fit both 1¹/₂" & 1³/₄" CHROME Repackable Glass-Pack Inc. Mtg. STRAP (Must Order Appropriate

CHROME EXTENSION

S0627 TURN OUT 1-3/8" BAFFLED (MCM) CHROME Sold ea. 80-75130P FISHTAIL 1-7/8" (1-13/16"ID) x 29" CHROME (Emgo) Sold ea.

Pipe Clamp Separately) Sold ea. (Emgo)

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EXHAUST CONVERSION & REPAIR SPIGOTS

Thread-In Conversion (We do it)

Convert In-Head Style Pipes to Over-the-Spigot Style. **TI.A.P. Cycle** Threads the Port Down to Existing Step to Help Prevent Stripped Threads then Install our Custom Ex-Long Steel Insert 70-9516/C. Allows Use of Early Over-the-Spigot Type Pipes for a Greater Ex-Pipe Selection.

Note: 500 Conversion uses stock steel spigots

MAP6400 Triumph 650/750II's - Convert In-head Pipes to 1-3/4" spigot MAP6401 Triumph 500II's - Convert In-head Pipes to 1-3/4" spigot 70-9516/C SPIGOT ONLY for TR6./T120/TR7/T140 In-Head Conversion (ea.)

Weld-In Conversion (You do it)

Convert In-head Style Pipes To Over-the-Spigot Type. Allows Use Of Early Over Spigot Type Pipes For Greater Selection And No Exhaust Leaks. Weld-in Only. Aluminum. Sold Ea.

Weld-In Repair (You do it)

MAP6330 REPAIR SPIGOT (Aluminum) - Tri 500 II's ea. MAP6300 REPAIR SPIGOT (Aluminum) - Tri 650 II's ea.

Helicoil Repair (We do it)

Utilizes A Special Stainless Steel Helicoil insert to Renew Damaged Exhasut Threads. Price Includes Machine Work. Customer Must Send Clean Head to **M.A.P. Cycle** for this work. MAP6450 TRIUMPH 650 thru '71 ALL ALLOY HEADS

(Requires NEW SPIGOT #70-9516) (Ea. Port) MAP6459 HELICOIL INSERT ONLY Sold Ea. (Note: Used Only as a Repair for a damaged MAP6450

TRIUMPH O.E SPIGOTS



O.E. Thread-In Spigots

70-9510	SPIGOT ONLY - TRI 500 ea
70-9516	SPIGOT ONLY - TRI 650 (1-3/4" Long) ea.
70-9516/C	SPIGOT ONLY - TRI 650/750 II's (1-3/4" Long for
	in-head conversion or locking nut) ea.
70-9516/LK	LOCK RING ONLY (ea.) Use with 70-9516/C to help prevent
	"Loose" exhaust spigots common to any T120/T140.
	Retains screw-in spigots from the added stresses of Racing.

NORTON EXHAUST THREAD REPAIR

36

III.A.P. Cycle bores out the original stripped threads, re-threads the port and installs their custom insert. This special 7075 Externally and Internally threaded alloy insert allows the use of the O.E. Exhaust clamp (Purchase New O.E. clamp to validate warranty). Should your new insert ever strip, simply unthread the old insert and screw-in a new one. Head threads will not ever strip, thus assuring a life long repair. Other than the first time, head removal or any other machine work should Not again be required.

Note: Heads with previously Welded-in Inserts Will Be Charged Extra if even repairable at all. Extra Charges Depend On Work Required To Correctly Repair Port - Inquire!)

MAP6402NORTON ATLAS/COMMANDO Exhasut Repair (Both Exhasut Port - Best Value!)MAP6410NORTON 750-850 Special Insert Only (Note: Used Only as a Repair for a damaged MAP6402)



III.*R***.P.** Cycle Enterprises, Jnc.

MIKUNI CARB/CONVERSION KITS

COMPARE: Then DEMAND T.A.P. - The MOST COMPLETE Carb Kits Available Please Note: our Kits are Constantly being REJETTED to Meet with Ever Changing Fuel Characteristics!



TRIUMPH "TR6"-"TR7" SINGLE CARB KITS* TR6-TR7 Kits Feature: Flow Bench Derived Polished TRP Intake Manifold, Manifold Adapter, Prejetted Carb, Chrome

Backed Air Filter, Gas Lines, Fittings/Clamps, Special 90°Throttle Cable, Extra Tuning Jets and Instructions.

MAP0318	Single 30mm Carb
MAP0319	Single 32mm Carb
MAP0320	Single 34mm Carb
*NOTE: Must	Remove or Modify Air Box on TRI/BSA '71-on O.I.F. Models

TRIUMPH "BONNEVILLE" TWIN CARB KITS* Bonneville Kits Feature: TRP Intake Manifolds, Manifold Adapters, Prejetted Carb, Chrome Backed Air Filters, Gas Lines, Fittings/Clamps, Complete Special **MAP** Throttle Cable(s), Extra Tuning Jets and Instructions.

MAP0334¹ to '64 26mm Carbs $w/1-1/4 \ge 20$ TPI Manifolds **MAP0335**¹ to '64 30mm Carbs w/ $1-1/4 \ge 20$ TPI Manifolds **MAP0339**¹ [°]64-[°]68¹/₂ 30mm Carbs w/1-3/8x20 TPI Manifolds **MAP0340**¹ [°]64-[°]68¹/₂ 32mm Carbs w/1-3/8x20 TPI Manifolds **MAP0345**¹ '64-'68¹/₂ 34mm Carbs w1-3/8x20 TPI Manifolds

MAP0359¹ '68¹/₂-'72¹/₂ 30mm Carbs w/Coarse 1-3/8 x 16 TPI Manifolds (2 Cables)

MAP0350¹ '68¹/₂-'72¹/₂ 32mm Carbs w/Coarse 1-3/8 x 16 TPI Manifolds (2 Cables) **MAP0355**¹ '68¹/₂-'72¹/₂ 34mm Carbs w/Coarse 1-3/8 x 16 TPI Manifolds (2 Cables)

NOTE: Add "/1" to the part numbers above if you require a 1 to 2 cable assembly rather than 2 individual cables

MAP0369/1 '76-78 (Splayed Head only) 30mm w/Bolt-On Manifolds. (1 to 2 Cable) MAP0360/1 '76-78 (Splayed Head only) 32mm w/Bolt-On Manifolds. (1 to 2 Cable) MAP0364/1 '76-78 (Splayed Head only) 34mm w/Bolt-On Manifolds. (1 to 2 Cable)

*NOTE: Must Remove or Modify Air Box on TRI/BSA '71-on O.I.F. Models

MAP0301 TRIUMPH TR5 500cc II's (Single 26mm Carb bolts to OE single carb manifold) 6-1/2" OA Complete Kit! MAP0405 BSA A50/65 Single 30mm Carb. (Use with stock BSA single carb manifold or many single's) 6¹/₂"OA
MAP0408 BSA A50/65 Twin 30mm Carb. Complete Kit including 1 to 2 Cable!
MAP0410 BSA A50/65 Twin 32mm Carb. Complete Kit including 1 to 2 Cable!

Interested? Let us know! (currently not in production) Troubled with costly MKII Twin "Parallel Port" Twin Carb T140 repairs and inconsistent operation? Convert to a Trouble-Free Single Mikuni Carb for Greater Throttle Response, Longevity and Overall Simplicity. MAP0325 Includes air filter. May be attached to stock box (DIY). Must drill & tap 4 holes. Installation Tools not included **MAP0325** T140E/T140 '79-on Parallel Port to Single 30mm Mikuni Conversion (Stk throttle req's MAP0554 cable)

TRIDENT/ROCKET III KIT

Sorry Photo Not Available

NORTON 750-850 COMMANDO KIT

0.04 æ

TRI-BSA III's 26mm Prejetted Carbs, Chrome Backed Air Filters, Gas Lines, Fittings/Clamps, 1 to 3 Throttle Cable, Extra Tuning Jets and Instructions. Note: Kits Do NOT use OE Linkage

MAP0370 DISCONTINUED - Please See MAP0372 MAP0372 T150/T160/Rocket III (inc. MAP0596 Air Filters)

COMMANDO SINGLE MIKUNI CONVERSION KIT Feature: Flow Bench Derived Special TTRP Intake Manifold,

Manifold Adapter, Prejetted Carb, Special Air Filter (36 & 38 mm) kits require some mods), Special Throttle Cable, Extra Tuning Jets, Gas Lines, Fittings/Clamps, & Instructions.

Note: MKIII w/stock throttle - Order MAP0554 special cable

MAP0380 Single 34mm Carb Conversion Kit (Pre MKIII) MAP0381 Single 34mm Carb Conversion Kit (MKIII Throttle) MAP0382 Single 36mm Carb Conversion Kit (Pre MKIII) MAP0383 Single 36mm Carb Conversion Kit (MKIII Throttle) **MAP0384** Single 38mm Carb Conversion Kit (Pre MKIII)

MAP0390 TWIN CARB COMMANDO w/32mm Carbs, Special Manifolds, Adapters, 1 to 2 Cable & Extra Jets MAP0395 TWIN CARB COMMANDO w/34mm Carbs, Special Manifolds, Adapters, 1 to 2 Cable & Extra Jets 7165 30th Avenue North

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QUICK CROSS REFERENCE & APPLICATION CHART

WMXBEE and DESCRIPTION VM23 VM23 VM32 VM32 VM33 VM33 VM34 VM35 VM34 VM35 VM40 VM40 UBBER CAP, frontile cable			\	➤ VM14/49 ▲			NS. Vent Line
WMNBER and DESCRIPTION VM22 VM32 VM32 VM32 VM33 VM34 VM34 VM34 VM3405 VM3407 VM3407	18	CW2=051	CW2=0516	CW2=0518		CW2=0416	38. SCREW, float bowl
WMN2BE And DESCRIPTION VM22 VM23 VM23 VM23 VM33 VM333 VM333 VM333 VM3333 VM33333 VM33333 VM33333 VM33333 VM33333 VM33333 VM33333 VM33333 VM33333 VM33333 <thvm33333< th=""> VM33333 V</thvm33333<>			¥	✓ VM28/79 ▲	A	VM15/164	37. PLATE, vent tube anchor
WMXBER and DESCRIPTION VM25 VM28 VM28 VM28 VM28 VM28 VM28 VM28 VM28 VM35 VM35 VM36 VM3606 VM3606 VM3606 VM3606 VM3606 VM3606 VM3606 VM3606 VM3607 VM3617			¥	– VM4/042- (Size) —	•		36. MAIN JET
WMXBER and DESCRIPTION VM26 VM28 VM38 VM3	VM28/228				VM36/17	VM28/228	35. RING, main jet
WINDER and DESCRIPTION VIN25 VIN26 VIN28 VIN32 VIN32 VIN33 VIN34 VIN35 VIN36 VIN36 <thvin36< th=""> VIN36 VIN36<</thvin36<>				VM34/39		VM26/26	34. NEEDLE VALVE & SEAT ASSY.
WMXBER and DESCRIPTION VM25 VM25 VM25 VM32 VM32 VM33 VM34 VM36 VM3				B34/52		VM26/25	33. WASHER, needle valve
NUMBER and DESCRIPTION VM28 VM28 VM32 VM32 VM33 VM34 VM35 VM36 VM3	VM24/224	2/171	VM22	VM24/224	VM28/142	VM24/224	32. IDLE ADJUSTING SCREW
NUMBER and DESCRIPTION VM28 VM30 VM32 VM32 VM34 VM36 VM38 VM39 VM38 VM3			¥	M20/11 ▲			31. SPRING, idle adjusting screw
NMMBER and DESCRIPTION VM25 VM32 VM32 VM32 VM34 VM35 VM36 VM			¥	► M12F/46A ◄			30. SPRING, air adjusting screw
EMN NUMBER and DESCRIPTION VM22 VM33 VM32 VM33 VM34 VM35 VM36 VM36 VM37 VM36 VM36 VM36 VM37 VM36 VM36 VM37 VM36 VM36 <t< td=""><td></td><td></td><td>¥</td><td>➤ VM20/214 ▲</td><td>A</td><td></td><td>29. AIR ADJUSTING SCREW</td></t<>			¥	➤ VM20/214 ▲	A		29. AIR ADJUSTING SCREW
EW NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM360 VM360 VM3606 VM3607 VM3606 VM3607 VM3617 V			V	- BS30/97- (Size)			28. AIR JET
EW NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM36 VM36 VM36 MUBBER CAP, Involte cable	VM28/133	VM38/08	VM36/14) or VM34/042 (Washer Type)	VM28/053 (O'Ring	VM28/133	27. PLUG, main jet
EW NUMBER and DESCRIPTION VM26 VM32 VM30 VM32 VM32 VM34 VM32 VM34 VM36 VM36 VM36 JUBBER CAP, throttle cable	B34/52		(O'Ring)	53 (Paper) VM28/253	4/0	VM28/134	26. WASHER, main jet plug
EW NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36	VM44/04	6/07	VM36	VM34/68			25. BOWL, float
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM36/05 <	6	VM24/23		VM34/61		VM28/164	24. FLOAT
EM NUMBER and DESCRIPTION VM28 VM30 VM32 VM34 VM36 VM38 VM36	5	VM36/15		VM34/73		VM28/166	23. ARM, float
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36			¥	► BV26/22 ▲	A		22. PIN, float arm hinge
EM NUMBER and DESCRIPTION VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 NUBER CAP, throttle cable M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/14 > M2/16 > M2/14 > M2/14 > M2/14 > M2/15 M2/14 > M2/14 > M2/15 M2/14 M2/14 M2/15 M2/14 M2/15 M2/14 M2/15 M2/14 M2/15 M2/16 M2/14 M2/15 M2/16 M2/16			¥	➤ VM22/210 ▲			21. PILOT JET
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM32 VM34 VM36 VM38 VM40 VM49 NUBER CAP, throttle cable	VM44/12	6/40	VM36	VM34/72			20. BAFFLE PLATE, float bowl
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM36 VM36 VM36 VM40 VM405 PU40 PU405	VM36/20	6/20	VM36	VM34/86		VM28/129	19. GASKET, float bowl
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM36 VM36 VM36 VM36 VM36 VM36 VM40							18. BODY, mixing chamber
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM32 VM34 VM36 VM38 VM40 VM40 1UBBER CAP, throttle cable W26/66 M21/14 >		3/144	VM18				17. PLUNGER, starter
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM34VM36VM36VM38VM40VM4UBBER CAP, throttle cable			¥	→ VM16/42 ▲	•		16. SPRING, starter plunger
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable		2/17	VM32			VM26/09	15. SPRING PLATE, starter level
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM40 VM400 VM	VM36/58	2/53	VM32	VM28/124		VM28/135 VM28/497	14: LEVER, starter
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable			VM20/456			VM26/116	13. FITTING, starter plunger
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM32VM34VM36VM38VM40VM4RUBBER CAP, throttle cable </td <td></td> <td></td> <td>V</td> <td>➤ VM28/455 ▲</td> <td></td> <td></td> <td>12. RUBBER CAP, starter plunger</td>			V	➤ VM28/455 ▲			12. RUBBER CAP, starter plunger
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM32VM34VM36VM38VM40VM4RUBBER CAP, throttle cable \sim <t< td=""><td>VM44/10(224)</td><td>VM34/17(166)</td><td></td><td>VM34/159- (Size)</td><td></td><td>VM28/86(182) VM30/38(169)</td><td>11. NEEDLE JET</td></t<>	VM44/10(224)	VM34/17(166)		VM34/159- (Size)		VM28/86(182) VM30/38(169)	11. NEEDLE JET
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM34VM36VM36VM38VM40VM4RUBBER CAP, throttle cable \checkmark \land \land \land \land \land \land \land \land <t< td=""><td>VM44/2</td><td>VM38/24</td><td>VM36/36</td><td>Left VM32/65 -Right</td><td>VM34/110 I</td><td>VM28/56</td><td>10. THROTTLE VALVE (SLIDE)</td></t<>	VM44/2	VM38/24	VM36/36	Left VM32/65 -Right	VM34/110 I	VM28/56	10. THROTTLE VALVE (SLIDE)
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	#7 Series			#6 Series		#5 Series	9. NEEDLE
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	BS32/126		¥	► VM20/369 ►	•		8. CLIP, needle positioning
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	VM44/13	5/09	VM3	VM34/31		VM28/132	7. PLATE, spring seat
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	VM44/13		4/55	VM3	VM34/50	VM28/257	6. SPRING, throttle valve
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	6	VM36/06		VM34/29			5. GASKET, mixing chamber top
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4 RUBBER CAP, throttle cable	VM44/05	6/09	VM36	VM34/27		VM26/56	TOP, mixing chamber
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM34VM36VM38VM40VM4RUBBER CAP, throttle cable \checkmark \checkmark \checkmark \lor <td< td=""><td></td><td></td><td>¥</td><td>► B30/247 ►</td><td>•</td><td></td><td>LOCKNUT, cable adjuster</td></td<>			¥	► B30/247 ►	•		LOCKNUT, cable adjuster
EM NUMBER and DESCRIPTIONVM26VM28VM30VM32VM34VM36VM38VM40VM40VM40RUBBER CAP, throttle cable \checkmark \land \checkmark \checkmark \checkmark \land \checkmark \land <			¥	→ M21/14 →	A		2. CABLE ADJUSTER
EM NUMBER and DESCRIPTION VM26 VM28 VM30 VM32 VM34 VM36 VM38 VM40 VM4			¥	► VM26/46 ◄			1. RUBBER CAP, throttle cable
-	VM40 VM4	VM38	VM36	VM32 VM34	VM30	VM26 VM28	ITEM NUMBER and DESCRIPTION

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M.A.P. Cycle Enterprises, Inc. **TUNING MIKUNI CARBURETORS**

This section is a guide for users of Mikuni carbs to learn the basic methods of tuning and adjusting to obtain top per-formance and fuel economy. The arrows in the drawings in this section show the direction in which air, fuel, and air-fuel mixture flows.

Information herewith obtained from Mikuni engineering data and manuals.

1. CARBURETOR FUNCTION

The function of a carburetor is to deliver a combustible air-fuel mixture to the engine. In order to do this, it must first break the fuel into tiny particles (in the form of vapor) and then mix the fuel with the proper ratio of air so it can burn without leaving excess fuel or air in the combustion chamber.

2. AIR-FUEL MIXTURE (Fig. 1)

The air-fuel ratio is generally expressed by its relative weight proportion. For example, the amount of air required for complete combustion of 1 gram of fuel under normal conditions is:



Fig. 1 Varying mixture ratios are required for the engine depending on operating conditions. Although the required mixture ratio varies more or less with the type of engine, its cooling efficiency, etc., the mixture ratio shown in Fig. 1 is required for ordinary engines. In the high speed range the ratio of about 12 to 13 grams of air for 1 gram of fuel produces the maximum output. However, in the case of an engine with low cooling efficiency, a somewhat richer mix-ture (10 to 12 grams of air against 1 gram of fuel) may be required to prevent seizure of the engine.

3. FUNCTION AND CONSTRUCTION

MIKUNI VM-TYPE CARBURETORS

Motorcycle and snowmobile engines are operated under a wide range of conditions, from idling with the throttle valve (Fig. 2 (1)) remaining almost closed, to the full load (the maximum output) with the throttle valve fully opened. To meet the requirements for proper mixture ratio under these varying conditions, a - low-speed fuel system (the pilot system) and a main fuel system (the main system) are provided in Mikuni VM-type carburetors.

A - The Pilot System Low-Speed Fuel System (Fig. 2 and Fig. 3)

40

Since the engine is operated with the throttle valve almost closed at idling or in the low speed range, the velocity of air flowing through the needle jet (2) the velocity of all nowing through the needle jet (2) is slow. Consequently, a vacuum strong enough to draw fuel from the needle jet in the main fuel system is not created. The fuel supply during this low speed operation is controlled by means of the pilot outlet (3) and the bypass (4) that are situated near the intake port. At idle, when the throttle valve is slightly preper fuel metared by the pilot is (5) is more than the pilot outlet (5) and the pilot outlet (3) and the bypass (4) that are situated near the intake port. At idle, when the throttle valve is slightly preper to the pilot outlet (5) is more than the pilot outlet (4) and the pilot outlet (3) and the bypass (4) that are situated near the intake port. At idle, when the throttle valve is slightly preper to the pilot outlet (5) is more than the pilot opened, fuel metered by the pilot jet (5) is mixed with air adjusted in a proper amount by the air screw (6) and is broken into fine particles (vapor)



The mixture is again mixed with air coming from the bypass and is drawn into the pilot outlet to mix with air flowing through the main bore (7). The fuel mixed with air at this stage then goes into the engine. When the throttle valve is opened slightly during low speed operation, the pilot outlet alone cannot supply the convict fuel and the chortage has the mode up operation, the pilot outlet alone cannot supply the required fuel and the shortage has to be made up with fuel injected from the bypass. The adjustment of the mixture ratio during this stage is made by the pilot jet and the air screw, in the case of a two-hole type fuel system (Fig. 3). While at low speed operation if full throttle is initiated a similar shortage of fuel exists and during this transition from low to medium or low to high the fuel again has to be injected from the bypass until enough vacuum can be created to draw fuel from the main fuel system.



B — Main Fuel System

On Mikuni VM-type carburetors, the pilot system and the main system are of independent construction.

The fuel flow in these two systems is shown in Fig. 4. Although there are two types of main systems, the *primary type* is the most widely used on 2-cycle engines, and on many 4-cycle engines. The *bleed type* system is normally used for rotary valve 2-cycle engines, and on some 4-cycle applications.



Primary Type (Fig. 5)

When the throttle valve is opened about 1/4 or more, the velocity of air flowing through the needle jet (10), and the vacuum, increases to the point where fuel can be sucked in. When the opening of throttle valve (1) is between a quarter and three quarters, fuel passes through the main jet (9) and, after being metered in the clearance between the needle jet and the needle (11) it is mixed with air that is metered by the air it is mixed with air that is metered by the air jet (12) and atomization of the fuel is accelerated.

The mixture is then injected, after mixing with air flowing through the main bore (7), to the engine in the optinum air-fuelratio. During this process of operation, the cutaway of the throttle valve serves to control the vacuum on the needle jet, thereby regulating the amount of fuel that is injected to the engine. When the throttle valve is opened more than three quarters for high speed operation, fuel is metered chiefly by the man jet (9).



C — Float System (Fig. 6)

The float system maintains a constant level of fuel in the bowl. Fuel flows through the needle valve (14) and enters the float chamber (15). As the fuel enters the float chamber, the float (16) moves upward to its pre-determined level because of buoyancy. When the fuel reaches the pre-determined level, the needle valve begins to close due to the lever action of the float arm rising, thus shutting off the supply of fuel.

The fuel level in the bowl controls the amount of fuel which is metered to create the optimum fuel mixture. For example, too high a level allows more fuel than necessary to leave the needle jet enriching the mixture. Too low a level results in a leaner mixture, as not enough fuel leaves the needle jet. Therefore, the predetermined fuel level should not be changed.



D - Starter System (Fig. 7)

In place of a choke a starter system is employed for Mikuni carburetors. In a starter system, fuel and air for starting the engine are metered by entirely independent jets. The fuel metered by the starter jet (17) is mixed with air and is broken into tiny particles in the emulsion tube (18). The mixture then flows into the plunger area (19), mixes again with air coming from the air intake port and is delivered to he engine in the optimum air-fuel ratio through the,fuel discharge passage (21). The starter is opened and closed by means of the starter plunger (22). Since the starter system is constructed to utilize the vacuum of the, inlet passage (20), it is important that the throttle valve is closed, when starting the engine.

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4. TUNING & CARBURETOR SELECTION

Tuning normally means a process of accurate and careful calibration to obtain maximum engine performance, and an economical improvement in fuel consumption. Improve-ment of power output of the engine depends on the amount of air drawn into the cylinder per unit time. A practice generally followed for engine tuning includes:

- To improve suction efficiency and exhaust effi-ciency by remodeling the intake and exhaust system
- To improve combustion efficiency by raising (2) the compression ratio
- (3) To increase the number of revolutions by adjusting the ignition timing

Generally speaking carburetor tuning is done in four stages: idle, low speed, mid-range, and high speed. On the Mikuni each stage is controlled by a separate component simpli-fying the tuning process. The function of the carburetor is to prepare and supply a mixture of fuel vapor and air to the engine cylinders in the proper ratio for efficient combustion. A — Carburetor Main Bore Size SELECTION One of the prerequisites for improving the output is to use a carburetor with as large a main bore as possible. However, a large main bore alone does not necessarily However, a large main bore alone does not necessarily improve the output. (Bigger is not always better.) As shown in Fig. 8, it is true that a large main bore improves shown in Fig. 6, it is true that a large main bore improves the power output in the high speed range. However in the slow speed range, the output rather drops. The main bore size selection should be determined by various factors such as: (1) whether the vehicle is intended for racing, (2) the design of the engine, (3) driving technique of the driver, (4) the driver's preference atc. In addition the maximum output pref-erence, etc. In addition, the maximum output the maxi-mum torgue and the minimum number of revolutions for stable engine operation must also be taken into account. Fig. 9 shows the values which have been obtained through our experience over the vears

Since the engine comes in a wide variety of types, the values given in Fig. 9 .should be taken only as reference values.

5. CARBURETOR CALIBRATION

Once the main bore size of the carburetor is determined, a test (normally referred to as setting or matching) to select the proper jet or setting part should be made. The size of the jet is determined by measuring the output in a bench or in a chassis dyno test. For racing, it is best to determine the proper size of the jet on the racing course, because the following points must be taken into account.

- The altitude (atmospheric pressure), temperature and humidity of the racing course
- The operation of the engine based on the topography of the racing course





Fig. 9

A — PILOT JET and the Low Speed Fuel System (Fig. 10 and Fig. 11)

In the low speed fuel system of the carburetor, the pilot outlet and the bypass have holes whose size is in relation to the main bore of the carburetor. Therefore, the adjustment and selection of the pilot jet and the air screw is important. Open the throttle a little at no-load operation and see if the engine revolutions increase smoothly. If the pilot jet is too small, increase in the engine speed will be slow and irreg-ular. Too large a pilot jet, on the other hand, would create too heavy exhaust smoke as well as a dull exhaust noise. If you cannot maintain the speed in the range of 12-25 MPH with the throttle held constant, the pilot jet is too small. is too small

Selection and setting of the air screw should be made in the following manner. First, warm up the engine adequately and set the idle screw so that the engine revolution at idling will be about 10-20% higher than the number of revolutions you are aiming at. Then, turn the air screw left and right (between 1/4 and 1/ 2 turn) and select the position where the engine revolution reaches the maximum. Adjust the idle screw to bring down the engine revolution to your desired speed for idling. After this adjustment of the idle screw is made, select once more the position where the engine revolution reaches the maximum, by turning the air screw left and right (between 1/4 and 1/2 alternately). At this point, attentionshould be paid to the following points

- If there is a certain range in the opening of the air screw where fast engine revolution can be obtained, (for instance, the number of revolutions does not change in the range of 1-1/2 to 2.0 turn), for better performance you should select approxi-mately 1-1/2 turns.
 To determine the "fully dosed" position of the air screw, turn the air screw slightly. Excessive tightening of the air screw would damage the
- tightening of the air screw would damage the seat. The position where the air screw comes to a stop should be considered the "fully closed" position. The maximum number of turns in the opening of the air screw must be limited to 3.0. of the air screw is opened over 3.0 turns, the spring will not work and the air screw can come off during opera-tion of the vehicle. Fig. 11 shows the fuel flow curve in relation to the opening of the air screw.



Fig. 10





B — The CUTAWAY Size of the THROTTLE VALVE (Fig. 12)

The size of the cutaway of the throttle valve affects the air-fuel mixture ratio when the degree of the throttle valve opening is between 1/8 and 1/2, especially in the range of 1/8 and 1/4 opening. As the cutaway increases in size, with the throttle valve opening kept unchanged, air inflow resist-ance is reduced and causes the amount of air intake to increase, resulting in a lean mixture. On the other hand, the smaller the size of the cutaway, the richer the air-fuel mixture will become. Change of the cutaway is made, when the low speed fuel system is out of balance with the main fuel system.

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Fig. 12 shows the fuel flow curve in relation to the size of the cutaway.

IAP.



C — Selection of NEEDLE JET and NEEDLE (Fig. 13 and Fig. 14)

A carburetor with a piston-type throttle valve is also called a variable venturi-type carburetor. In this type of carbure-tor, the needle jet and the needle serve to control a proper air-fuel mixture ratio during the so-called medium throttle valve opening (between 1/ 4 and 3/4 opening). The right combination of needle jet and needle will have a large bearing on the engine performance at partial load. The jet needle tapers off at one end and the clearance between the needle and the needle jet increases as the throttle valve opening gets wider. The air-fuel mixture ratio is controlled by the height of needle positioning clip that is inserted into one of the five slots provided in the head of the needle. The variation of fuel flow based on the height of the clip is shown in Fig. 13.



D — Selection of the Main Jet

First, do the following on a flat road.

- Select the largest main jet (the limit of a rich (1)mixture) which can give you the maximum revolu-tions per minute (the maximum speed). In this case, select the engine speed according to the dimensions of the test course.
- Compare the gain in speed that you can obtain by quick acceleration from a constant speed of 25-30 MPH to maximum desired speed, (2)by using dif-ferent sizes of main jets.
- Check the exhaust fumes and read the spark (3) plug (selection of the spark plug should be made based on the thermal value that would best suit power output of the engine).

Next, compare, on the racing course, the test results you obtained from the above. The points to be checked, among others, are:

 Smooth and steady operation of the engine at as high a speed as possible under varying operating conditions such as shifting of the gears, changes in road conditions, ascending nd descending slopes, etc.

Cycle Enterprises, Inc. Sustained operation at low speeds and at (2)

heavy engine load. Sustained operation at high speeds (without knocking or seizure)

piston seizure.

CAUTION Selection of too lean a main jet may cause severe engine overheating, and subsequent

6. MAINTENANCE

A carburetor consists of various precision-machined Parts such as jets, needles, valves, etc. Therefore, care should be exercised, when removing jets or disassembling the carbure-tor for cleaning.

- Proper tools should be used for disassembling and reassembling of jets. Handle each part carefully to avoid scratches, bending, etc.
 Wash the jets and the carburetor properly in schemt and blow them out with
- in solvent and blow them out with
- rompressed air. For carburetors whose main jet can be replaced from the outside, an "0" ring is used to prevent leakage of fuel. When you fit the "0" ring, apply a little lubricant or fuel to the "0" ring. (3)
- It is important to maintain the fuel level in the carburetor. Do not touch the float arm, when disassembling the carburetor. If the float arm is bent accidentally, adjust the straight portion of the float arm, so it is parallel with the chamber gasket surface.

7. TUNING THE CARBURETOR FOR RACING

The maximum output of the engine depends on:

The amount of air drawn into the cylinders $\binom{1}{2}$ Whether an air-fuel mixture is delivered to the cylinders in a proper ratio

Since use amount of air that is drawn into the carburetor varies with the temperature, the atmospheric pressure, humidity, etc., the mixture ratio is also changed. It is important, therefore, that the fuel flow be adjusted in accordance with the altitude of the racing course and meteorological conditions prevailing at a given time. Since the amount of air that is drawn into the carburetor



A — INCOMING AIR in Relation to Meteorological Conditions

The amount of air drawn into the cylinders is influenced by such factors as the altitude, the temperature, the humidity. etc. Suppose that the amount of air sucked into the cylinders at an elevation of zero is '(Men as 100 (the tem-perature and humidity in this case are considered constant). The amount of air in question decreases in proportion to a rise in elevation as shown in Fig. 1. Bodynction in the amount of air of air drawn into in Fig. 15. Reduction in the amount of air drawn into in Fig. 15. Reduction in the amount of air drawn into the cylinders changes the air-fuel mixture ratio, with the result that the power output drops markedly. Fig. 16 shows the relations between a rise in temperature and the amount of air drawn into the cylinders (in this case, the atmospheric pressure (elevation) and the humidity are considered unchanged and the amount of air going into the cylinders at 32°F (0°C) is taken as 100). In the case of the engine for racing where the maximum output is constantly called for, it is best to tune the engine by making a matching test of the to tune the engine by making a matching test of the carburetor in accordance with the temperature and other conditions on the racing course.

8. ENGINE TROUBLE SHOOTING

When the carburetor calibration is not correct or out of tune various irregularities in engine performance are noticeable. These irregularities can be traced to two basiccauses:

(1) When air-fuel mixture is too rich:

- The engine noise is dull and intermittent.
- Engine performance grows worse when the starter is opened. b)
- Engine performance grows worse when c)
- it gets hot. If removal of the air cleaner improves d) engine performance somewhat.
- The exhaust gases are heavy. The spark plug is fouled (black wet deposit around electrode).

(2) When air-fuel mixture is too lean:

- The engine overheats. a) b)
- The performance improves when the starter (choke) is opened.
- Acceleration is poor. Spark plug burns (blistered white insulator). The revolutions of the engine fluctuates d) e) and a noticeable lack of power.

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PROBLEM	POSSIBLE CAUSE	CORRECTION
HARD STARTING	Incorrect use of choke.	Correct use of choke.
	Incorrect air-fuel mixture adjustment.	Set mixture adjustment screw in accor- dance with owner's manual or shop manual instructions.
	Clogged fuel fitter.	Clean filter.
	Clogged low speed fuel jets.	Disassemble carburetor and chemically clean.
	Clogged vent in fuel tank cap.	Unclog vent or replace cap.
	Float stuck.	Remove float bowl, check float operation, and correct or replace.
	Float damaged or leaking.	Replace float.
	Incorrect float level.	Set float height in accordance with shop manual specifications.
	Intake air leak.	Check carburetor mounting flanges for air leaks.
	Ignition problem.	Repair, replace, or adjust as necessary.
	Low cylinder compression.	Repair, replace, or adjust as necessary.
POOR IDLE OR STALLING.	Idle speed adjustment(s) set too low.	Adjust idle rpm in accordance with specifications in owner's manual or shop manual.
	Idle speed adjustments are unequal (twin carburetor models and multi-carburetor models using individual throttle stop adjustments).	Equalize throttle stop settings.
	Clogged idle & low speed air bleed.	Disassemble carburetor and chemically clean.
	All causes listed under "HARD STARTING."	
IDLE MIXTURE ADJUSTMENT IS INEFFECTIVE.	Idle speed set too high.	Adjust idle speed in accordance with specifications in owner's manual or shop manual.
CARBURETOR DOES NOT RESPOND TO MOVEMENT OF THE	Clogged low speed air-bleeds.	Disassemble carburetor and chemically clean.
IDLE MIXIURE SCREW.	Damaged mixture adjustment needle.	Replace mixture adjustment needle.
	Mixture adjustment needle "0" ring is not sealing (models using "0" ring).	Replace " 0 " ring.
	Damaged mixture adjustment needle seat.	Replace carburetor.
	All carburetor problems listed under "HARD STARTING."	

PROBLEM	POSSIBLE CAUSE	CORRECTION
SLOW RETURN TO IDLE.	Idle speed set too high.	Adjust idle speed in accordance with Specifications in owner's manual or shop manual.
	Idle speed adjustments are unequal (twin carburetor models and multi-carburetor models using individual throttle stop adjustments).	Equalize throttle stop settings.
	Throttle valve sticking.	Clean and inspect throttle valve and return spring. Replace if necessary.
	Throttle linkage sticking.	Clean and inspect throttle linkage and return spring. Lubricate, repair, or replace as necessary.
	Throttle cable binding.	Correct routing or replace cable as necessary.
ENGINE SURGES WHEN CRUISING AT A CONSTANT	Incorrect air-fuel mixture adjustment.	Low Speed - Low speed jet size change. Intermediate - Jet needle height adjustment or primary main jet size change.
SPEED.	Vacuum piston sticking.	Clean and inspect vacuum piston and return spring. Replace if necessary.
	Incorrect use of choke.	Correct use of choke.
ENGINE DOES NOT	Clogged air cleaner.	Clean or replace.
OR MISSES ON ACCELERATION.	Incorrect air-fuel mixture adjustment.	Low Speed- Low speed jet size change. Intermediate - Jet needle height adjustment. High Speed - Main jet size change.
	Throttle valves not synchronized (models with two or more carburetors).	Adjust throttle valve synchronization.
	Clogged fuel filter.	Clean filter.
	Clogged fuel jets.	Disassemble carburetor and chemically clean.
	Clogged air bleeds.	Disassemble carburetor and chemically clean.
	Fuel jets loose.	Tighten fuel jets.
	Fuel jet "0" rings leaking (models using "0" rings).	Replace "0" rings.
	Float stuck.	Remove float bowl, check float operation, and correct or replace.
	Float damaged or <i>leaking</i> .	Replace float.
	Incorrect float level.	Set float height in accordance with shop manual specifications.
	Vacuum piston sticking.	Clean and inspect vacuum piston and return spring. Replace if necessary.
	Vacuum piston diaphragm ruptured.	Replace vacuum piston assembly.
	Ignition problem.	Repair, replace, or adjust as necessary.
	Low cylinder compression.	Repair, replace, or adjust as necessary.

NOTE: It may be necessary to change carburetor

Jet to correct the air-fuel mixture ratios under

- the following circumstances
- Exhaust system modifications
- Air cleaner alteration or removal
- Altitude changes
- Temperature and humidity Changes



E SMOOTH-BORE CARBURETORS

kr.	28MM	ORDER	VM28-418
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	36MM	ORDER	TM36-2
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ADVANCED DESIGN...

Air flows faster and smoother through the venturi area due to the flat slide configuration and the jet blocks that create a smooth-bore effect. The high velocity of the air flow means a stronger vacuum at the needle jet nozzle. The carb body is also designed to accept the Power Jet and Accelerator Pump Kits.

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The stronger vacuum at the needle jet nozzle means a more efficient, quicker fuel draw resulting in better atomization of fuel and instant throttle response. Whether you're cornering, at half throttle, or WOT, the VM38 Flat Valve responds to let you grab the dirt and grab the lead. Applications include motocross, desert, race track and ATV's.



Amal Track racing smoothbore Mk 2 Concentric carburetter

The Amal Track racing smoothbore Mk 2 Concentric carburetter has been purpose designed for the competition rider.

It incorporates jet block and throttle valve refinements, which combine to produce peak engine performance in respect of torque and brake horse power, with significant improvements in engine response. Precision manufactured in brass, the throttle valve has a polished hard chrome surface for smoother operation and greater wear resistance for harsh environments such as speedway, motocross and other competition applications.

This development is an extension of techniques pioneered by Amal on its range of title winning GP and TT carburetters.

The smoothness of the carburetter bore ensures an efficient supply of air as the pressure waves remain undisturbed. Achievement of the "ram" effect is also greatly enhanced.

Produced in 34 mm, 36 mm and 38 mm bore sizes, the carburetters are available for two-stroke and four-stroke engines and for use with alcohol versions, which comply with current speedway and grasstrack competition regulations.

- ★ Improves engine response
- ★ Increases brake horse power
- ★ More efficient "ram" effect
- ★ Alcohol version meets international regulations
- ★ Flexible mounting gives excellent insulation from vibration on modern high-speed high-performance engines
- ★ Easy access to mixing chamber for quick tuning and servicing
- ★ Cold-start mixture-enrichment lever mounted directly on carburetter body

The carburetters are available with right (R) or left (L) hand pilot adjustment.

two-stroke

2034/310T

2034/311T

2036/310T

2036/311T

2038/310T

2038/311T

four-stroke

2034/312T

2034/313T

2036/312T

2036/313T

2038/312T

2038/313T

Alcohol

2034/308T

2034/309T

2036/308T

.2036/309T

2038/308T

.2038/309T

Carburetter size

mm

34

36





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	2	Cable Adjuster Lockhut	622/	086
۱ ا	3	Float and slide chamber screws BLADE (4 62)	(1)201	4/120 4
	4	Cable Ferrules (Top Hat)	0/132 <u>A</u>	0/132 A
	5	Mixing Chamber Top for Adjuster & Ferrule	022/07/	720/07/
	0	Mixing Chamber Top (Sta)	622/004	#20/004 #20/121
	/	I hrottle Valve Spring	022/131	400/100
	8	Air Valve Spring	022/129	022/129
		Ihrottle Needle (paired with Needle Jet 622/0/9)	022/003	926/003
	9+ {	Ihrottle Needle (paired with Needle Jet 622/122)	022/124	022/124
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7	13	Air Intake Tube (2 3/4 Long)	. 376/143	928/069
·		Air Intake Tube (2 5/16" Long)		928/070
9	14	Pilot Jet # 15, # 20, #25, # 35	124/026	124/026
		Needle Jet (#105, #106, #107, #109	. 622/079	622/079
	15+	Needle Jet) # 106, # 107	. 622/122	622/122
	1	Needle Jet (for Alcohol only)	622/100	622/100
	16	Jet Holder	. 622/128	622/128
	17	Moin Jet (Specify Size) # 100, to #500	. 376/100	376/100
	18	Floot Needle	. 622/068	622/068
	19	Floot	. 622/069	622/069
	20	Float Chamber Washer	622/073	622/073
		Float Chamber Body	622/050	622/050
	21	Float Chamber Body (for Alcohol only)	622/051	622/051
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2		Filter (for Alcohol only)	376/093-2	376/093- 2
		Banjo Single Push On	375/068	375/ 068
		Banjo Single Push On (Nylon or Diecast)	376/097	376/097
		Banjo Single Screwed ¼" BSP	376/090	376/090
8	23	Banjo Single Push On	376/130	376/130
-		Banjo Double 60° (Nylon or Diecast) Use 376/410	376/098	376/098
7		Banjo Double 90° Push On	376/135	376/135
		Banjo Double 150° Push On	376/139	376/139
6		Banio Double 55° Push On	376/410	376/410
1		Banio Double Screwed ¼" BSP	376/108	376/108
1	Not II	Banjo Washer (for Diecast Banjo (Top)	14/	175
	24	Banio Bolt	622/078	622/078
	Not II	. Bonio Bolt Washer (for Diecast Banjo (Botton) 13/	163
	25	Floot Spindle	622/071	622/071
25	26	Throttle Stop Adjusting Screw		/077
	27	Pilot Air Adjusting Screw	622	/076
	28	O' Rings	622/082	622/082
	20	Needle Clip		622/067
	â	Mixing Chamber Top for Two Ferrules	622/098	928/098
	21	Plug for Mixing Chamber Top	4/137	4/137
	20	O Ring for Flange Sealing	622/101	622/101
	22	Air Valve Guide	622/134	928/103
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	14011			

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5	Needle disc	2928/071	2036/071
6	Needle clip	2622/067	2622/067
7	Throttle needle, 2 stroke	2928/063	2036/063
7	Throttle needle, 4 stroke 2A1	2622/124	2622/124
7	Throttle needle (alcohol)	2928/125	2036/077
8	Throttle slide	2928/060/2	2036/060/2
å	Throttle slide	2928/060/2.5	2036/060/2.5
8	Throttle slide	2928/060/3.5	2036/060/3.5
8	Throttle slide	2928/060/4	2036/060/4
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10	Plunger assembly (lever operated)	2622/079	2622/079
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14	Screws	2622/073	2622/073
15	Needle jet, 4 stroke 105	2928/122/105	622/122/105
15	Needle jet, 4 stroke	2928/122/106	622/122/106
15	Needle jet, 4 stroke 107	2928/122/107	622/122/107
15	Needle jet, 4 stroke 108	2928/122/108	622/122/108
15	Needle jet 2 stroke 106	2928/079/105	2928/079/105
15	Needle jet 2 stroke 107	2928/079/107	2928/079/107
15	Needle jet 2 stroke 108	2928/079/108	2928/079/108
16	Jet holder	622/128	622/128
17	Main jet	USE CONCENTRIC	REFERENCE
18	Float spindle	2622/069	2622/069
20	Float	622/069	622/069
21	Filter	376/093	376/093
21	Filter (alcohol)	376/0938	376/093B
22	Banjo, single, push-on (1/4'')	376/097	376/097
22	Banjo, single, threaded(1/4" BSP)	376/090	376/090
22	Banjo, single, push-on (5/16'')	376/130	376/130
22	Banjo, double 50 push-on (5/16)	376/130	3/6/139
22	Banjo, double, 33 pash on $(3/10^{-7})$	376/410	370/410
N/S	Banjo washer (alcohol)	14/175	14/175
23	Banjo bolt	622/078	622/078
24	Air adjusting screw	2622/128	2622/128
25	Throttle adjusting screw	2622/129	2622/129
26	Pilot jet 15	124/026/15	124/026/15
26	Pilot jet 20	124/026/20	124/026/20
20	Pilot jet 30	124/020/25	124/026/25
26	Pilot jet 35	124/026/35	124/026/30
27	Float bowl washer	2622/070	2622/070
28	Cold jet start Use Pilot Jet R	eferences Use Pilot	Jet References
29	Float bowl - 0.10in	2622/055	2622/055
29	Float bowl - 0.062in	2622/056	2622/056
29	Float bowl = 0.125in	2622/057	2622/057
30	Screw	2022/056	2022/058
31	Drain plug washer	2622/066	2622/066
32	Drain plug	2622/065	2622/065
33	Velocity stack	2928/126	2036/126
34 25	Screws	2036/073	2036/073
36	Aujuster Alternative	4/035	4/035
37	Screw cable operated	5/0// 2622/091	3/U// 2622/091
38	Spring cold start	2622/084	2622/084
39	Plunger cap	2622/092	2622/092
4C	Plunger assembly	2622/094	2622/094
41	Air Jet/ MKII (ali) Vent Tube/ MKII(ali)	2622/235	2622/235
43	Clip/ Vent Tube/ MKII (all)	2622/145	2622/145 2622/134
44	Clamp/ Intake Rubber/ MKII (all)	2928/146	2928/146
40	Sieever Mounting/ MKII (30-34mm)	2928/123	2036/123

7165 30th Avenue North Website: www.mapcycle.com

St. Petersburg, Florida 33710 Email: sales@mapcycle.com



T.A.P. CARB MANIFOLDS



EXCLUSIVE T.A.P. CONVERSION CARB MANIFOLDS:

All $\overline{\mathbf{m}}.\overline{\mathbf{\pi}}.\mathbf{P}$. Manifolds were Designed & Tested on a Superflow Test Bench for Best Flow Possible. Their Perfect Fit and Ease of Installation Make these $\overline{\mathbf{m}}.\overline{\mathbf{\pi}}.\mathbf{P}$. Designed and Manufactured MANIFOLDs Simply the "BEST". Use with Adapters Below to mount most Spigot Carbs.

Proudly MADE IN THE U.S.A. Since 1973

Note: Threaded spigots are measured on thread OD for ID purposes only - Manifolds are NOT Individually Ported.



MAP0524

TRIUMPH

MAP0500	TR6/TR7 MANIFOLD - Nicely Polished, Similar to Stock Looks, Used with 30-34mm Amal MK1.5, MKII
	or Mikuni Spigot Type Carbs. (Inc. Gaskets & 5/16 Stainless Mounting Screws (reqs. MAP0560 Adapter)
MAP0505	T120 Screw-In MANIFOLD - to '64 Fine (1.245" OD x 20 TPI) (reqs. MAP0570 Hose Kit)
MAP0510	T120 Screw-In MANIFOLD - '64 - '68 ¹ / ₂ Fine (1.36" OD x 20 TPI) (regs. MAP0570 Hose Kit)
MAP0515	T120 Screw-In MANIFOLD - '68 ¹ / ₂ -'71 ¹ / ₂ Coarse (1.36" OD x 16 TPI (reqs. MAP0570 Hose Kit)
MAP0520	Bolt-On Cast 2-1/8" OA Aluminum MANIFOLD (71½-on) (reqs. MAP0570 Hose Kit)
MAP0521	Bolt-On BILLET 3/4" OA MANIFOLD (71 ¹ / ₂ -on) Inc SS Button Allens (reqs. MAP0570 Hose Kit)
MAP0522	Bolt-On BILLET 1" OA MANIFOLD ('71½-on) Inc SS Button Allens (reqs. MAP0570 Hose Kit)
MAP0524	NEW Bolt-On BILLET "Cross-Over" Billet MANIFOLD. Features a Built-in Stainless X-over Pipe to
	combine low speed pulses for a smoother idle and allows attaching a vacuum guage for perfect carb
	synchronazation. Includes SS Button Allens, Gaskets & X-over hose (711/2-on)(reqs. MAP0570 Hose Kit)
NORTON	
MAP0530	Commando Single Carb Conversion MANIFOLD for 30-34mm CARB (reg. MAP0560 Adapter.)
MAP0535	Commando Single Carb Conversion MANIFOLD for 36-38mm CARB (req. MAP0560 Adapter)

MAP0530	Commando Single Carb Conversion MANIFOLD for 30-34mm CARB (req. MAP0560 Adapter.)
MAP0535	Commando Single Carb Conversion MANIFOLD for 36-38mm CARB (req. MAP0560 Adapter)
MAP0539	Commando Single Carb Conversion MANIFOLD (2" Centers) to Mount an AMAL MKI Concentric Carb
MAP0540	Commando Twin Carb Conversion MANIFOLD for 30-34mm CARB (reqs. 2 MAP0560 Adapters)
MAP0545	Commando Twin Carb Conversion MANIFOLD for 36-38mm CARB (reqs. 2 MAP0560 Adapters)
MAP0537	ATLAS Single Carb Conversion MANIFOLD for 30-34mm CARB (reqs. MAP0560 Adapter.)

BSA

MAP0522 A50/A65 - 30-34mm Spigot Carbs 1" Tall Billet (Allows for use with Allen mtg screws) (regs. Hose MAP0573, Clamp MAP0578 & MAP0580 Screws)

ADAPTERS AND ACCESSORIES



CONTRIUMPH MANIFOLDS/PARTS									
MODEL:	MANIFOLD	HeadStud Short	HeadStud Long	HeadStud WASHER	HeadStud NUT	X-Over STUB	Carb STUD	CarbStud WASHER	CarbStud NUT
'59-67 (T100C) '68-69 (T100C) '70-74 (T100C) *Note: TR5/[R57] use 71-3530 (28mm)	70-4689 70-7578* 70-7578*	70-3796 14-7019 ¹ 14-6115 ⁴	70-3797 14-7024 ¹ 14-7024 ¹	60-4248 21-0648 60-4247 ⁵	37-0103	 	70-3880 21-0582 21-0582	60-4247 70-2287 ² 60-4247	21-0001/51 14-0702 ³ 14-1302
Noc. 110/1101 use /1 5550 (201111)	MANIFOLD LH	MANIFOLD RH	Manifold STUD						
T100 '67-69 (2-Carb) T100 '69-on (2-Carb)	70-7136 70-7136	70-7137 70-7137	21-0582 14-7019	70-2287	14-0702	70-6916 70-6916	21-0582 21-0587	60-4248 60-4248	14-0702 14-0702
	MANIFOLD	HEAD STUD	HeadStud NUT	HeadStud WASHER	X-Over STUB	CARB STUD	CarbStud O-RING	CarbStud WASHER	CarbStud NUT
TRI TR6 thru '68½ TRI TR6 '68½ thru '69 TRI TR6/7 '70-on	70-5512 70-5512 70-9973	70-2973 21-1876 21-1876	37-0103 21-1877 21-1877	60-4248 60-4248 60-4248	 	70-2962 70-2962 21-1996	 70-9554	60-4247 60-4247 70-9555 ⁷	21-0001/51 ⁶ 70-1310 14-0301
	LH MANIFOLD	RH MANIFOLD	Manifold NUT						
TRI T120 '64-68½ TRI T120 '69-72 (4-spd) ⁷ TRI T140 '73-78½	70-9550 71-3339	70-9551 71-3338	70-4608 21-1932 	 	70-4791 70-6916 71-7103	82-2603 71-2813	 70-9554 70-9554	60-4247 70-9555 ⁸ 70-9555 ⁸	57-0224 14-1301 14-1301

¹NOTE: These are ALLEN Screws - NOT Studs ²NOTE: '68 Used 60-4247 WASHER ³NOTE: Recommend 14-1302 Nyloc NUT ⁴NOTE: BOLT - NOT stud ⁵NOTE: Also Uses 21-0648 WASHER ⁶NOTE: '68 Used 70-1310 (Recommended for ALL) ⁶NOTE: NOT for ATE LOTE (100 FD AMER)

NOTE: NOT for LATE LoBoy (72½) T120 FRAMES w/Angled Bolt-on Manifolds (for LoBoy see 71-2811 (LH), 71-2812 (RH) MANIFOLDs & 71-2813 Carb Mtg. STUD)
 NOTE: Not a washer, but the Cup that holds 71-9554 o-ring in place

These AMAL Velocity Stacks Feature a Tightly Meshed Screen to Prevent Large Debris from Entering Your Engine While Still Providing the Tuning Aspects of a Velocity Stack for Added Performance. Fully Polished Aluminum Finish See "Amal" Section for Tuned Racing Stacks.

III.R.P. Air Filters are Made from the FINEST "Dupont" Air-Filter Material. NO Foam or Cheap Surgical Gauze is ever Used. These Air Filters do NOT Require Air Filter Oil to Function Properly. Oiling Eases Cleaning While Increasing Life Span.

MAP9997	389/689 SERIES (POLISHED)
MAP9998	600 SERIES (POLISHED)
MAP9999	900 SERIES (POLISHED)

SCREENED VELOCITY STACKS



SPECIAL T.R.P. AIR FILTERS



CHROME E	Backed fo	or Custom Appeal except as Noted.
MAP0590	2-1/4"	Inlet Especially Designed for Tight Clearance Only 1" Thick with Offset Mount to Avoid Most
MAP0501	2_1/4"	Liet x 2,35 x 4" Long (Tapered) Use on All Bonnie Engines - Especially Designed For
WIM 0091	2-1/7	Oil-in-Frame (without air box). (Mikuni or MK II Carbs)
MAP0592A	2-1/4"	Inlet x 4.5 x 2" Thick has Central Mount, Perfect for most Mikuni or MK II. (Used in MAP0380
	~	Carb Kits) Not Chrome Backed.
MAP0592C	2-1/4"	Inlet x 3.25 x 4" Long. Not Chrome Backed.
MAP0592D	2-1/4"	Inlet x 4.5 x 5" Long. Flattrack or Road Racer, etc. Not Chrome Backed.
MAP0593A	2-7/16"	Inlet x 5 x 3" Thick. Offset Mount
MAP0593B	2-7/16"	Inlet x 3.5 x 4" Long. Good for Twin Large Mikuni or MK II's.
MAP0593C	2-7/16"	Inlet x 4.5 x 2" Thick. Finally a filter to Fit Norton 36-38mm Single Carb Kits. Not Chrome
MAP0593D	2-1/2"	Inlet x 4.5 x 5" Long. Great for flatracker or Road Racer, etc. Not Chrome
	71	65 30th Avenue North St. Petersburg, Florida 33710 51

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Jason Lee's Bullet Falcon Features: **T.A.P.** Billet Cylinder Kit **1st Place** International Half Moon Bay Concours


RECTIFIER/REGULATOR



DI-RECT I ("Diode-Rectifier" Replacement) - Regulates and Rectifies A.C. Current to Maintain Battery/Capacitor Voltage. Perfect Replacement for the Expensive Stock Rectifier & Zener at Nearly HALF the Cost. Only 2 X 2 X ¹/₂". Complete with a simple Wiring Diagram. (2 YEAR MFG. WARRANTY) Made in U.S.A.

NOTICE: MAP4100, Direct I, When Combined With MAP4109, Capacitor, Is The Absolute Best Combination for Batteryless Operation. As a 2piece Unit, a Blown (Exploded) Capacitor May Be Changed WITHOUT Affecting the Rest of the Circuit. This is Not Only Less Expensive than

Replacing the Entire 1-Piece Unit but When the Overloaded Internal Capacitor BLOWS it Will Usually Blow the Circuit Board, Leaving the Rider Without Electrics (Stranded). A Direct I With its Replaceable Capacitor is thus Much Prefered. Note: For Safty It is Best to Use a Battery for Brightest Lights Especially at Idle so as to be SEEN!

MAP4100 DI-RECT I (12 Volt) MADE in U.S.A.

REGULATES & RECTIFIES CURRENT ON ANY 1-PHASE PERMANENT MAGNET ALTERNATOR UP TO 215 WATTS

MAP4102 DI-RECT III - A One Piece Finned Unit Designed to Rectify & Regulate *3-Phase* 12 Volt Power. Replaces Lucas #83539 Rectifier and #49589 Diode. Dependable, Comes with a 2-year Warranty at Less Than One-Half Cost of Original Lucas. 3" X 4" X 1" with Instructions. Neg. Ground Only. Finned!

MAP4103Regulator/Rectifier in OE Style Zener Finned Pod - 12v - "Sparks" BrandMAP4104Rectifier Only (1x1x1/2") Solid State

A.C. REGULATOR



MAP4105 Regulates A.C. Current To 12 Volts. Ultra Small Only 1 X 1 X ¹/₂", Very Inconspicuous. Makes Wiring a Snap. Includes Diagram. 2 year warranty Note: Ac regulator is made as a magneto ignition. Will not charge a battery



GENERATOR REGULATOR



37mm X 57mm X 23mm Small Enough to fit in OE Regulator box

BATTERY ELIMINATOR

54483156



Solid State "Power Box" For E3 2-Brush Lucas Generator. Internal Electronics Switch at 500times/Sec for No Battery "*Flickerless*" (Half Bright at Idle, Charges at 1200rpm (6v) or 1600-1800rpm (12v) with Full Power (12v at 120watts) at 2500rpm) Operation. Can be Fit Inside O.E. Regulator Cover for an Original Look.

MAP4108 6-Volt REGULATOR (+ Ground) Podtronics (Tai)
MAP4108/A 12-Volt REGULATOR (+ Ground) Podtronics (Tai)
MAP4108/B 6v to 12v CONVERSION/REGULATOR (+ Gr.) (Tai)
See "Lucas" in Price List for Armatures & Fields for 12V conversions

MAP4117	6-Volt REGULATOR (Negative Ground) UK
MAP4118	12-Volt REGULATOR/CONVERSION + Ground UK
MAP4119	12-Volt REGULATOR/CONVERSION - Ground UK

MAP4109 Allows Engine Operation Without Battery or as a Safety Measure Against Battery Failure. Lights Will Dim at Idle Without Battery. Best When Used With MAP4100 Above. Replaces Lucas #54170009 Supplied w/54483156 Mounting Spring.

NEW Vatt STATORS/ROTORS RM25/HOC ALTERNATOR KIT - 220 Watt Hi-Output Rotor, Stator & 3-Phase Regulator* RM25/P ALTERNATOR (Rotor/Stator) *All Require a Battery: Electronic Ignitions need 5K ohm plug caps (not included) STATOR - 120W - 3 Wire Single Phase 47204 47205/P STATOR - 120W - 2 Wire Single Phase (Excellent Quality/Price-Tai) STATOR - 180W - 3 Wire Single Phase Hi-Output 47194 STATOR - 180W - 2 Wire Single Phase Hi-Output (Excellent Quality/Price-Tai) 47239/P STATOR - 130W - 3 Wire 3 Phase STATOR - 180W - 3 Wire 3 Phase 47252 47244 54202299/P ROTOR - Rare Earth Magnet Adds Output (for Most "RM" Alternators) "SPARKS" Brand **RECTIFIERS/ZENER DIODES/SOLID STATE** RECTIFIER - SINGLE PHASE (+) GROUND (Rec. MAP4100) 49072 83539 RECTIFIER - 3-PHASE WITH NEGATIVE (-) GROUND (Rec. MAP4102 on Page 60) RECTIFIER - 3-PHASE WITH POSITIVE (+) GROUND 83536 ZENER DIODE SINGLE PHASE (+) GROUND (LUCAS) (Rec. MAP4100 on Page 60) ZENER DIODE THREE PHASE (+) GROUND (LUCAS) 49345 47266 MAP4100 REGULATOR/RECTIFIER (Replaces Rectifier & Zener (2 YR WARR) See Page 60 MAP4103 REGULATOR/RECTIFIER Inside Stock Type Heat Sink 1-Phase "SPARKS" 97-2237 MAP4109 **BATTERY ELIMINATOR (Eliminates Battery)** See Page 60 7 MAP4103 68-9428 HEAT SINK - BSA Thru '70 HEAT SINK (Finned) TRIUMPH '68-on (Pre OIF) 97-2237 NEW! 97-2275 MAP4103 HEAT SINK w/Built-In 1-Phase Regulator/Rectifier "SPARKS" HEAT SINK BRACKET TRIUMPH '68-on 97-2365 97-2275 HEAT SINK PLASTIC PLUG TRIUMPH '68-on 97-236 SWITCHES BRAKE TRI-BSA OIL-in-FRAME (OIF) & C (Perfect Replacement) 34815/E EARLY TRIUMPH (Pre OIF) 54033234 EARLY BSA (NOT OIF) 4815/E 34448 34619 HYDRAULIC 210 MAP4200 UNIVERSAL BRAKE SWITCH w/SPRING MAP4200 HANDLEBAR MAP4220 HI-OFF-LO & HORN/KILL (3-WAY DIMMER) MAP4222 HI-OFF-LO & HORN/KILL ("Miller" Type) - MCE MAP4225 HI-OFF-LO & HORN/KILL with LEADS 7/8" HI-LO & HORN SCREW-ON as ORIGINAL (NO LEADS) 31563/NW HI-LO & HORN SCREW-ON (ECONO) with LEADS 31563/P MAP4205 HORN OR KILL BUTTON MAP4210 54033667 RH BSA-TRI '71-72 ¥, 54033751 RH BSA-TRI '73-76 II's LH BSA-TRI '71-75 II's 54033666 54340882 BASE (Lever Half) '71-76 RH/LH NEW Hems! RH T160(All)-T140V '76-78 "Sparks" RH T140E (As OE "Sparks" Brand) 30723/P 35318/P RH T140ES & Norton MKIII (As OÉ "Sparks" Brand) 35317/P LH T140V & T160 (As OE "Sparks" Brand) LH T140E & Norton MKIII (As OE "Sparks" Brand) 30707/P 33708/P LH Horn. Turn/ Hi-Lo '79 Tri (As OE "Sparks" Brand) 33709/P **IGNITION** ON-OFF (2-Position - 2, 3 or 4 Terminals) ON-OFF-LIGHTS-PARK (4-Position - 7 Terminals) NUT (for "LUCAS" Type Ignition Switches) 306081 35351¹ $[\mathbf{O}]$ 54130041 TUMBLER & KEYS for 30608/35351 (Also "/P" or "/E") 54315070 WOW!! NICEITEM 97-2262 97-2262 **BOOT** Ignition Switch Back BOOT Ignition Key slot '79-on 60-4335 Universal 3-WAY Ignition SWITCH "ON-OFF-LIGHTS" (with 2-Keys) MAP4210 Custom Universal Switch PLATE. Tear Drop. Nicely Chrome Plated MAP4215 **NOTE**: Includes Mounting NUT but Requires TUMBLER & KEYS (add "/P" for "Pattern" Aftermarket) **HEADLAMPS/PARTS (CUSTOM)** BOTTOM MOUNT "Bates" HEADLIGHT w/HI-BEAM INDICATOR (12V) S1504 BOTTOM MOUNT "Bates" HEADLIGHT w/HI-BEAM INDICATOR (6V) S1503 SIDE MOUNT "Bates" HEADLIGHT w/HI-BEAM INDICATOR (12V) SIDE MOUNT "Bates" HEADLIGHT w/HI-BEAM INDICATOR (6V) S1506 S1505 5³/₄" 6 VOLT SEALED BEAM 5³/₄" 12 VOLT SEALED HALOGEN (QUARTZ) *50-35W* BEAM S1507 S1511 S1503-S1506 5³/4" LENSE/REFLECTOR w/QUARTZ REPLACEABLE BULB (No Pilot) (Chrome) H402212 7165 30th Avenue North St. Petersburg, Florida 33710 55 Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

LIGHTS	S/PARTS (STOCK)
HEADLAMF 99-7098 99-7039 99-9969 99-9968 99-1009	 PS/PARTS (O.E.) 7" SHELL ONLY - Plain Top No Holes (Lucas) 7" SHELL ONLY - 3 Warning & Switch Hole (Lucas) 7" SHELL ONLY - 2 Warning, Switch & Ammeter Hole (Lucas) 7" SHELL ONLY - Ammeter Hole Only (Lucas) 7" SHELL ONLY "Flat Back" Type (TRI-BSA '71-72)
54525272	5" REFLECTOR & LENSE w/Pilot (Lucas)
516798	7" REFLECTOR & LENSE w/Pilot to '78 (for #446 Bulb) Lucas
54522680	7" REFLECTOR & LENSE w/Pilot '78-on (for #410 Bulb) Lucas
MAP9240	7" REFLECTOR KIT (Inc. #410 45/40 Bulb & Adapter) Lucas
H702212	7" REFLECTOR w/H4 Quartz Bulb (No Pilot) Lucas
534343	5" RIM (Lucas)
553248	7" RIM Excellant Chrome (Lucas) Add "/E" for Econo
54520540/H	P BULB RETAINER (Twist on bulbs) w/Wires
504665	RETAINING CLIPS (Reflector to Rim) 5-pk
144921	SCREW (RIM SECURING CLIP - Lucas Heavy Chrome) ea.
534296	CLIP RIM SECURING (Use with 144921 Screw (OE lucas))
31788	TOGGLE SWITCH (Most Early TRI-BSA 3-Position) Lucas
34660	TOGGLE SWITCH (COMMANDO) Lucas
34419	TOGGLE SWITCH (TRI 750 II's) Lucas
31356/P	ROTARY SWITCH w/Arrow (99-1211/31276/31350)
54363453 54363454 54363455 54361250	AMBER LIGHT RED LIGHT GREEN LIGHT BLUE LIGHT(Also: 99-1207 w/Blade Connections - Lense Not OE) (Also: 99-1208 w/Blade Connections - Lense Not OE) (Also: 99-1209 w/Blade Connections - Lense Not OE)Image: Connection of the second
36047	AMMETER, 30-0-30 Black Face (Lucas)
99-0567	AMMETER, 12-0-12 (Lucas)
99-0566	AMMETER, 8-0-8 (Lucas)
99-9959	SEAL, Ammeter to Shell
862217	GROMMET, (Headlamp Shell/Oil Frame Harness) uk
83-4931	RUBBER, Anti Roll Gas Tank, Oil-in Frame (OIF) uk
54524048	BOOT, Flat-Back Headlight Shell (uk)
TAILLIGH	ITS (CUSTOM)
\$5050	CLASSIC TAILLIGHT ASSEMBLY Chrome (Inc Mtg Pad & Screws)
\$5050/H	BRACKET ONLY
\$5032	CATSEYE TAILLIGHT, Extra Bright - Oval Shape (Chrome)
TAILLIGH	ITS (STOCK)
53454/E	COMPLETE '49-66 (Exact duplicate but no word "Lucas")
54576001	LENSE ONLY '49-66 (Lucas)
54576001/H	E LENSE ONLY '49-66 (Exact duplicate but no word "Lucas")
575219	NUT, Lense Mounting (Stock Lucas Backplate Only)
53973	COMPLETE '67-72 (Lucas) Also '66 TR6R/T120R/T100R
53973/E	COMPLETE '67-72 (Exact duplicate but no word "Lucas")
54577109	LENSE ONLY '67-72 (Lucas)
54577109/H	E LENSE ONLY '67-72 (Exact duplicate but no word "Lucas")
144921	SCREW, Lense Mounting(Stock Lucas Backplate Only)
56513	COMPLETE '73-on (Lucas)
56513/E	COMPLETE '73-on (Exact duplicate but no word "Lucas")
54584930	LENSE ONLY '73-on (Lucas)
54584930/H	E LENSE ONLY '73-on (Exact duplicate but no word "Lucas")
99-9947	SCREW, Lense Mounting ('73-on)
TURN SIG	SNALS/PARTS 56513 54584930
54057567 54057567/H 54057553 54057553/H	 3½" STEM (Lucas) 3½" STEM (Exact duplicate but no word "Lucas") 5" STEM (Lucas) 5" STEM (Exact duplicate but no word "Lucas")
60600621	LENSE w/GASKETS (Lucas)
60600621/E	LENSE w/GASKETS (Exact duplicate but no word "Lucas")
60600621/E	L LENSE ONLY (Exact duplicate but no word "Lucas")
60600621/C	GASKET ONLY, Lense
60600621/S	SCREW ONLY, Lense
35048	FLASHER
	7165 30th Avanua North St Batarahura Elarida 22710

	T.R.P. Cycle Er	terpris	ses. Inc. ———
	BUI	LBS -	-
	HEADLIGHT - TAILL	AMP - TU	URN SIGNAL
	H1 QUARTZ 12 VOLT 55 WATT R448 12 VOLT 100 WATT R481		TAILLAMP BULB 6 VOLT 21/5 WATT R384 12 VOLT 21/5 WATT R380 12 VOLT 40/3 WATT R1157/HO 12 VOLT 50/15 WATT R1157/Q
E Contraction of the second se	H2 QUARTZ 12 VOLT 55 WATT R479 12 VOLT 100 WATT R480		(2 Times Brighter than R1157) TURN SIGNAL 12 VOLT 21 WATT R382 12 VOLT 50 WATT R382/Q
	H3 QUARTZ6 VOLT 55 WATTR45512 VOLT 55 WATTR45312 VOLT 100WATTR48312 VOLT 130 WATTR492		SCREW BASE 6 VOLT 3 WATT R990 12 VOLT 2.2 WATT R987
	H4 - P43t BASE (QUARTZ) 6 VOLT 60/55 WATT R473 12 VOLT 60/55 WATT R472 12 VOLT 100/55 WATT R477 (Heavy Duty Motorcycle) 12 VOLT 100/80 WATT R484		CAPLESS BASE12 VOLT 2.2-3 WATTR50412 VOLT 5 WATTR50112 VOLT 6 W. (Krypton)R501/SP(2 Times Brighter than R501)
	12 VOLT 60/55WATT R472/Hd H4 - P45t BASE(QUARTZ) 12 VOLT 60/55 WATT R12		PIN BASE 12 VOLT 4 WATT R233 PIN BASE
	TYPE P45t BASE (BRITISH 1978-on STOCK) 12 VOLT 45/40 WATT R410 12 VOLT 45/40 WATT R411		6 VOLT 6 WATT R951 12 VOLT 2.2 WATT R643 12 VOLT 5 WATT R989 12 VOLT 10W. (Quartz) R989/Q10 12 VOLT 20W.(Quartz) R989/Q20 (20 Times Brighter than Std R989)
	(Amber) 12 VOLT 60/60 R416 TYPE P36t BASE (BRITISH PRE 1978 STOCK) 6 VOLT 30/24W P212		SLOTTED BASE 6 VOLT R282 12 VOLT 2 WATT R281
	0 vOL1 50/24 w K312 12 VOLT 50/40 WATT R414 12 VOLT 48/48 WATT R414/J 12 VOLT 50/40 W. (Tai) R414/J 12 VOLT 50/40 W. (Tai) R414/C QUARTZ (DIRECT REPLACEME 12 VOLT 60/55 WATT R414/C *(UsesSTOCKBulbHolder-GREATPrice!!) *(UsesSTOCKBulbHolder-GREATPrice!!) *(UsesSTOCKBulbHolder-GREATPrice!!) *(UsesSTOCKBulbHolder-GREATPrice!!)	CP N NT)* Nu 2 A M:	OTE: umbers listed are Mostly "Narva" Brand fgd. by Phillips Germany NOT Lucas
	7165 30th Avenue North Website: www.mapcycle.com Email: sal	St. Petersb es@mapcycle.com	urg, Florida 33710 = 57





——— M.R.P. Cycle Enterprises, Jnc. ———

CONNE	CTOP	SLEEVE	1 -1						
HP221 (5496066	Terminal 1) Standard 1/4" Space	HP222 (54190042) he HP225		HP301 (900269) HP302	Bullet (Sold up to 28 Stra Bullet (Sold	er Type) nds078" er Type)		99002	Grommet 5/16" Bore
HP241	Terminal	(54190119) (double wire) HP242 (54190043)		HP309 HP314	28+ Strands - Bullet (Crim 9 Strands0 Bullet (Crim	.090" ap Type) 40"	3 5	4190000	Terminal Male Blade
(349420) HP311 (900288)	2-Way Connect Connects 2 Bullets	(0+1900+0) COT	Ø	188818	14 Strands Sleeve Terr	minal	J H	IP252 54190038)	Terminal 3/16" Male Blade
HP312 (850641)	4-Way Connect Connects 4 Bullets ((common)	0	HP251 (187700)	Generators Co Eyelet 1/8" Bolt Hole	onnections	J (S	IP252 54190096)	Terminal 3/16" Male Blade
НР323	6-Way Connect Connects 6 ullets (co	or ommon)	Cr.p	HP253 (900450)	Eyelet 1/4" Bolt Hole	e (Battery)	AN IS	IP994 54191562)	Terminal Double Male Blade
HP335 (850832)	10-Way Connec Connects 5 Isolated	c tor Bullet Pairs		(900450)	5/16" Bolt Ho	le	MAG SH	IMS (Lucas Requir proper	K1FC, NC1, K2FC & KNC1) ed to adjust for bearing clearance
0 18863	9 O'Ring Distributor Drive Sh	aft	Ð	187704 187709	Eyelet (3/16 Eyelet (1/8'	" Side Eyelet) ' Side Eyelet)		Order	: 458355 (3-Hole) : 452906 (4-Hole)
0		Pickup K1F & K2F (Clij (Universal RH/) Order 45919	p Type) LH) 0/P		1010	3	45926 18770	59 Mag ()4 Term	Cover Complete inal Kit
e.		Pickup K1F & K2F (Clij Order LH 45	p Fixed) 8866		-	°C)	4211 4251	06 15D1 9 18D2	Dist Points Dist Points
		Order RH 45	8865				4081 4106	20 3/4"I 00 3/8"S	ong Coil Nut Short Coil Nut
O.S.		Pickup K1F & K2F (Scr Order 45887	ew on) 6/P						
47502/A GEA 70-2226 GAS 188614 SEA 459002 SEA	AR (Fiber), Triun SKET, Generato L, Generator	mph Mag Au r to Case	to Advan	ice	45126 45519 45519 20073	50 BUS 90 BUS 90 BUS 97 BRU	SH & SP SH & SP SH & SP JSHES,	RING, M RING, M RING, M Genera	Mag Pickup Mag Ground Mag End Cap ator
		FUSE/HOLD 54190387 54938986 MAP4230 188218	DER F F F F	TUSE HO TUSE HO TUSE HO TUSE - 2	OLDER P. OLDER w OLDER B 20 AMP (L	ARTS ONI ith LEADS LACK (inc LUCAS)	LY - LUC S - LUCA :. Fuse 8	AS (Ord AS (Orde & Leads)	er 188218 Fuse) r 188218 Fuse) Tai
		WIRE TIES MAP4250 MAP4252 MAP4255 MAP4257	55 58 80	5½" BLA 5½" BLA 3" BLAC 3" BLAC	CK NYLC CK NYLC K NYLON K NYLON	N WIRE 1 N WIRE 1 WIRE TIE WIRE TIE	TES (10 TES (10 ES (10pk ES (100p	pk) Opk) c) ok)	
				SPAR	K PLUGS	1			
MAKE/MODE	L	ND (DE	ENSO) ²]	NGK		C	HAMPION
TRI 500 II's (A)		W20ESU (W	ESU	Ę	1 	BIES			N4C
BSA 441/500 I' NORTON 750/	s 850 (ALL)	W22E W22E	SGU EPU		В	P7ES		Ν	V7YC (projected nose
TRI/BSA (all n	ot listed above)	W24ESU (W24EPU)		B8ES	(BP8ES)			N3
¹ NOTE Plugs a: ² NOTE: ND "PU" We High Most Mi	'NOTE Plugs are Listed Hottest First in Descending Heat Range N2C 'NOTE: ND "PU" Plugs are Projected Nose "U-GAP" for Broader Heat Range(stays cleaner longer), We Highly Recommended these Plugs for Longest Lifewith the Best Throttle Response & Most Mileage. For fans of NGK use the "BP" prefix. N2C								
				BAT	TERIES				
MAKE /MOD	EL	YUAS	SA (USA))					ACID
TRI/BSA (6V) TRI/BSA/NOI TRIUMPH T1 NORTON MK) R (12V NOT MK 60 IIII	TIII) Y12N9 YB16 YB1	94B1 5LB 4L		ERIFY C 5N11A1B 7B386A YB396	URRECT # (4-3/4 x) (4-5/8 x) (5 x 1-7/	≢ BY SIZ 2-1/2 x 5 3-1/4 x 6 8 x 5")	E (LxWz -1/4") -3/8")	(H):
60	7165 30th Website: wy	Avenue N ww.mapcvcle.co	orth om Emai	S I: sales@	t. Peter	sburg, om Phone	Florida e (727) 381	a 33710 -1151	

These wiring harnesses are O.E. Stock Type Cloth Wrapped (unless noted as PVC below) including Original Type Wires with English color coding. Though not Genuine Lucas, these are the best available currently.

Dot Dot Dot B2555, 860 17.72 H046 H046H B40 64-66 H152 Points are in Case B33, B34, Gold STAR All H001 All Swing Arm Frames A7, 710 54-62 H002 All Swing Arm Frames A85 H0 Frame, Zener under Forks All Swing Arm Frames A85 F7 H129 12V Wign on Frame, Zener under Forks A60, A65 168-69 H013 12V Wign on Frame, Zener under Forks A75 71-73 H052 H062H Oll In Frame Models Geots, 750 Atlas 164-67 H039 12V wilg magneto Pastion Commando 72-75 H032 Last Models wi2-Gold & Alternator Commando 72-75 H032 Last Models wi2-Gold & Alternator Commando 72-75 H032 M181 M1141 & M114 Wtl K VC losis Commando 72-75 H032 M181 M1141 Mtl Mtl K VC losis Commando 72-75 H032 M1141 Mtl Mtl K VC losis M1741 Hatterator </th <th>Make</th> <th>Model</th> <th>Year</th> <th>Main</th> <th>Headlight</th> <th>Comments/Notes</th>	Make	Model	Year	Main	Headlight	Comments/Notes
E255S, 850 71.72 H046 H046H B40 74.74 H051 All Swing Arm Frames A7,A10 All Swing Arm Frames All Swing Arm Frames A7,A10 Frames All Swing Arm Frames A65 H142 6V Models A65 H142 Early 12V w2 Swine Zener Linder Seat A65 G6-7 H030 Early 12V w2 Swine Zener Linder Seat A50,A65 G6-7 H031 12V A50,A65 G6-7 H032 H022H A50,A65 G8-70 H015 wilndicators & 01 Lipit Switch A65 T1-73 H032 H022H Nottori T1-73 H032 H022H Nottori T1-73 H032 H124H Commando T7-76 H032 H124H Matter H1165H K114 H164H Singles 46-49 H031 Early M024B/// M026B/// M026B Commando T7-75 H032 H154H Trumph: K11432 H024H<	BSA: 225 B4/	1	69 71	L151		
Base Base <th< td=""><td>B2599</td><td>B50</td><td>71-72</td><td>H046</td><td>нолен</td><td></td></th<>	B2599	B50	71-72	H046	нолен	
B33 B34 Cold STAR All H001 All Swing Arm Frames A7,A10 66 thru 66 H044 6V Models A65 thru 66 H044 6V Models A65 thru 66 H040 Earl 12V w2 Switches in headlamp A65 thru 76 H139 12V w1gn on Frame. Zener under Fosts A50,A65 t68-79 H013 12V w1gn on Frame. Zener under Fosts A50,A65 t68-70 H032 12V w1dig on Frame. Zener under Fosts A75 thru 70 H145 Windicators & OIL Light Switch A75 thru 70 H145 H062H Notton thru 70 H145 H062H Notton thru 70 H145 H062H Commando t68-71 H032 Late Models w2-cols & Alternator, Featharbod Commando t68-71 H032 Late Models w2-cols & Alternator, Featharbod Commando t72.75 H032 H032H Distributor & Alternator Models Trepres '46-49 H051S Instrument Panel in Tank	B40	600	64-66	H152	110-011	Points are in Case
A7,410 54-62 H002 All Swing Arm Frames A65 106-67 H040 Early 127 wi2 Switches in headlamp A65 106-67 H040 Early 127 wi2 Switches in headlamp A65 107 H130 127 wilg non Frame, Zener under Seat A65 107 H130 127 wilg non Frame, Zener under Seat A65 107 H130 127 wilg non Frame, Zener under Seat A65 117.73 H028 H021 A75 111.70 H028 H022H A75 111.73 H028 H022H Commando 168-67 H030 Late Models w2/Doits in Mapneto Position Commando 168-71 H312 Points in Timing Cover Commando 168-70 H032H NK114 With 02 Colls Commando 168-71 H322H Points in	B33.B34	.Gold STAR	All	H001		All Swing Arm Frames
A65 thru (56 H014 6V Models A65 166-67 H040 Early 12V w125 witches in headlamp A65 167 H130 12V w125 witches in headlamp A65 167-10 12V w125 witches in headlamp A65 167-10 12V w125 witches in headlamp A65 167-10 12V w125 witches in headlamp A65 177-3 H028 H 1001 in Frame Models A75 thru -70 H145 H028 H 1001 in Frame Models A75 thru -70 H145 H028 H 1001 in Frame Models B50S, 5750 Atlas 68-67 H039 L2V w1Magneto & Alternator, Featherbed Commando 72-75 H032 H H032 H MK11 & MK11 & MK11 & MK11 & M16 V Coils Commando 72-75 H032 H H032 H MK11 & MK11 & MK11 & MK11 & M16 V Coils Commando 72-75 H032 H H031 H MK11 & MK11 & MK11 & M16 V Coils Commando 72-75 H032 H MK11 & MK11 & M16 V Coils K117 Z0 K116 K TimorpLine Singles	A7,A10	,	'54-62	H002		All Swing Arm Frames
A65 66-67 H040 Early 12V w/2 switches in headiamp A65 67 H130 12V w/lgn on Frame, Zener under Seat A65 67 H129 12V w/lgn on Frame, Zener under Seat A65 68-99 H013 12V w/lgn on Frame, Zener under Seat A65 68-79 H013 12V Mass 64-67 H039 12V Norton: 65055,750 Allas 64-67 H039 12V w/lagneto & Alternator, Featherbed P11 (650 Mercury) 64-67 H039 12V w/lagneto & Alternator, Featherbed Commando 17-70 H032 H052H Commando 17-70 H032 H041H MKII & MKI	A65		thru '65	H014		6V Models
A65 67 H130 12V wlgn on Frame, Zener under Seat A65 67 H129 12V wlgn on Frame, Zener under Forks A65 68-99 H013 12V wlgn on Frame, Zener under Forks A65 68-99 H013 12V wlgn on Frame, Zener under Forks A65 68-99 H013 12V wlgn on Frame, Zener under Forks A75 thrur, 70 H145 H028H Oil in Frame Models A75 thrur, 70 H145 H028H Oil in Frame Models 65053, 750 Allas 64-67 H039 12V wlgneto & Alternator, Featherbed Commando 172-75 H032H H032H MKI1 & MKI1	A65		'66-67	H040		Early 12V w/2 Switches in headlamp
A65 67 H129 12V wilgn on Frame, Zener under Forks A50,A65 98-70 H015 wilndicators & Oil Light Switch A50,A65 98-70 H015 wilndicators & Oil Light Switch A55 17-77 H025 H028H Oil in Frame Models A75 17-73 H062 H028H Oil in Frame Models Norton: 6605S,750 Allas 64-67 H039 Late Models w/2-Coils & Alternator, Featherbed F11 (650 Mercury) 68-on H311 Early Modelss w/Points in Magneto Position Commando 72-75 H032 H032H MKII & MKIIA With 6V Coils Commando 72-75 H032 Instrument Panel in Tank Engine Case Points & 2 / 48312320F & & 4094431 Tisoper 46-49 H051S Instrument Panel in Tank Engine CasePoints & 2 / 48312320F & & 4094431 Tige Cub Y8-70 H046H Engine CasePoints & 2 / 48312320F & & 4094431 Engine CasePoints & 2 / 4831291 Tige Cub Y8-70 H046H H046H* Main Harness S4959400 (H0Light Harness wilding 54959532) Tige Cub Y8-70 <td>A65</td> <td></td> <td>'67</td> <td>H130</td> <td></td> <td>12V w/Ign on Frame, Zener under Seat</td>	A65		'67	H130		12V w/Ign on Frame, Zener under Seat
ABO, A65 GB+69 H013 12V ABO, A65 GP-70 H015 Windicators & Oil Light Switch ABS T1-73 H028H Oil in Frame Models AF5 T1-73 H028H Oil in Frame Models AF5 T1-73 H062H H062H Notion: G50SS,750 Altas G4-67 H030 Late Models w/2-Coils & Alternator Commando G8-76B H311 Early Models w/2-Coils & Alternator Commando 78-76 H312 Points in Timing Cover Commando 72-75 H032 MKII & KMIA with VC Oils Commando 72-76 H035 Instrument Panel in Tank Tinger Cub F64 H201 Distributor & 1 Haadamp Switch (839101) T202S.M.SMSST F2-65 H204 EngineCasePoints & 2 Switchs (5494418) Tiger Cub F64 H202 EngineCasePoints & 2 Switchs (8494418) TR2SW F670 H104 H123 Twin Coll. Alternator Models w-2x885A Switch (839413) T122SSS, 822SS 71-72 H046 H046H <td>A65</td> <td></td> <td><u>'67</u></td> <td>H129</td> <td></td> <td>12V w/lgn on Frame, Zener under Forks</td>	A65		<u>'67</u>	H129		12V w/lgn on Frame, Zener under Forks
Abs/Abs 69-70 H015 Windicators & Ol Light Switch Abs Thr.73 H145 Oil in Frame Models Ar5 thm.70 H145 H028 Oil in Frame Models Notoric Gommando 64-67 H030 Late Models w/2-coils & Alternator Commando 67-68 H311 Early Modelss w/2-coils & Alternator Commando 75-on H115 H116H MKII & MKIIA with 6V Coils Commando 75-on H115 H116H MKII (PVC) Timpic 46-49 H051S Instrument Panel in Tank MKII & Statu (PVC) Tiger Cub 46-49 H051S Instrument Panel in Tank MKII & Statu (PVC) Tiger Cub 46-49 H051S Instrument Panel in Tank MKII & Statu (PVC) Tiger Cub 46-49 H051S Instrument Panel in Tank MKII & Statu (PVC) Tiger Cub 46-49 H051S Instrument Panel in Tank MKII & Statu (PVC) Tiger Cub H203 EngineCasePoints & 2 Msatu (PVC) MKII & M	A50,A65		'68-'69	H013		12V
Abs 171-73 HU28 HU28H Out In Frame Models A75 111-70 H145 H062H Notron: 65055,750 Attas 64-67 H039 12V w/Magneto & Alternator, Featherbed F11 (650 Mercury) 66-on H039 Late Models w/2-Coils & Alternator Commando 75-68 H311 Early Models w/2-Coils & Alternator Commando 75-76 H312 Points in Timing Cover Commando 75-76 H314 Early Models w/2-Coils & Alternator Commando 75-76 H315 F106 KW Coils Commando 75-76 H031 Instrument Panel in Tank Tig 72 Orb 76 4 H201 Distributor & 1 Headamp Switch (839101) T205 M, SM, SS, Tu 66 6 H204 EngineCasePoints & 2 HeadLight Switche (54094418) Tig 72 Orb 74 443 H031 Instrument Panel in Tank TR28W 56 70 H019 Twice Coil, Alternator Models w-2x855. SWitch (8494418) TR25 (PU) 46-49 H0361 Instrument Panel in Tank TR37 T0 (PU) <	A50,A65		69-70	H015		w/Indicators & Oil Light Switch
Ar3 Initiu 70 IH43 Nortic 71-73 H0621 Nortic 95-00 122 w/Magneto & Alternator Featherbed P11 (650 Mercury) 68-00 Late Models w/2-colis & Alternator Commando 67-68 H311 Early Modelss w/2-colis & Alternator Commando 75-00 H115 H116H MKII & MKIIA with 6V Colis Commando 75-01 H115 Influe (PVC) (H117 is the Console Harness (PVC) Tingre 75-01 H115 Instrument Panel in Tank Salot 55 4004413 Tisr_20 Terrier, Tiger Cub 56-63 H201 Distributor & 1 Headingr, Switch (833101) TabS M.SM.SS,T 62-65 H202 Erngine CasePoints & 2 Switches in Sub 404418) Tiger Cub 64 H203 Erngine CasePoints & 2 Switches in Mag & 50-904533 TR2SS, SSS, SZSS 71-72 H046 H04H Min Harness 5495440 ('HdLight harness wiplug 54959532) Twi H123 H044H H041 Instrument Panel in Tank TR2SS, SZSS, SZSS 1-72 H046 H0444 H0448 Min Harne	A65		·/1-/3	H028	H028H	Oil in Frame Models
Noticit 11002 11002 65055.750 Atlas 64-67 H039 12V w/Magneto & Alternator, Featherbad 65055.750 Atlas 67-68 H311 Early Modelss w/2-Coils & Alternator, Featherbad Commando 167-68 H311 Early Modelss w/2-Coils & Alternator, Featherbad Commando 75-70 H115 H116 MKIII (PVC) (H117 is the Console Harness (PVC)) (H118 is the Front Brack Harness (PVC)) Instrument Panel in Tank Singles 46-49 H051S Instrument Panel in Tank Tisf, 720 Terrier, Tiger Cub 164-64 H021 EnglineCasePoints & 2 Headluph Switch (839101) T205, M,MS,S,T 162-65 H204 E.T. Ignition 99-0732 / 54932326E & 54094433 Tiger Cub 164-70 H046 H046H* Min Harness 1/4064 Moles w/2x885A Switch TREX 98-70 H036 H036H* Mino Cil, Alternator Models w/2x885A Switch Tiger Cub 164-70 H046 H046H* Mino Cil, Alternator Models w/2x885A Switch T100, T100 (PU) 149-51 H256 Nacelle, Nacelle, Nacelle, Nacelle, Restant, Mag & Dyno 5167 (A75		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		ПОЕЗП	
Number 12V w/Magneto & Alternator, Feshinebed P11 (650 Mercury) (68-71 H330 Late Models w/2-Colis & Alternator Commando (67-68 H311 Early Modelss w/Points in Magneto Position Commando (72-75 H032 H032H MKII & MKIIA with 6V Colis Commando (72-75 H032 H032H MKII & MKIIA with 6V Colis Commando (72-75 H032 H116 MKII & MKIIA with 6V Colis Commando (72-75 H032 H116 MKIII (PVC) (H117 is the Console Harness (PVC)) (H118 is the Front Brake Harness (PVC)) (H119 is the Ignition Harness (PVC)) Timmph: Singles (46-49 H051 Distributor & 1 Headlamp Switch (839101) Tiger Cub Fe4 H046H Main Harness 54959480 ('HdLight harness w/plug 54959532) Tik Tik Tik Nun Coli, Alternator Models w-2x485A Switch Tis (710) H405 H046H Main Harness 54959480 ('HdLight harness w/plug 54959532) Tik Tik Tik Strib Strib Tik Strib (PU) H465 H046	Norton:		11-75	11002	1100211	
P11 (60 Mercury) '88-on H030 Late Modes w/2-Coils & Alemator Commando '67-68 H311 Early Modelss w/2-Coils & Alemator Commando '67-68 H311 Early Modelss w/2-Coils & Alemator Commando '72-75 H032 H011 KILI w/V Modelss w/2-Coils & Alemator Commando '72-75 H032 H011 KILI w/V Modelss w/2-Coils & Alemator Singles '46-49 H051S Instrument Panel in Tank T15,720 Terrier, Tiger Cub '66-63 H201 Distributor & 1 Headiamp Switch (839101) T205,M,MSS,T '22-66 H204 E. T. Igniton 99-0732 / 54932324E & 54094413 Tiger Cub '64-4 H202 EngineCasePoints & 2 Headiamp Switch (839101) T205,M,MSS,T '28-72 H036 H046H* Min Hamess f/495490 (H411ght hamess w/9lug 54959532) TRW '67-72 H036 H046H* Min Hamess f/4954940 (H411ght hamess w/9lug 54959532) TRW '7-72 H036 H046H* Min Hamess f/4954940 (H411ght hamess w/9lug 54959532) TW '1120 '140,F10 (FU)<	65055 7	50 Atlas	'64-67	H039		12V w/Magneto & Alternator Featherbed
Commando 67-68 H311 Early Modelss wPoints in Timing Cover Commando 72-75 H032 H032H MKII & MKII & Vicolis Commando 72-75 H032 H032H MKII & MKII & Vicolis Commando 72-75 H032 H032H MKII & MKII & Vicolis Commando 72-75 H032 H031K Instrument Panel in Tank TidsT20 Terrier,Tiger Cub 56-63 H201 Distributor & 1 Headlamp Switch (839101) Tager Cub 64-49 H051S Instrument Panel in Tank Tiger Cub 64-70 H046H* Main Hamess 4959480 (*HdLight hamess w/plug 54959832) Titer Cub 46-49 H0615 Instrument Panel in Tank TR2SW 68-70 H023 Instrument Panel in Tank TR2SV 58-71-72 H046 H046H* Main Hamess 4959480 (*HdLight hamess w/plug 54959532) TRW 110, 110, 51.61 (PU) 46-49 H051 Instrument Panel in Tank T100, 110, 71.20 (PU) 46-49 H051 Instrument Panel in Tank T100, 110, 7120, TR6 F02	P11 (65)) Mercury)	'68-on	H030		Late Models w/2-Coils & Alternator
Commando 68-71 H312 Points in Timing Cover Commando 72-75 H032 H118 H118 MKII & KKII & WKII & WKIB V Colls Commando 75-on H115 H118 IKII & MKII & WKIB V Colls Singles 46-49 H0515 Instrument Panel in Tank Tist, 720 Terrier, Tiger Cub 56-63 H201 Distributor & 1 Headlamp Switch (839101) T205.MS,MS,ST 52-66 H204 EngineCasePoints & 2 Switches under Seat 549323262 & 54094433 Tiger Cub H203 EngineCasePoints & 2 Switches under Seat 54959480 ("HdLight harness w/plug 54959532) TRX2SS, B25SS 71-72 H046 H046H* Main Harness 54959480 ("HdLight harness w/plug 54959532) TRW H123 Twin Coil, Alternator Models w-2x885A Switch Tistrument Panel in Tank TS (FU) '46-49 H051 Instrument Panel in Tank Main Paness w/plug 54959532) TRW H123 Twin Coil, Alternator Models w-2x885A Switch Tistrument Panel in Tank TS (FU) '46-49 H016 GV, LightVign Switch in Nacelle, Mag & Alternator Tistrument Panel in Tank	Comma	ndo	67-68	H311		Early Modelss w/Points in Magneto Position
Commando 72-75 H032 H032H MKII & MKII & With EV Colis Commando 75-on H116H MKII & MKII & With EV Colis Inumph: Singles 46-49 H051S Instrument Panel in Tank T15,T20 Terrier,Tiger Cub 56-63 H201 Distributor & 1 Headlamp Switch (839101) T205,MSM,SS,T 62-65 H204 E.T. Igniticase Points & 2 HeadLight Switches (54094418) Tiger Cub H203 EngineCasePoints & 2 Switches under Seat TR2SW 66-70 H019 TR2SW 66-70 H019 TR2STR6 (PU) 46-49 H051 TR8,TR6 (PU) thru S5 H007 Separate Headlamp (no plug) Mag & Dyno ST-67, F00 ST (PU) 49-51 H256 Nacelle, Neg Earth, Mag & Dyno ST-67, F02 T100, T101, T120, (PU) 55-59 H008 Nacelle, Nag & Dyno T110, F10, (PU) 60-62 H013 Light Switch in Nacelle, Coli on top of Distributor T110, (PU) 60-62 H014 Light Switch in Nacelle, Coli no top of Distributor	Comma	ndo	'68-71	H312		Points in Timing Cover
Commando 75-on H115 H116H MKIII (PVC) (H117 is the Console Hamess (PVC)) (H117 is the Console Hamess (PVC)) (H117 is the Console Hamess (PVC)) Triumph: Singles 46-49 H051S Instrument Panel in Tank T15, T20 Terrier, Tiger Cub 56-63 H201 Distributor & 1 Headlamp Switch (839101) T205M, MS, SS, T 52-65 H204 E.T. Ignition 99-0732 / 54932326E & 54094433 Tiger Cub H203 EngineCasePoints & 2 Switches under Seat TR2SSS, B25SS 71-72 H046 H046H* TR2SSS, B25SS H052 Nacelle, Neg & Dyno F16, T/DU '46-49 H016 K, Light/Ign Switch In Nacelle, Mag & Alternator T100, T10, T20 F01 Single Switch In Nacelle, Mag & Alternator T120, TR6 (PU) '56-5 H126 K/ Light/Ign Switch In N	Comma	ndo	'72-75	H032	H032H	MKII & MKIIA with 6V Coils
(H117 is the Console Harness (PVC)) (H118 is the Front Brake Harness (PVC)) (H119 is the Ignition Harness (PVC)) Singles '46-49 H051S Instrument Panel in Tank T15,T20 Terrier, Tiger Cub 56-63 H201 E.T. Ignition 99-0732, 549323226E & 54094433 Tiger Cub 164 H202 EngineCasePoints & 2 HeadLight Switches (54094418) TR25W 68-70 H019 H203 EngineCasePoints & 2 Switches under Seat TR25W 68-70 H019 H203 EngineCasePoints & 2 Switches under Seat TR85,TR6 (PU) 'H125 H007 Separate Headlamp (no plug) Mag & Dyno ST (PU) '46-49 H0051 Instrument Panel in Tank TR5,TR6 (PU) 'H125 H007 Separate Headlamp (no plug) Mag & Dyno ST (PU) '46-49 H006 KV. Light/Jin Switch in Nacelle, Coil on top of Distributor T100,T10.0,TR0 (PU) '55-55 H002 Nacelle, Mag & Dyno ST (PU) '66-62 H017 Light Switch in Nacelle, Coil on top of Distributor T110,(PU) '60-62 H016 KV. Light/Jin Switch in SidePanel 9-0729 / 54094	Comma	ndo	'75-on	H115	H116H	MKIII (PVC)
Trumph: '46-49 H051S Instrument Panel in Tank Tidgr Cub '66-63 H201 Distributor & 1 Headlamp Switch (839101) T205M, MS,SS,T '62-66 H202 EngineCasePoints & 2 HeadLight Switches (54094433) Tiger Cub '64 H202 EngineCasePoints & 2 Switches under Seat TR25SW '68-70 H019 Fill TR25SS, 525SS 71-72 H046 H046H Main Harness 54959480 ('HdLight harness wiplug 54959532) Twin Coil, Alternator Models w-2x885A Switch T100, T100 (PU) '46-49 H051 Instrument Panel in Tank ST(PU) '46-49 H051 Instrument Panel in Tank ST(FT) (PU) '46-49 H051 Instrument Panel in Tank ST(T) (PU) '46-49 H051 Instrument Panel in Tank ST(T) (PU) '46-49 H051 Instrument Panel in Tank ST(T) (PU) '46-49 H051 Instrument Panel in Tank Start Mag & Dyno Mag & Dyno Mag & Dyno T100,110,120,TR6 H052 H066 KU Light Mareseat		(H117 is the Con	sole Harness (PVC)) (H118	is the Fron	t Brake Harness (PVC)) (H119 is the Ignition Harness (PVC))
Singles Instrument Panel in Instrument Panel Panel Pane	Triumph:					
T13:20. Telleli, Tiger Cub 56-65 H201 Distribution 24 (Heading) Switch (G29:101) T1205, MALSS, T 52-65 H204 E.T. (grintion 99-0732 / 549323/26 & \$4094413) Tiger Cub H202 EngineCasePoints & 2 Switches under Seat TR255W 58-70 H019 TR255S, B25SS T7-72 H046 H046H TR25W Yein Coil, Alternator Models w-2x885A Switch TR7W 46-49 H051 TR700 (PU) Yein Coil, Alternator Models w-2x885A Switch T00,110,1120 (PU) Yein Coil, Alternator Models w-2x885A Switch T100,110,1120 (PU) Yein Coil, Alternator Models w-2x885A Switch T100,110,1120 (PU) Yein Coil, Alternator T100,110,1120 (PU) Yein Coil, Alternator T110,110,1120 (PU) Yein Coil, Alternator T100,110,1120,TR6 (PC) Yein Coil, Yein Coil, Alternator T100,110,1120,TR6 (FC) Yein Coil, Yein	Singles	Terrier Timer Out	'46-49	H051S		Instrument Panel in Tank
Tiger Cub Factor Fact	115,120 T200 M	Ierrier, liger Cub	50-03 162 65	H201		Distributor & T Headlamp Switch (839101)
Inger Cub Or Intzz EngineCasePoints & 2 Mitches unders (Jobert 16) Tiger Cub FagineCasePoints & 2 Switches unders (Jobert 16) EngineCasePoints & 2 Switches unders (Jobert 16) TRZ5SS, B2SS Ti-72 H046 H046H* Main Harness 54959480 ('HdLight harness w/plug 54959532) TRW Tract 10 (PU) '46-49 H051 Instrument Panel in Tank TRS,TR6 (PU) thru's 58 H007 Separate Headlamp (no plug) Mag & Dyno T100,T110,T120 (PU) '45-59 H008 Nacelle, Neg Earth, Mag & Dyno T100,T10,T120 (PU) '54-59 H016 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor T100,T10,T120,TR6 (PU) '60-62 H017 Light Switch in Nacelle, Coil on top of Distributor T100,T120,TR6 (FU) '60-62 S7-62 H012 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor T100,S3 '120,TR6 (PU) '60-62 S7-62 H021 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor T100,T120,TR6 '63-64 H122 GV, Light/Ign Switch (PRS8A) in LH Side Panel, 2 Coils T90,T100,T120,TR6 '66 H128 CV 2 Switches in	Tigor Ci	31VI,33, I 15	02-00 '64	H204		E. 1. 191111011 99-07327 34932320E & 34094433 EngineCaseDointe & 2 HeadLight Switches (54004418)
TR25W G8-70 H019 Engineeeded Figureeeeded TR25SS, B25SS 71-72 H046 H046H* Main Hamess 54959480 ("HdLight hamess w/plug 54959532) TRW H123 Twin Coll, Alternator Models w-2x885A Switch ST (PU) t46-49 H051 Instrument Panel in Tank TR8, TR6 (PU) thur 58 H007 Separate Headiamp (no plug) Mag & Dyno T100, T110, ST,6T (PU) 52-55 H052 Nacelle, Pos Earth, Mag & Dyno ST,6T (PU) 54-59 H016 KV. Ight/lgn Switch in Nacelle, Mag & Alternator T110, (T10, ST,6T (PU) 56-59 H016 KV. Ight/lgn Switch in Nacelle, Mag & Alternator T100, T10, T120, (F0) 56-54 H016 KV. Dist., Light/lgn Switch in Nacelle, & 61 W/coil under seat) T00055 '63-64 H02 KV. Dist., Light/lgn Switch in Nacelle, Alternator T00007120, TR6 '65 H128 KV. 2 Ewitches in Nacelle, 2 Colis T90, T100, T120, TR6 '65 H128 KV. 2 Light.Switch (M88A) & Spade lgn.Switch in SidePanel, 2 Pore under Tank T90, T100, T120, TR6 '66 H024 Light.Switch on Forks, Zener under B	Tiger Cu	ib ih	04	H202		EngineCasePoints & 2 Switches under Seat
TR2525S, B25SS 71-72 H046 H046H* Main Hamess 5495040 ('HdLight hamess w/plug 54959532) TRW H123 Twin Coil, Alternator Models w-2x88SA Switch TR8, TR6 (PU) thru 58 H007 Separate Headiamp (no plug) Mag & Dyno Str.GT, T100 (PU) '49-51 H226 Nacelle, Neg Earth, Mag & Dyno T100, T10, T120 (PU) '52-55 H052 Nacelle, Neg Earth, Mag & Dyno Str.GT, TV0 (PU) '52-55 H016 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor T110, T120, TR6 (PU) '60-62 H017 Light Switch in Nacelle, Goil on top of Distributor T110, T120, TR6 (FU) '60-62 H018 Light Switch in Nacelle, Goil on top of Distributor T100, T120, TR6 (FU) '63-64 H102 GV, Light/Ign Switch in Nacelle, & GT w/coil under seat) T00, T120, TR6 (FU) '63-65 H222 GV, 2 Switches in Nacelle, 2 Coils STA, 5TA, 6T '63 H128 GV, 2 Switches in Nacelle, 2 Coils T100, T120, TR6 (FU) '66-67 H131 AC Magneto (Energy Transfer System) SGA4 H022 T100, T120, TR6 (FO) '67 H023 (5493540) Comp.Model.5%" H1/amp,Capacito, No Ammeter	TR25W	0	'68-70	H019		
TRW H123 Twin Coil, Alternator Models w-2x88SA Switch 5T (PU) '4e-49 H051 TR5,TR6 (PU) thru '58 H007 Str,GT,T100 (PU) '49-51 H256 T100,T10,ST,6T (PU) '52-55 H052 Nacelle, Pos Earth, Mag & Dyno Nacelle, Pos Earth, Mag & Dyno T100,T10,T120 (PU) '54-59 H016 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor Light Switch in Nacelle, Coil on top of Distributor T110, FT07,T120,TR6 (PU) '60-62 H016 Sta,STA,& 6T (60-62) '57-62 H021 6V, Dist., Light/Ign Switch (PRSB) in SidePanel, 2Coils Sta,STA,STA,GT '63-64 H102 6V, 2 Switches (88SA) in SidePanel, Zener under Tank 190,T100,T120,TR6 '66 H023 64/338941 12V, 2 Light.Witch (19RSB) in SidePanel, Zener under Tank 190,T100,T120,TR6 '66 H023 (54938941) 12V, 2 Light.Witch (1808A) Sapade [n,Switch in Side Panel] 100C,TR6C,T120TT '66 H024 '2 Switches in Nacelle, Zener under Tank 190,T100,T120,TR6 '68 H024 '2 Switches in Nacelle, Si3'' H/Jamp,Cap.SO-Ligh	TR25SS	. B25SS	71-72	H046	H046H*	Main Harness 54959480 (*HdLight harness w/plug 54959532)
5T (PU) '46-49 H051 Instrument Panel in Tank TR5,TR6 (PU) thu:'58 H007 Separate Headlamp (no plug) Mag & Dyno 5T,6T,T100 (PU) '49-51 H256 Nacelle, Neg Earth, Mag & Dyno T100,T110,T51,6T (PU) '52-55 H062 Nacelle, Neg Earth, Mag & Dyno 5T,6T (PU) '54-59 H016 6V, Light/Ign Switch in Nacelle, Mag & Alternator T110 (PU) '60-62 H018 Light Switch in Nacelle, Mag & Alternator 3TA,5TA & 6T (60-62) '57-62 H021 6V, Light/Ign Switch in Nacelle, & GB W/coli under seat) 1100SS '63-64 H102 6V, 2 Switches in Nacelle, & Colis 3TA,5TA,6T '63-64 H221 6V, 2 Switches (88SA) in LH Side Panel, 2 Colis 790,T100,T120,TR6 '65 H126 6V, 2 Lt.Switch in SidePanel, Horn under Gas Tank 190,T100,T120,TR6 '66 H128 12V, 2 Light.Switch in SidePanel, Pane under Tank 190,T100,T120,TR6 '66 H023 (54938941) 12V, 1 Light W/ms,Capa.8C-Light,No Ammeter 190,T100,T120,TR6 '67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T '66 H023 (54953440) Comp.Mode	TRW	,		H123		Twin Coil, Alternator Models w-2x88SA Switch
TR5.TR6 (PU) thru '58 H007 Separate Headlamp (no plug) Mag & Dyno 5T6.T.100 (PU) '49-51 H266 Nacelle, Neg Earth, Mag & Dyno T100.T110.ST6T (PU) '52-55 H052 Nacelle, Neg Earth, Mag & Dyno 5T.6T (PU) '54-59 H016 GV, Light/Ign Switch in Nacelle, Coil on top of Distributor T110.(TR6 (PU) '60-62 H017 Light Switch Under Seat, Mag & Alternator 3TA,STA & 6T (60-62) '57-62 H021 6V, Dist, Light/Ign Switch in Nacelle, & 6T w/coil under seat) 1000SS '63-64 H221 6V, 2 Switches (ABSA) in SidePanel 99-0729 / 54094363 3TA,STA,AGT '63-65 H222 6V, 2 Switches (ABSA) in SidePanel 99-0729 / 54094363 100,T120,TR6 '65 H126 6V, 2 Switches (ABSA) in SidePanel, 2 Coils 190,T100,T120,TR6 '66 H023 (54938941) 12V, 2 Light.Switch (88SA) in SidePanel, Zener under Tank 190,T100,T120,TR6 '66 H023 (54938941) 12V, 2 Light.Switch in SidePanel 5495049 190,T100,T120,TR6 '67 H025 Comp.Model,534" HJamp, Cap.80-Light.No Ammeter 100C,TR6C '69-70 H133 (54955796)	5T (PU)		'46-49	H051		Instrument Panel in Tank
57.6T, T100 (PU) '49-51 H256 Nacelle, Pos Earth, Mag & Dyno T100, T10, 57.6T (PU) '55-59 H062 Nacelle, Pos Earth, Mag & Dyno 57.6T (PU) '54-59 H016 6V, Light/Ign Switch in Nacelle, Coil on top of Distributor T110, (PU) '60-62 H017 Light Switch in Nacelle, Mag & Alternator T120, TR6 (PU) '60-62 H017 Light Switch Under Seat, Mag & Alternator T100, T120, TR6 (FU) '63-64 H102 6V, Light/Ign Switch (PRS8) in SidePanel 99-0729 / 54094363 T90, T100, T120, TR6 '63-64 H221 6V, 2 Switches in Nacelle, Zeoils T90, T100, T120, TR6 '65 H126 6V, 2 Liwitch in SidePanel, 2 Coils T90, T100, T120, TR6 '65 H128 12V, 2 Light.Switch (R8SA) in LH SidePanel, Zener under Tank T90, T100, T120, TR6 '66 H023 (54938941) 12V, 1 Light Switch in SidePanel, Zener under Tank T90, T100, T120, TR6 '66 H023 (54935719) Comp.Model, 532" H/lamp, Cap. AO-Light, No Ammeter T100C, TR6C '68 H132 (54955709) Comp.Model, 532" H/lamp, Cap. AO-Light, No Ammeter T100C, TR6C '69-70 H133 (54955719) Comp.Model, 532" H/lamp, Cap. AO-Light, No Ammeter <	TR5,TR	6 (PU)	thru '58	H007		Separate Headlamp (no plug) Mag & Dyno
T100, T110, T120 (PU) '52-55 H052 Nacelle, Pos Earth, Mag & Dyno 5T, 6T (PU) '54-'59 H016 6V, Light/Ign Switch in Nacelle, Coil on top of Distributor T110 (PU) '60-62 H017 Light Switch in Nacelle, Mag & Alternator 3TA, 5TA & 6T ('60-62) '57-62 H021 6V, Light/Ign Switch in Nacelle, & GT w/coil under seat) T100, T120, TR6 (PU) '60-62 H017 Light Switch in Nacelle, Mag & Alternator 3TA, 5TA & 6T ('60-62) '57-62 H021 6V, Light/Ign Switch (PRS8) in SidePanel 99-0729 / 54094363 T90, T100, T120, TR6 '63-64 H221 6V, 2 Switches (88SA) in LH Side Panel, 2 Coils 3T90, T100, T120, TR6 '65 H126 6V, 2 L Switch in SidePanel, Horn under Gas Tank T90, T100, T120, TR6 '66 H023 (54938941) 2V, 1 Light Switch (RS8A) & Spade Ign.Switch in SidePanel, Zener under Tank T90, T100, T120, TR6 '66 H024 2V, 1 Light.Switch in H/amp, Ign.Sw in SidePanel 54950449 T100C, TR6C '69 H133 (54955719) Comp.Model,5%" H/amp, Capactor, No Ammeter T100C, TR6C '69-70 H134 (54957096) Comp.Model,5%" H/amp, Cap. & O-Light, No Ammeter T100C, TR6C '69-70 H127 <	5T,6T,T1	00 (PU)	'49-51	H256		Nacelle, Neg Earth, Mag & Dyno
T100,110,1120 (PU) 55-59 H008 Nacelle, Mag & Dyno 5T.6T (PU) 56-52 H016 6V, Light/gin Switch in Nacelle, Coil on top of Distributor T110 (PU) 60-62 H017 Light Switch in Nacelle, Mag & Alternator 3TA,5TA & 6T (60-62) 57-62 H021 6V, Dist., Light/gin Switch in Nacelle, & 6T w/coil under seat, 7100,5S 63-64 H102 6V, Dist., Light/gin Switch in SidePanel, 2 Coils 3TA,5TA,6T 63-65 H222 6V, 2 Switches in Nacelle, 2 Coils 90,7100,7120,TR6 65 H128 12V, 2 Light.Switch (BSA) in DidePanel, 2 coils 790,7100,7120,TR6 66 H023 (54938941) 12V, 1 Light Switch (BSA), in SidePanel, Zener under Tank 790,7100,7120,TR6 66 H023 (54938941) 12V, 1 Light Switch (BSA), a Spade Ign.Switch in Side Panel 54950449 7100C,TR6C,T120,TR6 67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 7100C,TR6C 68 H132 (54955719) Comp.Model,5%" H/lamp, Capacitor,No Ammeter 7100C,TR6C 69 H133 (54955719) Comp.Model,5%" H/lamp, Capacitor,No Ammeter 7100C,TR6C 68-70 H127 Ga9552571 Grom.Model,5%" H/lamp, Cap.80-Light, No Ammeter	T100,T1	10,5T,6T (PU)	'52-55	H052		Nacelle, Pos Earth, Mag & Dyno
51,61 (PU) 54-59 H016 by, Light/gn Switch in Nacelle, Coll on top of Distributor T110 (PU) '60-62 H017 Light Switch in Nacelle, Mag & Alternator 3TA,5TA & 6T ('60-62) '57-62 H021 6V, Dist., Light/lgn Switch in Nacelle, & 6T w/coil under seat) T100SS '63-64 H102 6V, Light/lgn Switch (PRS8) in SidePanel 99-0729 / 54094363 T90,T100,T120,TR6 '65 H222 6V, 2 Switches (88SA) in LH Side Panel, 2 Coils T90,T100,T120,TR6 '65 H126 6V, 2 Switches in Nacelle, 2 Coils T90,T100,T120,TR6 '66 H023 (54938941) 12V, 1 Light Switch in SidePanel, Horn under Gas Tank T90,T100,T120,TR6 '66 H023 (54938941) 12V, 1 Light Switch in SidePanel, Zener under Tank T90,T100,T120,TR6 '66 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100,T120,TR6 '67 H025 12V, 1 Switch in H/amp,Capacitor,No Ammeter T100C,TR6C '69 H133 (54955719) Comp.Model,5%" H/lamp,Capacitor,No Ammeter T100C,TR6C '69-70 H127 as H027 wiTum signals, oil switch, USA Specs. Adventurer (TR5T) '71-72 H038 2-piece Harness, Erake Light Switch on Colle <t< td=""><td>1100,11</td><td>0,1120 (PU)</td><td>55-59</td><td>H008</td><td></td><td>Nacelle, Mag & Dyno</td></t<>	1100,11	0,1120 (PU)	55-59	H008		Nacelle, Mag & Dyno
1110 (PO) 60-62 H017 Light Switch In Nacelle, Mag & Alternator 3TA, STA & 6T (60-62) '57-62 H021 6V, Dist, Light/Ign Switch In Nacelle, & 6T w/coil under seat) 1100SS '63-64 H102 6V, Light/Ign Switch (PRS8) in SidePanel 99-0729 / 54094363 3T90, T100, T120, TR6 '65 H222 6V, 2 Switches (88SA) in LH Side Panel, 2 Coils 3T0, T100, T120, TR6 '65 H28 6V, 2 LiSwitch (88SA) in SidePanel, Zener under Tank T90, T100, T120, TR6 '66 H023 (54938941) 12V, 1 Light Switch (88SA) & Spade Ign. Switch in Side Panel, Zener under Tank T90, T100, T120, TR6 '66 H024 12V, 2 Light.Switch (88SA) & Spade Ign. Switch in SidePanel 54950449 T100C, TR6C, T120, TR6 '67 H024 12V, 1 Switch in Nacelle, Zener Under Seat T90, T100, T120, TR6 '67 H024 12V, 1 Switch in Nacelle, Zener Under Seat T90, T100, T120, TR6 '69 H133 (54957096) Comp.Model,5%'' H/lamp,Cap.&O-Light, No Ammeter T100C, TR6C '69+70 H134 (54957096) Comp.Model,5%'' H/lamp, Cap.&O-Light, No Ammeter T100, T120, TR6 '69-70 H027 (5495527) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light T100, T120, TR6 '69-	51,61 (P	U)	54-59	H016		6V, Light/Ign Switch in Nacelle, Coil on top of Distributor
1120, IR0 (FD) 00-02 10015 Difference 3TA, 5TA, & GT (60-62) 57-62 H021 6V, Dist., Light/Ign Switch in Nacelle, & GT w/coil under seat) 1100SS 63-64 H102 6V, Dist., Light/Ign Switch in Nacelle, & GT w/coil under seat) 3TA, 5TA, 6T 63-64 H221 6V, 2 Switches (88SA) in LH Side Panel, 2 Coils 3TA, 5TA, 6T 63-65 H222 6V, 2 Switches (88SA) in SidePanel, 2 coils 190, T100, T120, TR6 65 H126 6V, 2 Switches (88SA) in SidePanel, 2 coils 190, T100, T120, TR6 66 H023 (54938941) 12V, 1 Light Sw (88SA) & Spade Ign.Switch in Side Panel 100C, TR6C, T120, TR6 66 H024 12V, 2 Switches in Nacelle, Zener Under Seat 190, T100, T120, TR6 67 H025 12V, 1 Switch in Macel, SW in SidePanel 54950449 100C, TR6C 68 H133 (54955719) Comp.Model, 5% ''H/amp, Capa.80-Light, No Ammeter 1100C, T120, TR6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt 1100, T120, TR6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt 1100, T120, TR6 69-70 H027 S4951591 Switch on Forks, Z	T110 (P		60-62			Light Switch Inder Seet Mag & Alternator
T100SS 63-64 H102 6V, Light/Ight Switch (PRS8) in SidePanel, 2 Coils T90,T100,T120,TR6 63-64 H221 6V, 2 Switches in Nacelle, 2 Coils T90,T100,T120,TR6 65 H126 6V, 2 Lit.Switch in SidePanel, 4 Coils T90,T100,T120,TR6 65 H126 6V, 2 Lit.Switch in SidePanel, 4 Coils T90,T100,T120,TR6 66 H023 (54383841) T100C,TR6C,T120TT 66-67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T 66 H024 12V, 1 Light Switch (88SA) & Spade [gn.Switch in SidePanel 54950449] T100C,TR6C,T120TT 66-67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T 66 H024 12V, 1 Switch in H/lamp,Ign.Switch is SidePanel 54950449 T100C,TR6C 69-70 H132 (54953440) Comp.Model,53/* H/lamp,Capa.CorLight,No Ammeter T100C,TR6C 69-70 H137 (54955719) Comp.Model,53/* H/lamp,Cap.8c-Light Switch, Kill But.No Ammeter T100,T120,TR6 69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) 72-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T100R	3TA 5TA	& 6T ('60-62)	60-62 67-62	H021		6V Dist Light/Ign Switch in Nacelle & 6T w/coil under seat)
190,7100,7120,7R6 63-64 H221 6V, 2 Switches (8SA) in LH Side Panel, 2 Coils 374,57A,6T 63-65 H222 6V, 2 Switches (8SA) in LH Side Panel, 2 Coils 190,7100,7120,7R6 65 H126 6V, 2 Litswitch in SidePanel, Horn under Gas Tank 190,7100,7120,7R6 66 H023 (54938941) 12V, 2 Light.Switch (8SSA) in SidePanel, Zener under Tank 190,7100,7120,7R6 66 H023 (54938941) 12V, 1 Light Sw (8SA) & Spade Ign.Switch in Side Panel 7100,7120,7R6 66 H024 12V, 2 Switches in Nacelle, Zener Under Seat 790,7100,7120,7R6 67 H025 12V, 1 Switch in H/lamp,Ign.Sw in SidePanel 54950449 7100,7120,7R6 69 H133 (54955719) Comp.Model,5%" H/lamp, Capacitor,No Ammeter 7100,7120,7R6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light 7100,7120,7R6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light 7100,7120,7R6 71-72 H033 99-1258 / 54961591 Switch, USA Specs. 7100,7120,7R6 73-74 H034 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster 7140R 73-75 H071 Front & Rear Disc Brake, LH Shi	T100SS	a or (00-02)	'63-64	H1021		6V Light/Ign Switch (PRS8) in SidePanel 99-0729 / 54094363
3TA,5TA,6T 63-65 H222 6V, 2 Switches in Nacelle, 2 Coils 190,T100,T120,TR6 65 H126 6V, 2 Lt.Switch in SidePanel, Horn under Gas Tank 190,T100,T120,TR6 66 H126 6V, 2 Lt.Switch in SidePanel, Horn under Gas Tank 190,T100,T120,TR6 66 H023 (54938941) 12V, 1 Light Switch (88SA) & Spade Ign.Switch in Side Panel 1100C,TR6C,T120TT 66-67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T 66 H024 12V, 2 Switches in Nacelle, Zener Under Seat 190,T100,T120,TR6 67 H025 12V, 1 Switch in H/lamp,Capacitor,No Ammeter 100C,TR6C 68 H132 (54955719) Comp.Model,534" H/lamp, Cap.80-Light,No Ammeter 1100,T120,TR6 69-70 H134 (54957096) Comp.Model,534" H/lamp, Cap.80-Light,No Ammeter 190,T100,T120,TR6 69-70 H127 g.Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt 190,T100,T120,TR6 69-70 H127 g.Switch on Forks, Zener under Bot.Fork, Jung Lt 190,T100,T120,TR6 69-70 H127 as H027 190,T100,T120,TR6 19-774 H033 99-1258 / 54961591 1100R 71-73 H024	T90 T10	0 T120 TR6	63-64	H221		6V 2 Switches (88SA) in LH Side Panel 2 Coils
T90,T100,T120,TR6 '65 H126 6V, 2 Lt.Switch in SidePanel, Horn under Gas Tank T90,T100,T120,TR6 '66 H128 12V, 2 Light.Switch (885A) in SidePanel, Zener under Tank T90,T100,T120,TR6 '66 H023 (54938941) 12V, 1 Light Switch (885A) is Spade Ign.Switch in Side Panel T100C,TR6C,T120TT '66-67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T '66 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100,T120,TR6 '67 H025 12V, 1 Switch in H/lamp,Cap.acotro,No Ammeter T100C,TR6C '68 H132 (5495719) Comp.Model,5%" H/lamp,Cap.acotro,No Ammeter T100C,TR6C '69-70 H134 (54957096) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T100C,TR6C '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 '69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventure (TR5T) '72-74 H038 -2-piece Harness, Brake Light Switch in RH Cluster T100R '73-74 H028 H028H Oil in Frame Models T140V&TR7KV '73-75 H071 Front & Rear Disc Brake, LH Shift 54961593	3TA.5TA	6T	63-65	H222		6V. 2 Switches in Nacelle, 2 Coils
T90,T100,T120,TR6 '65 H128 12V, 2 Light.Switch (88SA) & Spade Ign.Switch in Side Panel, Zener under Tank T90,T100,T120,TR6 '66 H023 (54938941) 12V, 1 Light Sw (88SA) & Spade Ign.Switch in Side Panel AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T '66 H024 12V, 1 Switch in H/lamp,Ign.Sw in Side Panel T90,T100,T120,TR6 '67 H025 12V, 1 Switch in H/lamp,Ign.Sw in Side Panel 54950449 T100C,TR6C '68 H133 (54955719) Comp.Model,5%" H/lamp,Capacitor,No Ammeter T100C,TR6C '69-70 H134 (54957096) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T100,T120,TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 '69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) '72-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028 Oil in Frame Models T140V & TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140V & TR7RV '73-76 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140V & TR7RV	T90,T10	0,T120,TR6	'65	H126		6V, 2 Lt.Switch in SidePanel, Horn under Gas Tank
T90,T100,T120,T120,T120,T16 '66 H023 (54938941) 12V, 1 Light Sw (88SA) & Spade Ign.Switch in Side Panel T100C,TR6C,T120TT '66 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100,T120,TR6 '67 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100,T120,TR6 '67 H025 12V, 1 Switch in H/lamp,Ign.Sw in SidePanel 54950449 T100C,TR6C '68 H132 (54953440) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T100C,TR6C '69-70 H134 (54957096) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T90,T100,T120,TR6 '68 H026 Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T100R '71-72 H038 2-piece Harness, Brake Light Switch on Cable T100,T120,TR6 '69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) '72-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140V&TR7RV '73-75 H074 3-Phase Alt., Neg.	T90, T10	0,T120,TR6	'65	H128		12V, 2 Light.Switch (88SA) in SidePanel, Zener under Tank
T100C,TR6C,T120TT '66-67 H131 AC Magneto (Energy Transfer System) 99-0794 / 54937097 3TA,5TA,6T '66 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100T120,TR6 '67 H025 12V, 1 Switch in H/lamp,Ign.Sw in SidePanel 54950449 T100C,TR6C '68 H132 (54953440) Comp.Model,5¾" H/lamp,Cap.acotor,No Ammeter T100C,TR6C '69-70 H134 (54957096) Comp.Model,5¾" H/lamp,Cap.&O-Light,No Ammeter T100C,TR6C '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T00R '71-72 H038 2-piece Harness, Brake Light Switch on Cable T100R '71-72 H038 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T1400R '73-74 H028 H028H Oil in Frame Models T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Concial Drum Brake, RH Shift 54961593 St Phase Alt., Triple ZenerPack (PVC) (60-7465) T140E '79-80 H074 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) <t< td=""><td>T90,T10</td><td>0,T120,TR6</td><td>'66</td><td>H023 (5493</td><td>8941)</td><td>12V, 1 Light Sw (88SA) & Spade Ign.Switch in Side Panel</td></t<>	T90,T10	0,T120,TR6	'66	H023 (5493	8941)	12V, 1 Light Sw (88SA) & Spade Ign.Switch in Side Panel
3TA,5TA,6T '66 H024 12V, 2 Switches in Nacelle, Zener Under Seat T90,T100T120,TR6 '67 H025 12V, 1 Switch in H/lamp,Ign.Sw in SidePanel 54950449 T100C,TR6C '68 H132 (54953440) Comp.Model,5%" H/lamp,Capacitor,No Ammeter T100C,TR6C '69 H133 (54955719) Comp.Model,5%" H/lamp,Capacitor,No Ammeter T100C,TR6C '69-70 H134 (54957096) Comp.Model,5%" H/lamp,Cap.aco-Light,No Ammeter T90,T100,T120,TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T100R '71-72 H038 2-piece Harness, Brake Light Switch, USA Specs. Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140V&TR7RV '73-75 H071 Ft Disc Brake Alt., Neg.Ground, one Zener (99-7056) T140E '79-80 H074 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124	T100C,T	R6C,T120TT	66-67	H131		AC Magneto (Energy Transfer System) 99-0794 / 54937097
190, 1100 1120, 1R6 67 H025 12V, 1 Switch in H/lamp, Ign. Sw in SidePanel 54950449 T100C, TR6C '68 H132 (54953440) Comp.Model,5¾" H/lamp, Cap.&O-Light, No Ammeter T100C, TR6C '69 H134 (54957096) Comp.Model,5¾" H/lamp, Cap.&O-Light, No Ammeter T90, T100, T120, TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90, T100, T120, TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light T100R '71-72 H038 2-piece Harness, Brake Light Switch on Cable T100R '71-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140R '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (P9-7056) T140E '79-80 H047 60-2124 / 54955732 T150 '68-70 H047 60-2124 / 54955732 T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurrica	3TA,5TA	.,6T	<u>'66</u>	H024		12V, 2 Switches in Nacelle, Zener Under Seat
T100C, TR6C '68 H132 (54953749) Comp.Model,5%" H/lamp,Capacitor,No Ammeter T100C, TR6C '69 H133 (54955719) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T90,T100,T120,TR6 '69-70 H134 (5495709) Comp.Model,5%" H/lamp,Cap.&O-Light,No Ammeter T90,T100,T120,TR6 '69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 '69-70 H127 H038 2-piece Harness, Brake Light Switch on Cable T100R '71-72 H038 2-piece Harness, Brake Light Switch on Cable as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H Oil in Frame Models T140V&TR7RV '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T140E '79-80 H074 Stenae Alt., Neg.Ground, one Zener (99-7056) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T150 '71-72 H048 H048H Main Harness w/lgn & Lt Switch in Side Panel Hurricane	190,110	01120,1R6	·67	H025	0440	12V, 1 Switch in H/lamp,Ign.Sw in SidePanel 54950449
T100C, TR6C 69 H133 (54957096) Comp.Model, 5¾ "H/lamp, Cdp.aO-Light, No Animeter T90,T100,T120,TR6 68 H026 Ign. Switch on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light T100R '71-72 H038 2-piece Harness, Brake Light Switch, USA Specs. Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140E '79-80 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150 '71-72 H048 H048H Hurricane	T100C, I	RC	-68 -60	H132 (5495	3440)	Comp.Model,5%" H/lamp,Capacitor,No Ammeter
T90,T100,T120,TR6 68 H026 Inr34 (349709) Comp.Mode on Forks, Zener under Bot.Fork, Ign Warnig Lt T90,T100,T120,TR6 68 H027 (54955257) Ign. Switch on Forks, Zener under Bot.Fork, Oil Light T100R '71-72 H038 2-piece Harness, Brake Light Switch on Cable Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H T140V&TR7RV '73-75 H071 Those Brake & Rear Conical Drum Brake, RH Shift 54961593 T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E '79-80 H074 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H078H Hurricane '73 H078 H078 T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T150 '73-74 H049 Ft Disc Brake Models (54961595) <tr< td=""><td>T100C, I</td><td></td><td>69 60 70</td><td>H133 (5495</td><td>5719)</td><td>Comp.Model, 5³/₄ H/Iamp, Cap.&O-Light, No Ammeter</td></tr<>	T100C, I		69 60 70	H133 (5495	5719)	Comp.Model, 5 ³ / ₄ H/Iamp, Cap.&O-Light, No Ammeter
130, 1100, 1120, TR6 69-70 H027 (54955257) Ign. Switch on Forks, Zener under Bot. Fork, Oil Light 100R '71-72 H038 2-piece Harness, Brake Light Switch on Cable 100R '72-74 H033 99-1258 / 54961591 1100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster 1120, TR6 '71-73 H028 H028H 1100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster 1120, TR6 '71-73 H028 H028H 1140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 1140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) 1140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) 1150 '68-70 H047 60-2124 / 54955732 1150 '71-72 H048 H048H Hurricane '73 H078 H078H 1150V '73-74 H049 Ft Disc Brake Models (54961595) 1160 (all) '75-76 H050 H501 1160 (all) '75-76 <	T00C,1	0 T120 TP6	69-70 68	H026	<i>(</i> 1090)	Ian Switch on Forks Zeper under Bot Fork Jan Warnig It
T100,R '71-72 H038 '2-piece Harness, Brake Light Switch on Cable as H027 w/Turn signals, oil switch, USA Specs. T100,T120,TR6 '69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H T140RV & TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150 '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347 St Petersburg Elorida 33710	T90,110	0 T120 TR6	69-70	H027 (5495	5257)	Ian Switch on Forks Zener under Bot Fork. Oil Light
T100,T120,TR6 '69-70 H127 as H027 w/Turn signals, oil switch, USA Specs. Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H Oil in Frame Models T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150 '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347	T100R	0,1120,110	71-72	H038	,0201)	2-piece Harness, Brake Light Switch on Cable
Adventurer (TR5T) '72-74 H033 99-1258 / 54961591 T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H Oil in Frame Models T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T165 30th Avenue North St. Petersburg. Elorida 33710 G1	T100.T1	20.TR6	'69-70	H127		as H027 w/Turn signals, oil switch, USA Specs.
T100R '73-74 H034 3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster T120,TR6 '71-73 H028 H028H Oil in Frame Models T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T160 (all) '75-76 H050 H501 T165 30th Avenue North St. Petersburg, Elorida 33710 G1	Adventu	rer (TR5T)	'72-74	H033		99-1258 / 54961591
T120,TR6 '71-73 H028 H028H Oil in Frame Models T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150 '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T165 30th Avenue North St. Petersburg, Elorida 33710 G1	T100R		'73-74	H034		3 Warning Lights in H/lamp Shell, Ft Brk Switch in RH Cluster
T140V&TR7RV '73-75 H071 Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593 T140RV & TR7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T165 30 th Avenue North St. Petersburg, Elorida 33710 G1	T120,TF	86	'71-73	H028	H028H	Oil in Frame Models
1140RV & [R7RV '76-78 H073 Front & Rear Disc Brake, LH Shift (19-1962) T140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T165 30th Avenue North St. Petersburg, Elorida 33710 10	<u>T</u> 140V&	TR7RV	73-75	H071		Ft Disc Brake & Rear Conical Drum Brake, RH Shift 54961593
1140E '79-80 H074 3-Phase Alt., Neg.Ground, one Zener (99-7056) T140E, ES '81-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 T165 30th Avenue North St. Petersburg, Elorida 33710 11	T140RV	& TR7RV	·76-78	H073		Front & Rear Disc Brake, LH Shift (19-1962)
1140E, ES 31-83 H075 3-Phase Alt., Triple ZenerPack (PVC) (60-7465) T150 '68-70 H047 60-2124 / 54955732 T150 '71-72 H048 H048H Main Harness w/Ign & Lt Switch in Side Panel Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347	T140E	-0	79-80	H074		3-Phase Alt., Neg.Ground, one Zener (99-7056)
1130 00-70 F047 60-21247 54955732 T150 '71-72 H048 H048H Main Harness w/Ign & Lt Switch in Side Panel Hurricane '73 H078 H078H T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347	1140E,	=5	81-83			3-Phase Alt., Triple ZenerPack (PVC) (60-7465)
Hurricane'73H078H078HT150V'73-74H049Ft Disc Brake Models (54961595)T160 (all)'75-76H050H501T160 (all)'75-76H050St. Petersburg, Elorida 33710	1 10U T150		00-70 (71-72	11047 H048	НОЛОН	UU-2124 / 04900702 Main Harness w/lan & Lt Switch in Side Danel
T150V '73-74 H049 Ft Disc Brake Models (54961595) T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347 T165 30 th Avenue North St Petersburg Florida 33710 T161	Hurricar	A	· · · · ∠ ·73	H078		Main haness wigh a li switch in side faller
T160 (all) '75-76 H050 H501 (order H501 for Starter Solenoid SubHarness (PVC)) 60-4347	T150V		·73-74	H049		Ft Disc Brake Models (54961595)
7165 30th Avenue North St Petersburg Florida 33710 = 61	T160 (al	I)	'75-76	H050	H501	(order H501 for Starter Solenoid SubHarness (PVC)) 60-4347
		7165 20	th Avanua	North	c	t Patarshurg Florida 33710 61



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Kit includes: Oil Filter Body, Alloy Cap with O'ring, Pressure Relief Spring along with Element, Oil Line, Chrome Mounting Clamp, Hose Clamps & Instructions.

- MAP6500 Specifically Designed for all Oil-in-Frame BSA/Triumph up 1979 . Mounts Vertically Neatly Behind Tranny, Parallel with Oil Tube (see photo above right) Barely Visible Yet Totally Accessible For Filter Changes. Black Powder Coat Body
- MAP6510 Pre Oil-in-frame Models Can Use This Specially Designed Filter. Mounts Behind Rear Passenger Peg or Virtually Anywhere. Both Spigots Point away From Cap. Black Powder Coat Body. `(photo on right)

70-6571/EFilter Element (Also T150/T160/Rocket III)
70-6571/E**MAP6552**Cap Sealing O'RING (not shown)

For Oil Line See Page 76

MAP6510

MAP 6500 0

NORTON OIL FILTER CARTRIDGE

06-3371 Filter CARTRIDGE NORTON English (All)06-3371/E Filter CARTRIDGE NORTON GOOD Value "EMGO" Brand

OIL COOLERS



Simple, Inexpensive & Easy to Mount Universal OIL COOLERs. Extend Engine Life by Preventing Excessive Oil Temperatures that Greatly Reduces Oil's Lubricating Properties & Engine Life. Straight 5/16" Barb Fittings. .390" Mounting Tab Hole. Available with RH or LH Mounting Tab. Black Finish. Only 1" deep x 2" wide x 7" tall (OA) **MAP6200** OIL COOLER - LH MOUNTING TAB **MAP6205** OIL COOLER - RH MOUNTING TAB

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MAP6000 Fits Triumph 650-750 II's (UNIT CONSTRUCTION)MAP6010 Special CRUSH WASHERS for FINNED TOP OIL LINE (ea.) Uses 2 When REPLACING Line

FINNED COVERS

FINNED CUSTOM TOP OIL LINE

MAP6020 Finned ALLOY Points COVER - Fits All TRIUMPH II'S Beautifully POLISHED. Includes Gasket. Made in USA EXCLUSIVELY by T.A.P. Cycle. (Shown at right)

MAP6025 Finned POINTS COVER - TRIDENT

MAP6035 Finned POINTS COVER - NORTON

MAP6040 Finned ALLOY TRI PRE-UNIT SUMP PLATE



TRIUMPH 500/650II

MAP6070 Finned METAL ROCKER COVERS Beautifully Chromed (SET of 4) (Shown at right)

- MAP6072Finned ALLOY ROCKER COVERS (BARNETT)
4 Rings, Hex TOP, Polished (SET of 4)
- MAP6075 Finned METAL ROCKER COVERS TRIUMPH PRE-UNIT (SET of 4) (Similar to photo at right)
- MAP6050* Finned MOTOR MOUNTS and PASSENGER PEGS for TRI 650 '63 thru '70 (Also T140 in Custom Frames) MADE in US.A. EXCLUSIVELY for ווווויייה ארכי (Cast) (shown at right)
- **MAP6050/B*** Billet 6061-T6 Finned MOTOR MOUNTS and PASSENGER PEGS - Ultra Strong, Fully Machined -Simply Beautiful!!
- MAP6052* Billet 6061-T6 Finned MOTOR MOUNTS ONLY (CAST) Fits TRI 650 '63thru '70 & MOST CUSTOM FRAMES (SET)
- **MAP6052/B*** Billet 6061-T6 Finned MOTOR MOUNTS ONLY -Ultra Strong, Fully Machined Simply Beautiful!!
- **Note**: for stock style T120/TR6 (pre OIF) Motor Mounts use as stock replacements or custom applications Order 82-6066 LH &/or 82-5908 RH (Black)
- MAP6058 AIR FILTER PANELS Replace OUTER COVER on ALL 650/750 OIF TRI/BSA Designed for Velocity Sacks. POLISHED FINS (pr) MADE in USA. *EXCLUSIVELY* FOR ሽሽ.ሽ.P. Cycle.



CUSTOM MOTOR MOUNTS



CUSTOM AIR FILTER PANELS





99-2769 99-2769/E 99-2769/PIN

PADS - Triumph "OE" Lockheed (Front/Rear) uk pr. **PADS** - Triumph (Front/Rear)Tai pr. PIN - Triumph Brake Pad Retaining ea.

PADS - Norton "OE" Lockheed (Front/Rear) uk pr. 06-6186 PADS - Norton (Front/Rear) Tai pr. 06-6186/E

DISK BRAKE PADS



BRAKE SHOE PARTS

BRAKE ROTORS

BRAKE SHOE SPRINGS

A65/B25/B44/T250 (All) T100/T120 '59-on (Except Conical Hubs) T120/T140/A65 '71-72 Conical Hubs COMMANDO (AII)

Various 37-0135 Front 37-3714 Front 06-0014 Front



37-1415 THRUST PAD - Triumph Brake Shoe (Fits 37-1406/7 Shoes)

37-4275	BRAKE ROTOR	TRIUMPH Front/Rear (All Spoked Wheels) Chromed
37-7079	BRAKE ROTOR	TRIUMPH Front/Rear T140D "Special" (Lester Mag) Cast-Iron
37-7175	BRAKE ROTOR	TRIUMPH Front/Rear '80-on (Cast-Iron)
06-6595	BRAKE ROTOR	NORTON COMMANDO Front/Rear (All)

SPEEDO/TACH CA	BLES*			
MAKE/MODEL	YEAR	SPEEDO CABLE	TACH CABLE	SPEEDO GEARBOX
BSA B40, SS80, SS90, C15, D7 B40ES, B40S, B44E, B40 Enduro B44SS, B44VS, C15, B25 B25, B44S, B44GP	1964-65 1964-66 1967 1968	DF9110/0059 DF9110/0061 DF9110/0061 DF9110/0063 DF9110/0063	DF9110/0031 DF9110/0033	BG5330/247 BG5330/247 BG5330/247 BG5330/247 BG5330/247
B44 VS, A50, A65 B25,SS,TT; B44SS, VS; B50SS,T A50RS,S,C;A65SH,S,RS A65T, A65L A50W,RS, A65L,T,H,S,F,FS A50, A65L,T.S A50, A65 A75R A75R	1968 1969-72 1964-65 1964-65 1966-66 1967-70 1971-72 1969-70 1971-72	DF9110/0066 DF9110/0040 DF9110/0044 DF9110/0066 DF9110/0066 DF9110/0066 DF9110/0068 DF9110/0065	DF9110/0033 DF9110/0031 DF9110/0033 DF9110/0033 DF9110/0033 DF9110/0033 DF9111/0025 DF9111/0028	BG5330/247 BG5330/247 BG5330/31 BG5330/31 BG5330/111 BG5330/171 BG5330/164 BG5330/168 BG5330/164
NORTON/MATCHLESS G80, G12 G12CSR, G15, ES2 JUBILEE NAVIGATOR, ELECTRA ATLAS P11 COMMANDO (NOT MKIII) COMMANDO MKIII ONLY JOHN PLAYER REPLICA	1964-68 1964-68 1964-69 1969-70 1969-75 1975-76	DF9110/0068 DF9110/0066 DF9110/0063 DF9110/0063 DF9110/0069 DF9110/0069 DF9110/0069 DF9110/0069 DF9110/0072	DF9111/0032 DF9110/0032 DF9111/0032 DF9111/0032 DF9111/0029 DF9111/0029 DF9111/0029 DF9111/0033	BG5330/287 BG5330/287 BG5330/287 BG5330/257 BG5330/257 BG5330/171 BG5330/171 BG5333/170 BG5330/171
TRIUMPH T25 T100,3TA,5TA T100R,C TR5T TR6,T120 T120 '66 TR6C,R,T120 TR6,T120 TR7,T140 (Not T140D) T140,T140D (all w/Instrument Panel) T150 T150 HURRICANE T160	1967-72 1959-67 1968-74 1973-74 1963-65 1967-70 1967-70 1971-72 1973-79½ 1979½-0n 1968-70 1971-74 1973 1975-76	DF9110/0063 DF9110/0058 DF9110/0063 60-3997 DF9110/0041 DF9110/0065 DF9110/0065 DF9110/0069 DF9110/0069 DF9110/0069 DF9110/0069 DF9110/0072 DF9110/0072	DF9111/0025 DF9111/0028 DF9111/0027 60-3998 DF9158/0035 DF9111/0028 DF9111/0028 DF9111/0030 DF9111/0032 DF9111/0030 DF9111/0031 DF9111/0030	BG5330/31 BG5330/287 BG5330/287 BG5331/104 BG5330/287 BG5330/168 BG5330/164 BG5330/164 (RH Mtg.) 60-7091(LH Mtg.) BG5330/164 BG5330/164 BG5330/164 BG5333/164

***NOTE**: Last 2 Digits of the Part Number Indicate the Length in Inches. When Original Cables are Available Measure Outer Lenth to Verify Correct Length. Ordered Cables will be shipped in next longer length when exact length is not available.



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0	<u> </u>	D	SWIN	IG ARM P	ARTS	00	(D))		
MAKE/ MODEL:	NUT	LOCK TAB	CAP	O-RING/ BOOT	SPACIN WASHE	G R BOBI	BIN BUSH	SPACER/ SPINDLE	BOLT
BSA A50/A65 '68-70 BSA A50/A65 '71-on	82-8995 14-1307	42-4364 83-2266		83-2692		82-89	993 82-899 83-252	3 42-4340 1 83-2691	42-4340 21-2087
TRI 500 II '59-66* TRI 500 II '67-on TRI 650 '63-67 TRI 650 '68-70 TRI 650/750 II's '71-on TRI T150/T160	99-3542 21-0545 14-1307 21-0545	82-7343 82-5944 82-5944 83-2266 82-5944	 82-7848 82-7848	82-7270 82-8090 83-2692 82-8090	82-4078 1 82-6730 	31 32-68 82-68 82-68	82-407 82-407 821 82-604 821 82-604 82-604 83-252 821 82-604	6 82-4195 6 82-7342 2 82-5313 2 82-5313 1 83-2691 2 82-5313	² 82-6150 21-0620 21-2087 21-0620
COMMANDO COMMANDO MKIII				06-0449 06-5227			06-044 06-532	$\begin{array}{c cccc} 7 & 06-0453^3 \\ 0 & 06-4699 \end{array}$	
*NOTE: Also Uses 82-4196 - ¹ NOTE: Use as Needed 82-4. ² NOTE: 21-0579 LH; 21-058 ³ NOTE: Available are: 06-04	Cap (2): 82 385 .003" S 60 RH 453/LNG 7'	2-3797 - RO Shim 82-438 '; 06-0453/\$	D (1): 82-3 36 .005" S1 SRT 6½"; 0	799 - Nut (2) nim 6-0453/005 -	+.005" Ove:	rSize OD			
		Ego	AXLI	E ADJUST	ERS	6	No		
MAKE/ MODEL:	A	ADJUSTER		END CAP			NUT	В	OLT
BSA I's '67-70 BSA I's '71-on BSA II's '62-65 BSA II's '66-70		60-6033 83-3556 68-6032 68-4150		37-101	5	4. 2. 2.	2-4476 4-0563 4-0563		
BSA III's '71-on BSA III's '68-70 BSA III's '71-on TRI I's '68-70		37-3742 37-2089 ³ 37-3919 37-2339		83-3082 37-1015 37-1015 37-1015		14 14 14 70	14-0301 14-1902 14-1902 70-8137		-0107
TRI II's 7/1-on TRI II's TO '68 TRI II's '68-70 ² TRI II's '71-79 ¹ TRI II's '82-on		83-3556 37-1134 37-2089 ³ 37-3742 37-7127		37-1015 37-1015 83-3082		3 14 14 14	37-1058 14-1902 14-0301 14-0302		 -0107 -0118
TRI III's '68-70 TRI III's '71-74 TRI III's '75-76 (RH) TRI III's '75-76 (LH)		37-2089 ³ 37-3919 37-4259 37-4362		37-101 37-101 83-587	5 5 0	14-1902 14-1902 14-0301 14-0301			
COMMANDO '68-74 COMMANDO '75-76		06-0650 06-6109				0	6-0651 4-0301	06	-6405
¹ NOTE: TR5T USES 83-3556 ² NOTE: ALSO ALL TRI 500II ³ NOTE: ONE MAY SUBSTIT	5 ADJUSTE I's NON OIL UTE 37-233	R PLATE & IN-FRAME 39 WITH 37-	83-1969 A •1058 NUT	DJUSTER PLA (SLIGHTLY T	ATE WITH A HINNER)	AXLE	W	HEEL BEA	RINGS*
37-1041BSA I's thru '7037-7042BSA I's '71-on37-1041BSA A50/A65 to37-7042BSA A50/A65 to37-1041BSA A50/A65 to37-7042BSA A50/A65 to37-7042BSA A50/A65 to	o '69 59-70 11-72	RH & LH F RH & LH F RH & LH F RH & LH F RH & LH Q RH & LH F	ront: RH a ront: RH a ront Single ront Doubl uickChang ront & Rea	& LH Rear W & LH Rear W > Leading Sho le Leading Sho ge Rear Hub ar Conical Hu	Theel Theel De Wheel: Oe Wheel b (to '71 B	RH & LH rake Drum	Rear Wheel :: 37-7041)		
37-7042TRI II's & III'sRH & LH Front Single & Double Leading Shoe Hub: RH & LH Front & Rear Conical Hub37-7042TRI II's & III'sRH & LH Front Single & Double Leading Shoe Hub: RH & LH Front & Rear Conical Hub37-7042TRI II's & III'sRH & LH Front Single & Double Leading Shoe Hub: RH & LH Front & Rear Conical Hub37-7042TRI II's & III'sRH & LH Front Disc Hub (RH T160 Rear Disc)37-7041TRI II's & III'sRH & LH Front T1400 ("LESTER"): RH Rear T140D ("LESTER") Wheel37-7041TRI II's & III'sLH Front Disc Hub (Except T140D ("LESTER"))37-7041TRI II's & III'sRH & LH Rear Disc Hub (Except RH Rear T140D & T160): QuickChange Sprocket Brake Drun37-1034TRI II's & III'sRH & LH OuickChange Hub								l Hub Brake Drum	
06-7688 NORTON (750- 06-7710 NORTON (750- 57-3717 NORTON MKII 37-7042 NORTON MKII *NOTE: MAP0966 Bearing	1/-1034IKI II S & III SKH & LH QuickChange Hub16-7688NORTON (750-850)Front Disc-Side Hub (All): Front Drum-Side Hub: Dual Row Bearing (Sprocket) All16-7710NORTON (750-850)Front Disc-Side Hub (All): Front Drum Brake Hub: LH Front Drum16-73717NORTON MKIIIRH Front MKIII Disc Hub: RH Rear MKIII Disc Hub17-7042NORTON MKIIILH Rear MKIII Hub187-7042MAP0966Bearing Lock Ring SPANNER (Removes and Re-installs Screw-on Wheel Bearing Retainers)								
100 / 165 3 Webs	utn AVE site: www.n	nue NOr napcycle.cor	เก n Email:	St. Pe sales@mapo	≠tersbu ;ycle.com	Phone (7	110 a 3371 27) 381-1151	U	





DAMPNING

SPRINGS



P.S. MAGNUM (HEAVY DUTY - FREON CELL)

Shrouded (Covered) Springs

Exposed Chrome Springs

67

EMGO BRAND (ORIGINAL EQUIPMENT TYPE)

		P R O	GRESS	SIVE S	USPEN	NSION	E M C	G O			
MAKE/ MODEL:		PS MAG ¹ SHOCK	PS STD ² SPRING	PS H.D. ² SPRING	OE MAG ¹ SHOCK	OE MAG CHR SPRING ⁴	SHROUDED SPRINGS	EXPOSED SPRINGS			
BSA B25:B44:B50 A50:A65 A50:A65:A70 A75	'65-on '62-70 '71-on '69-on	PS20 PS30 PS10	TF75-130 TF75-130 TF75-130	TF95-140 TF95-140 TF95-140	OE30 OE40 OE20	OE80-120C OE80-120C OE80-120C	17-05591 17-05593 17-05591 17-05593	17-05590 17-05597 17-05590 17-05597			
TRIUMPH T25 3/5TA:T90:T100SS T100T,S TR5T:T100C,R 6T:T110:T120 6T:TR6:T120 T110:TR6C,R,T T120R,C,TT TR6RV:T120RV TR7RV T140V:T140D,E TSX T150:T160 NORTON	'63-72 S '62-on '63-74 '58-61 '62-on '63-72 '63-72 '72-on '72-on '72-on '72-on	PS20 PS10 PS20 PS20 PS10 PS20 PS20 PS10 PS10 PS10 PS10 PS10 PS10	TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130 TF75-130	TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140 TF95-140	OE30 OE20 OE30 OE30 OE20 OE30 OE20 OE20 OE20 OE20 OE30	OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C OE80-120C	17-05591 17-05683 17-05687 17-05591 17-05591 17-05591 17-05591 17-05591 17-05687 17-05687 17-05687 17-05591	17-05590 17-05582 17-05586 17-05590 17-05590 17-05684 17-05590 17-05686 17-05686 17-05686 17-05590			
FEATHERBED COMMANDO	'61-on '68-on	PS20	TF75-130	TF95-140	OE30	OE80-120C	17-05861	17-05680 17-05592			
¹ Requires PS5015 Tra ² BLACK/COMPETIT ⁴ Can be used as Stocl ORDER 62-0059 Sh	 ¹Requires PS5015 Travel Limiter (³/₄"). P.S. MAGNUM may Not Clear Stock Chainguard. ²BLACK/COMPETITION RED 2-Piece Spring. for Softer Chrome 1-Piece Spring ORDER #TF70-120 (70-120lbs). ⁴Can be used as Stock Replacements - for Black Springs, Replace "C" Suffix with "B". ORDER 62-0059 Shock Spring Tension Adjusting Tool as Required. 										
		SHOCK/SPRING SPECIFICATIONS									

PS10 12.5" TF75-130 75-130# OE20 12.5" OE85-120C 85-120# CHR 17-05680/1 11.9" 110lb 17-05590/1 12.9	' 110lb
PS20 13.0" TF95-140 95-140# OE30 13.0" OE85-120B 85-120# BLK 17-05682/3 11.9" 132lb 17-05592 12.9	' 126lb
PS30 13.5" TF105-150 105-150# OE100-140C 100-140# CHR 17-05684/5 12.4" 145lb 17-05593/7 13.4	' 100lb
17-05686/7 12.4" 100lb	

7165 30th Avenue North

M.A.P. Cycle 6061 BILLET Fork Caps



BEST QUALITY - BEST PRICE WARRANTEED

MANUFACTURED in the U.S.A. BY T.A.P. CYCLE to PRECISE SPECIFICATIONS. CNC MADE from SPECIAL HEAT TREATED ALLOY for RESISTANCE to CRACKING or BREAKING. NICELY POLISHED for a GREAT LOOK (BETTER THAN STOCK). AVAILABLE for ALL TRIUMPH/BSA ALLOY LOWER FORK LEGS.

97-4456/MAP LH LOWER "DISC BRAKE" FORK CAP 97-4457/MAP RH LOWER "DISC BRAKE" FORK CAP 97-3947/MAP RH & LH "CONICAL" LOWER FORK CAP

		FRO	NT FORK	PARTS					
MAKE/ MODEL:	FORK TUBES	FORK GAITORS	FORK SEAL	SEAL HOLDER	TOP BUSH	SPACER	BOTTOM BUSH		
BSA B44 '67 BSA B44 '68-69 BSA B44 '70 BSA A50/A65 '62-65 BSA A50/A65 '66-67 BSA A50/A65 '68 BSAA50/A65 '69-70 ³ BSA A50/65/B50 '71-on ²	41-5116 68-5144 97-3905 68-5030 97-2636 97-2636 97-2636 97-3906 97-4007	97-2513/PR 97-2513/PR 42-5320/PR 42-5320/PR 97-2513/PR 97-3635/PR 97-4002*	65-5451 65-5451 65-5451 97-2641 97-2641 97-2641 97-2641 97-1500 97-4001	41-5157 97-2514 97-2514 29-5310/003 68-5132 97-2514 97-3633 	65-5424 65-5424 65-5424 97-2637 ¹ 97-2637 ¹ 97-2637 ¹ 97-0441	 97-3672	41-5137 29-5347 29-5347 97-2638 ¹ 97-2638 ¹ 97-2638 ¹ 97-0443		
TRI I's '68 TRI/BSA I's '69-70 ³ TRI II's to '64 (UNIT) TRI II's '64-68 ^{3,5} TRI II & III's '69-70 ³ TRI I, II & III's '71-72 ² TRI II & III's '73-77 ² TRI II's '78-on ²	97-2636 97-3906 97-1299 97-1889 97-3904 97-4007 97-4380 97-4380	97-2513/PR 97-2513/PR 97-0962/PR 97-1645/PR 97-3635/PR 97-4002* 97-4002* 97-4002*	97-2641 97-1500 97-1168 97-1500 97-1500 97-4001 97-4001 97-7079	97-2514 97-3633 97-1474 97-1654 97-3633 	97-2637 97-0441 97-0441 97-0441 97-0441 	97-1896 97-1896 97-1896 97-1896 	97-2638 97-0443 97-0443 97-0443 97-0443 		
NORTON '63-70 NORTON '71-on	06-7714 06-3423	02-0463/PR 06-1115 ⁴	NM17713 06-5483		06-7521 06-7521		06-7519 06-7519		
 ¹NOTE: SOLD as SETS of 1 Each TOP & BOTTOM (97-2637/2638) ²NOTE: ALLOY LOWER LEGS ONLY (else Footnote #3) 97-4003 O'RING Internal - *97-1510/PR European Accordian GAITORs Also Help) Use 97-4004 WASHER/O'RING, Bottom Bolt Sealing Use PS1114 Progressive Wound Inner SPRINGS for Best Control. ³NOTE: STEEL LOWER LEGS ONLY (else Footnote #2) 60-0340 BAND Gaiter Retaining thru '66 82-4047 CORK (Above Top Spring Abutment) 97-1657 Top Spring ABUTMENT 97-2119 O'RING (Inside of Sealholder at Threads) 97-0431 WASHER (on Top of Top BUSH) 97-2154 SHUTTLE ' 68-on ONLY 97-1058 Bottom Forktube NUT thru '67 97-1762 Top NUT thru '67 97-2245 Top NUT 68-70 ⁴NOTE: ORDER 02-0463/PR (Pre '71) or 06-5743/PR ('71-on) European Accordian GAITORS ⁵NOTE: '68 Uses 97-2092 FORKTUBE (Can use 97-3904 w/97-2245 Top NUT & 97-2091 Bottom NUT) 									
PS5050 TRI-BSA '71-6 Sliding O'ring With Specia Work!! (Set)	on. Replace lly Designed	s Stinction (Stic "Fiber" Ring. M	eking) Causin Make Your Fr	g Sticky, Hai ont End Reall	rd ly PROGRES	SIVE RAT	TE FRONT		
Replace Your Old Wobble	Causing Co	llapsed Fork Sp	rings To Pro	gressive Rate	FO	RK SPRIN	GS		
PS1200 TRI-BSA '68-or PS1114 TRI-BSA 71-on PS1116 TRIUMPH T16 PS1119 NORTON COM	n (ADAPTS to (All Alloy Lo 0 IMANDO (A	o All with EXPOS ower Leg Models LL)	SED SPRINGS	5)					
MAP3600 TRI 500 II's (' Converts Those 40 Loose Bearings Complete with C	67-on) 650 I Hard to W ad Plated Du	I's ('55-on) & 7: ork With Ball ist Shield. Dire	50 III's. NOT s to Tapered ct Replaceme	for O.I.F. Caged Rolle ont. Excellent	TAI BEARIN er t!	PERED ST IGS CONV	EERING ERSION KIT		
MAP3601 As Above wit	h a CHROM	IE Dust SHIELI	Э.						
STOCK N	NECK BE	ARINGS/RA	CES						
65-5126/5127 BSA A50/A 97-1110/SET TRI T100 t 97-0111/SET TRI T100 t 97-0111/SET TRI T120 t 97-4031 TRI-BSA C 37-7041 COMMAN	A65 NECK R. hru '66 NECK 57-74 NECK hru '70 NECK DIL-in-FRAM DO BALL BI	ACES ONLY SE X RACES ONLY SE X RACES ONLY S X RACES ONLY IE (OIF) TAPERI EARINGS SEAL	T (Inc 66-4149 SET (Inc. 97-7 SET (Inc. 97-0 (All using 1/4 ED ROLLER " ED each)) 1140/1130) 439/1018 ' Balls) SET 4 71-on each	Pieces				
60-2368 3/8" BALL BEAR 60-2364 1/4" BALL BEAR	INGS (ea.) INGS (ea.)		60-2362 3/ 60-2363 7/	16" BALL BE 32" BALL BE	ARINGS (ea.) ARINGS (ea.)				

7165 30th Avenue North St. Petersburg, Florida 33710 Website: www.mapcycle.com Email: sales@mapcycle.com Phone (727) 381-1151

		m.R.P. Cycle En	terdrises.	Jnc. ===	
		SFATS			
		SEAIS	BSA		
			82-9732 B44 (VICTOR)	'67-70	
and the second second		and the second	83-2621 B25/B50	- 7/1-72 - 762.65 (DEAD EMDLEM	
		a an	68-9047 A50/65	- '62-65 (ROUND EMBLE	M TANK)
			68-9331 A50/65	- '66 (FLAT SEAT) '67 70 (HUMP SEAT)	
			83-3633 A50/A65/A70	- '71-73 (OIL-in-FRAME)	
			82-8942 A75	- '68-70 (LARGE EARLY	TANK)
NORTON			83-3853 A75	- 71-72 (TEARDROP TAI	NK)
06-1766	ROADS	TER (RIBBED TOP, NO BEAD, SMOOTH SIDES, BLK&C	CHR TRIM, W-STRAP, RND NO	SE, BLK)	'71-72
06-5234 06-3676	ROADS	TER 750 MKII (PLAIN HOLY TOP, BLK BEAD, SMOO TER 850 MKIIA (CHKRD TOP NO BEAD SMOOTH S	TH SIDES, W-STRAP, ROUNDI	ED NOSE, 26" OA, BLK) `RAP_RND FT_26" OA_BLK)	'71-73 '73-74
06-5612	ROADS	TER MKIII (CHKRD TOP, NO BEAD, SMOOTH SIDES,	BLK&CHR TRIM, NO STRAP, L	H HINGD, RND NOSE,	
06-0501	FASTBA	26° OA, BLK) ACK (SMOOTH TOP & SIDES, NO BEAD, NO MOULDIN	IG, W-STRAP, SEAT EXTENDS	OVER SIDES OF TANK, BLK)	'69-72
06-1770	INTERP	OL			'72-74
06-3677	INTERS	TATE (CHKRD TOP, NO BEAD, SMOOTH SIDES, BLK	&CHR TRIM, NO STRAP, FLAT	Г 10" WIDE FT, 26" ОА, BLK)	'73-74
06-5613	INTERS'	TATEMKIII (CHKRD TOP, NO BEAD, SMOOTH SIDES,	BLK&CHR TRIM, NO STRAP, LH	HHINGD, FLAT 10" FT,	75 76
TRIUMPH		20 OA, BLK)			75-70
82-4516	T20 TP25W	(GREY TOP)	I V SIDES DI V& CUD TDIM 2		'63-67
83-3418	TR25SS/	(3111CHED KIBBED BEK 10F, BEK BEAD, SMOOTH B	LK SIDES, BLK& CHK I KIWI, 2.		'71
82-4239 82-4360	3TA-5TA T100C	A-T100A-T100SS (SEE 82-4239 IN TRIUMPH 650 SEC (FAST COAST BLK TOP)	FION FOR DETAILS)		'59-66 '66
82-7776	T100C	(SEE 82-7776 IN TRIUMPH 650 SECTION FOR DETAILS	- ALSO 82-7776A & 82-7482 EA	AST/WEST VARIATIONS)	'67-68
82-7482 83-1573	T100 T100	(SEE 82-7482 IN TRIUMPH 650 SECTION FOR DETAILS (SEE 83-1573 IN TRIUMPH 650 SECTION FOR DETAILS))		'67-68 '70-74
83-4732	TR5T		/ 		'73-74
82-3153 82-3647	51-61-1 T100/T1	100 (RIGID TWINSEAT BLK) (ALSO T100 '50-53: 51/61 10/6T '56-59; 5T '56 (SMOOTH NOT FLAT(ALMOST	50-55) STEPPED) BLK TOP, WH ALM	IOST STRAIGHT BEAD, BLK S	'50-54 IDES,
00 2705	$TD \epsilon / T12$	PORPUS NOSE, NO BOTT TRIM, BLK, FOR 4 GALLO	N GAS TANK)		'54-59
82-3783	1K0/112	FOR 3 GAL. TANK)	P, NOT STEPPED WH BEAD, B	LK SIDES, KD NOSE, BLK,	'55-59
82-4239	6T-T110	(SMOOTH BLK TOP, WH BEAD, BLK SIDES, BLK BOT	T TRIM COVERS CLIPS, 27" OA	A, HINGED)	'60-62
82-4691A	TR6-T12	20 (SMOOTH STEPPED BER TOP, STEPPED WH BEAD	, BLK SIDES, GREY BOTT TRIM	, NO FLIP)	'60-62
82-5366A 82-5366	6T-TR6-	T120 (BLACK SMOOTH (PLAIN) STEPPED TOP, WH 0R-T120C (GREV SMOOTH (PLAIN) STEPPED TOP	BEAD, BLK SIDES, GREY BOT	T TRIM) DES_GREV BOTT TRIM COV-	'63-66
02-5500	050-112	ERS CLIPS, 27" OA, 9" FT TO HINGE, 10" HI	NGE TO HINGE, 13" TO CATCH	H, GLD LOGO)	'63-66
82-7482 82-7776	650 TR6 650	C-T120TT (BLK PLAIN TOP, BLK BEAD, BLK SIDES, (GREY PLAIN LINED TOP, WH BEAD, BLK SIDES, CHR	BLK TRIM COVERS CLIPS, RA TRIM 29" OA 9" FT TO HINGE	AISED TAIL) 5 10" HINGE TO HINGE 12" FT	'67
00 7776	650	TO LATCH, GOLD LOGO, RAISED TAIL)			'67-68
82-77/6A	650	(BLK PLAIN LINED LINED TOP, WH BEAD, BLK SIDES 9" FT TO HINGE, 10" HINGE TO HINGE, 12" FT T	G, GREY TRIM COVERS CLIPS,	THICK, RAISED TAIL, 29" OA	, '67-68
83-1573	650	(WOVEN LINED TOP, BLK BEAD, SMOOTH SIDES, CH	R TRIM, RAISED TAIL BLK, 29	" OA, 8" FT TO HINGE, 10" HIN	NGE
83-3634	TR6R/T	120R (RIBBED SNAKE SKIN TOP, BLK BEAD, SMOOTH	SIDES, BLK&CHR TRIM, 5½" N	NOSE, 26" OA, 6 & 9" TO HINGE.	08-70 ,
83 3634 1	Τ Ρ 6Ρ /Τ΄	8 & 11" HINGE TO HINGE, SUITCASE TYPE CATCH,	BLK, GOLD LOGO)		'71-72
83-4599	TR6RV/	T120RV (WOVEN RIBBED TOP, BLK&CHR TRIM, PL	UNGER TYPE LATCH, RH HIN	NGE, BLK) #CG50414-ON	'72
83-7065	T140	(RIBBED SNAKE SKIN TOP, BLK BEAD, SMOOTH SIDES, 8" HINGE TO HINGE GOLD LOGO BLK)	BLK&CHR TRIM, 26" OA, LH HIN	NGE, 9½" FTTO HINGE,	'73-78
83-7065S	T140	(EURO (LARGE) TANK (1" SHORTER THAN 83-7065)			'73-77
83-7087 83-7127	T140 T140	"SILVERJUBILE" (BLUE TOP & SIDES, RED TRIM) (BLACK-DROP SIDE - ie. BEAD DROPS ALMOST TO BO	OTT TRIM AT DRIVER)		'76 '78
83-7129	T140	(BROWN-DROP SIDE - ie. BEAD DROPS ALMOST TO B	SOTT TRIM AT DRIVER)		'78
83-7129L 83-7271	T140 T140E	(BLACK DROP SIDE LOCKING I YPE - ie. BEAD DROP	S ALMOST TO BOTT TRIM AT	DRIVER)	79 '79
83-7391	T140D				'79 '80 ON
83-8377	TSX	(WILL ALSO FIT ALL OIL IN FRAMES - MAKES NICE C	CUSTOM SMALL STEPPED SEA	ΛT)	'82
82-9996 83-2039	T150 T150	(EARLY SQUARE (LARGE) TANK ONLY)	S CHR TRIM 30" OA 0" ET TO	HINGE 10" HINGE TO HING	'68-70 E
	T 1.00	12" FT TO CATCH, BLK, GOLD LOGO, LATE (TEAR	DROP TANK) 2" LONGER THA	N 83-1573)	'70-74
83-5309 83-3482	T160 X75	(ALL)			'75-76 '73
82-7553	TRIUM	PH SEAT STRAP (UNIVERSAL- MOST WEST COAS	ST US MODELS '63-ON)		
IMPORTAL	NT NOT				
With Inconsi Part Number	stancies in . All The	n the Original Seat Part Numbers Compare the Des e Seats/Seat Covers Sold by M.A.P. are Made in I	criptions Above with Your England and are as Original	Seat and Order by Our Corr as Possible. 83-1573 Will	esponding ll Actually
Fit All Unit	Construct	ction Non O.I.F. Triumph 500/650 II's '63-70.	The Above Triumph Seats	Do NOT Have Seat Stra	ps Unless
specificu. D	ueno mav	e mig hogo milere Original.			

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		UED VITO	1.					011(
BSA SI	EATCO	VER KITS			SE A 68-9	XT PA 330/P	AS0/A65	'63-70	4.	
MAP5004 B2	25-441 '67-7	70 (VICTOR)			83-3	534/P	A50/A65	71-73	- V	
MAP5006 B2 MAP5000 A0	25-B50 OIL· 65 HUMP '(-IN-FRAME 67-70	71-72		82-53	366/P '	T120/TR6	'63-66	•	· W.,
MAP5001 A	65 FLAT '6	6			83-1	573/P	T100 T120/TR6	'67-74 '67-70		-
MAP5002 A0	65 OIL-IN-F 65 Soliare	FRAME '71-7 F BACK '62-	3 65			,	T150	68-74		
MAP5005 RC	OCKET III)	W-WHITE PI	PE)		83-3	534/P	T120/TR6 (RH HING	'71-72 F SUITC	ASE CATCH)	
MAP5005/B RO	OCKET III (W-BLACK P	IPE)		83-4	599/P	T120RV	71-72		
NORTON Map5020 A'	TLAS				83-70)65/P	(RH HING T140/TR7	E PLUNC '73-ON	JER LATCH T	YPE)
MAP5021 FA	ASTBACK '	69-72			06 1	766/D				
MAP5022 R0 MAP5022A R0	OADSTER " OADSTER "	71-72 73-74			00-1	/00/P	COMMAN	DO (PRE	MKIII)	
MAP5022B RO	OADSTER '	75-76		D)	SEA	AT FC	DAM			
MAP5023/73 IN MAP5023 IN	TERSTATE TERSTATE	E '73 (BASKE E '74 (CHECK	F WEAVE TO ERED TOP)	P)	68-9.	330/F	A50/A65	'66-70 (I	HUMP BACK)	
MAP5023A IN	TERSTATE	EMKIII			83-1:	573/F	T100	'67-74 (I	DUAL SEAT)	
MAP5024 H	I-RIDER				83-70)65/F	T120/1R6	67-70 '73-on (H	EXCEPT TSS,	(TSX,T140D)
TRIUMPH Map5065 ti	IGER CUB (GREY TOP BI	K SIDE		83-20)39/F	T150	'70-74		. ,
MAP5063 T2	25 OIL-IN-F	RAME			06-1	766/F	COMMAN	DO ROA	DSTER (NOT	MKIII)
MAP5064 TI MAP5026 "S	R25W TROF SPEED TWI	PHY N" SMOOTH	TOP. WH BE	AD. NO BOT	T TRIM. BLK	50-54				
MAP5030 T1	110 SMOOT	TH TOP, WH I	BEAD, NO BC	TT TRIM, B	LK, '54-59					
MAP5031 11 MAP5032 T1	100 (*59-66) 100 SMOOT	1120 ('60-62) H RIBBED G	SMOOTH TO REY TOP. WI	P, WH BEAL H BEAD. BLI	, BLK BOTT K SIDES	IKIM				
MAP5033 T1	120 BLK PL	AIN FLAT TO	DP '63-66			~				
MAP5034 11 MAP5036 T1	120 GREY P 120 BLK PL	AIN RIB TOP, V	, BLK TOP BEAL	D, GREY BO EAD '67-68	11 IRIM, '63-	-66				
MAP5039 T1	100/T120 GH	REY PLAIN R	IB TOP, WH	BEAD, BLK	SIDE					
MAP5040 T1 MAP5044 T1	100 (69-74) 120 FLAT 8'	" NOSE '71-72	(SAME DESIC 2 (23" LONG)	JIN as 85-157.	SEAT)					
MAP5045 T1	120 FLAT 5	2" NOSE '71-	72 (23" LONO	J)						
MAP5046 T1 MAP5047 T1	120 FLAT 5 120RV/TR61	RV '71½-72 (2	5" LONG)							
MAP5052 T1	140 '73-77	`. 	,							
MAP5055 T1 MAP5054 T1	140 JUBILI 140 '78 BLA	CK DROPSIE	ЭE							
MAP5055 T1	140 '78 BRO	WN DROPSI	DE							
MAP5050 T1 MAP5057 T1	140 78-79 140D "SPEC	CIAL" '79								
MAP5058 T1	140 '81-83									
MAP5061 T1	MAP5060 T150 71-74 MAP5061 T160									
MAP5062 X	75 HURRIC	ANE								
MAP5068 CLIPS/SEAT MOULDING (PER SEAT) MAP5069 CHROME MOULDING ORIGINAL TYPE '67-74										
MAP5069/L CI	HROME MO	OULDING WI	TH BLACK C	ENTER '76-0	on				T)	
MAP5070 SE MAP5075 SE	EAT COVER EAT COVER	R KIT TRI 500 R KIT TRI T14	0 "59-on TRI 65 40 "TRI" W-FO	0.63-70.1R. DAM	I" W-FOAM (WILL A	ALSO FIT	1150 PAP	N)	
MAP5076 SH	EAT COVER	R KIT TRI T14	40 CUSTOM V	V-FOAM						
NOTE: PLEASE B	BE AWARE T	HAT T120 ALSO) INFERS TR6 (S	SINGLE CARB)	UNLESS SPEC	IFIED. A	ALL COVER	S COME W	/ITH TRIM & RE	TANING CLIPS.
	(a)			SE AT 1	DADTCI	\sim				
	<u> </u>		<u>a ()</u> a	SEAL		<u> </u>				
MAKE/		FRONT	REAR	HINGE	FRONT	RE	AR			PLUNGER
MODEL:		HINGE	HINGE	BOLT	BUNG	BU	NG I	KNOB	PLUNGER	SPRING
BSA A65 '71	1/2-0n ²	83-4802	83-4782	14-0101	82-9093	82-9	093 82	2-7560 ³	82-7562	82-4228
TRI 500 II '59	9-66 7 or	82-4222	82-4222	82-9019	82-4898	82-4	898 8	2-4227	82-4226	82-4228
TRI 650 '63-0	67	82-4222	82-4222	82-9019	82-4898	82-7	898 8	2-4227	82-4226	82-4228
TRI 650 '68-7	70	82-8026	82-7862	14-0101	82-4898	82-7	835 82	$2-7560^3$	82-7562	82-4228
TRI 650/750 TRI 750 III's	/1 [/] /2-On ²	83-4802 82-8026	83-4782 82-7862	14-0101	82-9093 82-4898	82-9	1093 82	$2-7560^{3}$ $2-7560^{3}$	82-7562 82-7562	82-4228 82-4228
'NOTE: COMMANDO (PRE MKIII) 06-4009 Seat KNOB; 06-7612 Seat WASHER: 06-0345 NUT; 06-0465 STUD										
⁴ NOTE: EARLY TRI '71 (OIF) USE: 83-3061 Seat LATCH; 83-2597 Latch SPRING; 83-2867 Seat HINGE;										
³ NOTE: 82-7560 is a Complete Knob & Plunger Assembly										
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00-4177	BSA 650 TWINS	HARD COVER	('69-70)
00-4189	BSA 650 TWINS	HARD COVER	('71-ON)
00-4191	BSA TRIPLES	HARD COVER	('69-72)
99-0921 99-0843/0948 99-0836 99-0837 99-0883/0889 99-0947 99-0983 99-7059 99-0887/0963 00.4225/T160	TRIUMPH TR25W TRIUMPH 350/500 T TRIUMPH 500/650 (TRIUMPH 500/650 (TRIUMPH 650 TWI TRIUMPH 650 TWI TRIUMPH 750 TWI TRIUMPH 750 TWI TRIUMPH 750 (T15) TRIUMPH 750 (T15)	TWINS HARD COVE (*45-55) (*55-62) NS HARD COVER (* NS HARD COVER (* NS HARD COVER (* N ELECTRIC HARD 0) HARD COVER (*7	ER ('63-74) 63-70) 71-74) 73-79) COVER ('80-ON) 99-74) '5 76)
06-5146	NORTON 750/850	HARD COVER ('70-	-73)
00-4224	NORTON 850 MKII	I HARDCOVER ('75-	76)
*NOTE: CHECK CUR	RENT PRICE LIST/INC)UIRE FOR ADDITION	S/DELETIONS.

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- M187 NORTON (ALL PRE-COMMANDO II's) M125 NORTON (COMMANDO)
- M414 TRIUMPH TIGER CUB
- M137 TRIUMPH 500 II's (UNIT CONSTRUCTION)
- M251 TRIUMPH 500/650 II's (NON-UNIT CONSTRUCTION)
- M122 TRIUMPH 650/750 II's (UNIT CONSTRUCTION)
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- (Top Mounting. Bolt to Axle is 26.5") Tri 650 1963-70 BOLT-ON 6" LONGER, 3" LOWER S5507
 - (Top Mounting. Bolt to Axle is 28")
- Triumph Pre-Unit BOLT-ON Hardtail Section ('54-62) **S5505**
- BSA/Triumph 650/750 II's WELD-ON (Oil-in-Frame) S5504
- **S5501** BSA A50/A65 '62-70 WELD-ON (Not Oil-in-Frame)
- **S5810** Triumph Pre-Unit Front Frame Section ('54-62)
- S5512 Triumph 650 Front Frame Section ('63-70)
- S5515 Triumph 650/750 Complete Frame 4" Longer S5516
 - Triumph 650/750 Complete Frame 6" Longer

NOTE: Use 37-3901 Spacer & Axle Reducer to use Conical Wheels. (Sold each)

WRAP-A-ROUND OIL TANK

S8028/S Polished *Stainless Steel* Horseshoe Tank Mounts Directly To Down Tube No More Broken Tabs. Also Mounts Higher For Best Looks While Altered To Give Needed Extra Chain Clearance. Integral Battery/Coil Box. Internally baffled return oil line for correct top oil feed for Triumh/BSA engines. Fits All Triumph Pre '71 & Custom Single Down-tube Frames. Includes. S9706 Cap. Uses Stock Pre '71 Oil Tank Filter/Feed Line* or 82-9430/C below for that Custom LOOK!. Designed By T.R.P. Cycle. Made In U.S.A.

HEXAGON OIL TANK

Polished Stainless Hexagon Tankd Mounts Directly To Down Tube No More S8029/S Broken Tabs. Designed to Mount Higher for Good Looks and Altered To Give Needed Extra Chain Clearance. Internally baffled return oil line for Triumh/BSA custom frames. Fits All Triumph Pre '71 & Custom Single Down-tube Frames. Includes: S9706 Cap. Úses Stock Pre '71 Oil Tank Filter/Feed Line* or 82-9430/C below for that Custom LOOK!. Designed By **TI.R.P. Cycle**. Made In U.S.A.

OIL TANK CAP

- **S9706** OIL CAP. Sturdy Push-In Replacement Cap has Quality Rubber Base Construction, Capped with a Chrome Steel Top. Fits Most Plug-in Type Oil Tanks.
- S9706/A Oil "Temp" Cap. Directly Replaces S9706 with a Built-In Temperature Guage. Great Idea for Keeping an Eye on Oil Temperature.
- *Note: Custom Oil Tanks Requires Pre '71 Triumph Original Oil Tank Filter Assembly 82-9430 Oil Filter/Feed Line
 - 82-1713 Filter Washer (Gasket)
 - 82-3655 Oil Line (Feed Pipe)
- NEW! 82-3182 Ferrule (Oil Line Adapting Nut)
 - **82-9430/**C Custom "Screened" Filter Assembly w/Integral 5/16 Hose Barb (Chrome) 82-9430/Z Custom "Screened" Filter Assembly w/Integral 5/16 Hose Barb (Zinc)

GAS/OIL LINE			
HERRINGBONE (6 foot lengths only)	NYLON BRAIDED*	CLEAR VINYL*	
3/16" MAP6590 1/4" MAP6591 5/16" MAP6592 3/8" MAP6593	1/8" MAP6570 3/16" MAP6572 1/4" MAP6574 5/16" MAP6576	1/4" MAP6582 5/16" MAP6586	
NOTE: Herringbone is O.E. on Most Brit Bikes (Made in U.K.)	*NOTE : Sold per each foot	*NOTE : Sold per each foot	



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Our 6" Hig Coils, Cond Top and V Also Good 100% Poli s the USA.b	gh X 7" Wide X 3½" Deep Unit Holds Unsightly densers, Battery And/Or Other Electric Items. Sloped ented Sides Offer Not Only That Custom Look But I Ventilation to Keep Your Electrics Working. shed Stainless Steel. Designed & Manufactured in y TI.A.P. Cycle.
S4503 S4503NL	BATTERY/ELECTRICS BOX. (Louvered) BATTERY/ELECTRICS BOX. (Not Louvered)
	CUSTOM CHAINGUARDS
S3501 S3504 S3506	BSA CHROME for HARDTAIL (Can be used as an INEXPENSIVE Universal.) Tri 650 6" EXTENDED HARDTAIL. (Chrome) "A" = 25"; "B" = 14" Tri 500/650 4" EXTENDED HARDTAIL. (Chrome "A" = 23"; "B" = 12.5"
S3520	UNIVERSAL LH (Includes 3 STRAPS) "A" = 24.5" (Chrome)
S3530 S3531	Tri 650 '63-70 Custom Replacement Inq Tri 650 '63-70 Custom Replacement (Chrome) Inq
STOCK (82-7707 82-7067 83-2641 83-9000 83-3231	CHAINGUARDS (not shown) Tri 500 59-on (NOT TR5T) OE Stock (BLACK) Tri 650 '63-70 OE Stock (BLACK) Tri 650/750 II's '71-on OE Stock (Chrome) Tri T150 All OE Stock (BLACK)
	CUSTOM BRAKE RODS & PARTS
S3005 S3001 82-3597 82-7386 83-2860 82-4585 82-6070 82-7387 37-1467 S3020	Tri 500/650 with 4" HARDTAIL (26") NLA Ref Only Tri 650 with 6" HARDTAIL (28") NLA Ref Only Tri 500/650 to '67 (Stock) Tri 650 '67-70: Tri 500 '67-74 21.5" (Stock) Tri 650 '71-74 19½" (Stock) ADJUSTER Tri 500 '59-66: 650 to '64 (Stock) ADJUSTER Tri 650 '65-66 (Stock) ADJUSTER Tri 650 '65-66 (Stock) ADJUSTER Tri '67-74 (Fits Most Custom Brake Rods) PIVOT PIN for Brake Rod '63-74 (Stock) EXTENDED PIVOT PIN to By-Pass Most Sissy Bars
	"Plain" Flat CUSTOM FENDERS
S5002 S5002/F	6" FLAT FENDER (Plain) 6" FLAT FENDER w/BOBBED TAIL (Plain)
S5004 S5004/A	FATBOB (LH Chain Cutout)PlainFat BobFATBOB with Integral Tailight Mount (LH Chain Cutout) Plain (not shownFat Bob
S5007	Bracket, Chrome Fender Mounting Each
	7165 30th Avenue North St. Petersburg, Florida 33710



M.A.P. Cycle Enterprises, Inc. HANDLEBAR GRIPS J0101 SOFT FOAM, HAND CONTOUR, BLACK 7/8"(Set) J0102 SOFT FOAM, FLAT CONTOUR, BLACK 7/8" (Set) FOAM WITH CHROME ENDS, BLACK 7/8" (Set) J0105 FOAM WITH CHROME ENDS, BLACK 1" (Set) J0106 "GRANTOURISMO" STYLE 7/8-1 X 4.1/2" (Set) J0107 SOFT NON-BLACKENING PVC 1 X 4³/₄" (ea) PVC1 SOFT NON-BLACKENING PVC 7/8 X 43/4" (ea) **PVC78 PVC118** SOFT NON-BLACKENING PVC 1-1/8 X 4³/4" (ea.) J0101 UNIVERSAL THROTTLES (EXCELLANT CHROME PLATING - BEST PRICE) EM71178 DUAL CABLE 7/8" (Emgo) SINGLE CABLE 7/8" A very nice AMAL (364) Copy (pattern) SINGLE CABLE 7/8" (Emgo) 60-7014/P EM771 EM771 1" EM761 SINGLE CABLE (Emgo) 99-0241 SPLIT FERRULECABLE SPACER (STOCK/CUSTOM) 99-0241 HANDLEBAR LEVERS EM2077L 7/8" LEFT-HAND CHROME EM2077R 7/8" RIGHT-HAND CHROME B2071L 1" LEFT-HAND CHROME (Barnett) 1" RIGHT-HAND CHROME (Barnett) B2071R B1016 ADJUSTER (Thumb-Screw Type w/Nut) Barnett (Note: for O.E. Style use 60-3585/3586) AIR (CHOKE)/MAGNETO CONTROL ASSY's (OE Style): (Not Shown) Round-End Lever Style (7/8"): 12/608/E(RH)12/609/E(LH) Flat-End Lever Style (7/8"): 12/601/E (RH) 12/602/E (LH) Flat-End Lever Style (1"): 12/603/E (RH) 12/604/E (LH) UNIVERSAL MIRRORS S2901 RECTANGULAR Bolt-In - Mounts thru HOLE in LEVER. RH/LH S2901/C RECTANGULAR Clamp-On Type (fits RH/LH & 7/8" or 1" Bars) 4" ROUND Tinted Glass with 4" Stem & Clamps (7/8 & 1" Bar) 4" ROUND Tinted Glass with 8" Stem & Clamps (7/8 & 1" Bar) S2902/4 \$2901 S2902/8 4" ROUND Tinted Glass with 10" Stem & Clamps (7/8 & 1"Bar) S2902/10 3" ROUND Tinted Glass with 4" Stem & Clamps (7/8 & 1" Bar) S2906/4 S2902/8 SOLO SEATS & PARTS Sleek Solo Seat & Pillion Pad are Covered in Rich Top Grain Leather. Plain (No Stitch) Top or with Stitch Pattern. Black. Seat is 1" Thick x 9" Wide. Pad is 2" Thick x $4\frac{1}{2}$ " Wide x 7" Long. BLACK "PLAIN" NO STITCH IEATHER COVER SOLO BLACK "STITCHED" LEATHER COVER SOLO2 BLACK "PLAIN" NO STITCH LEATHER COVER BLACK "STICHED" LEATHER COVER PPAD PPAD2 SEAT SPRINGS CHROME 3" Long (Pair) SEAT SPRINGS CHROME 5" Long (Pair) S2308/3 S2308/5 TILT SEAT BRACKET. Slotted for Universal Seat Mounts. Squared "U" S2306 Fits to 1.¹/₂" Wide Weld-on Tube (not supplied) Nice Chrome. 4³/₄" OA TILT SEAT BRACKET. Slotted for Universal Seat Mounts. Rounded "U S2307 S2307 Perfect for 1-1/2" round backbone frames. Show Chrome Quality. 4.1/2"OF

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FORWARD CONTROLS



FOOTPEGS "TRI" INSCRIPT (CHROME) W-BRACKETS FOOTPEGS "HOLLY" INSCRIPT (CHROME) W-BRACKETS

FOOTPEGS "RIBBED" (CHROME) W-BRACKETS

TRI to '68 BSA to '71 STOCK CHROME TRI to '68 BSA to '71 13¹/₂" CHROME

TRI '68-on BSA '71-on STOCK CHROME TRI '68-on BSA '71-on 2" CHROME

TRI '68-on BSA '71-on 131/2" CHROME

TRI '68-on BSA '71-on 15" CHROME

Steel Mounting Plate. (Barnett)

& MOUNTING PAD

(Not Shown)

TRI to '68 BSA to '71 15" CHROME

FOOTPEGS "1" INSCRIPT (CHROME) W-BRACKETS

FOOTPEGS "750" INSCRIPT (CHROME) W-BRACKETS

FOOTPEGS "BSA" INSCRIPT (CHROME) W-BRACKETS

FOOTPEGS "NORTON" INSCRIPT (CHROME) W-BRACKETS

BOLT-ON Universal for 7/8" Frame Tube 9 ¹/₂" LONG (BLACK) BOLT-ON Universal for 1-1/8" Frame Tube 9 ¹/₂" LONG (BLACK) BOLT-ON Universal for 1-1/4" Frame Tube 9 ¹/₂" LONG (BLACK)

TAILIGHT Complete - O.E. Style. Good Universal Light

LENSE Only for S5050 & other CUSTOM TAILLIGHT PAD Only. Protects Paint & Eliminates Damaging Vibrations

Mounting Plate with slight Angle at Tailight. (Barnett)

TAILIGHT Assy - Includes Nicely Chromed Alloy HOUSING

TAILIGHT Assy - Includes Nicely Chromed Alloy HOUSING

TAILLITE & TAG MOUNT. Universal Flat Polished Stainless

TAILLITE & TAG MOUNT. Universal Polished Stainless Steel

"NOTCHED" for REAR FENDER RAIL & MOUNTING PAD.

S2708/S

Perfect Fit For 1970 Triumph "650" Frame (Replaces Triangular Front Motor Mount). Kit Includes: Polished Stainless Steel Bar with Greaseable (Zerk Fitted) Brake & Shift Arms Along with Stainless Steel Round "Square O'Ringed" Pegs and Brake Linkage (Uses Your "Modified" Stock Shift Lever. Easily Adapts To Most Bikes Including Other Triumph 500, 650 & 750's, BSA, Norton & More.

CHROME FOOTPEGS



CUSTOM KICKSTANDS



CUSTOM TAILLIGHTS



CUSTOM HEADLIGHTS



S1507 6 VOLT 30-30 WATT MOTORCYCLE SEALED BEAM
S1508 12 VOLT 30-30 WATT MOTORCYCLE SEALED BEAM
S1511 12 VOLT 50-30W "Halogen" MOTORCYCLE SEALED BEAM
Halogen is Your BEST Choice for the BRIGHTEST Lights while Saving Battery Current!





S2721 S2722

S2723

S2724

S2725

S2726

S2727

S2174

S2155

S2156

S2175 S2157

S2158

S2159 S2197

S2199 S2199

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S5050/S

S5054

S4201

S4202

54576001/E

S5050

		Cycle F	nterprises Inc		
			CUSTOM HEADLIGHT REACKETS		
			COSTON HEADLIGHT BRACKETS		
EM358	UNIVERSAL CUSTOM "H	IOLY" FORK MOU	NTHEADLIGHT		
EM358/	BRACKETS (Chrome) pr UNIVERSAL CUSTOM "H	IOLY" FORK MOU	NT HEADLIGHT		
	BRACKETS (Black) pr				
00011			au		
S2311	CAN BE CUT & SHOW RECH	ROME (Closeout) ROMED FOR COS	ST OF OTHERS)		
S2312 S2314	TRADITIONAL SINGLE BOT	JLE BOTTOM MOUNT. CHROME			
52514	(ANGLED TRIANGULAR CHE	ROME STEEL) Not	Shown		
			S2311		
	CUSTOM GAS TANK	S			
		\$7505	"Mustang" - 16Lx9.25Wx7"H - 2.5Wx2.75 Deep" Tunnel, Std Style Front & Back Tabs (18-3/8" OA), Uses 2 Brit Petcocks. 1 Cap Type, Bare Metal (2.2 Gal)		
		S7506	"Mustang" - 16.5Lx12Wx7"H - 3.5Wx2 Deep" Tunnel, 2 Brit 1/4" Petcocks, 1 Cap Type, Bare Metal, 3 Gallon (Good for O.I.F. Replacement)		
	S7507	\$7507	"Mustang" - 16.5.Lx12Wx7"H - 2.5Wx3.5" Deep Tunnel Has Horseshoe Style Front Tab, Uses 1/4" Brit Petcocks. 1 CapType, Bare Metal (2.8 Gal)		
		S7508	"Mustang" - 16Lx10" Wx7"H - 2.5Wx2.75" Deep Tunnel, Std Style Front & Back Tabs (19-7/8" OA), Uses 2 Brit Petcocks &/or HD Male Petcock. 1 Cap Type, Bare Metal, 2.8 Gallon		
	"Sporty" Gas Tank	S7509	"Mustang" - 16Lx11W - 2.5Wx2.75" Deep Tunnel, Front & Back Tabs (19-7/8" OA), Uses 2 Brit Petcocks &/or HD Male Petcock. 1 Cap Type, Bare Metal, 3.3 Gallon		
	Not Shown	\$7525 \$7501	"Sporty" - 17Lx9.5W 3Wx3.5" Deep Tunnel Uses HD Male Petcock "Sporty" - 15Lx9W - 2.5Wx1.25" Deep Tunnel, Uses 2 Brit Petcocks & HD Male Petcock. 1 Cap type, Bare Metal,		
CUS	TOM/STOCK GAS/OI	L TANK			
	CAPS				
	2 -	S9703 S9702	Custom Tank Deluxe CAP, Spring Loaded Seal. Chrome Custom Tank Economy CAP. Spring Loaded Seal.		
0		83-3875 83-3875/ 83-3875/ 82-4048 82-3217/	 Triumph Stock Tank OE Gas CAP (Domed Top Type) E Triumph Stock Tank OE Gas CAP. (Flat Top Type) L Triumph Stock Tank Locking CAP w/2 Keys Cork GASKET - OE Gas CAP 21 Triumph Gas Cap CHAIN. (OE. Prevent Lost Cap) 		
- Calif		82-9659 82-3216	Triumph Oil Tank OE CAP w/Dip Stick Triumph Oil Tank OE CAP. No Dip Stick.		
S9702		82-4047 82-3217/ 71-2744 71-3463	Cork ĜASKET - OE Oil Tank Cap 18 Oil Tank Cap Retaning CHAIN (Oe. Prevent Lost Cap) Oil Tank CAP Oil-in-Frame (No Dip Stick Type) Oil Tank CAP Oil-in-frame (With Dip-stick)		

81



MAP0654



Petcocks Featured Below are Heavy Duty Marine Rated, Reasonably Priced, with a Compact Leakproof Design. 1/4" Pipe Thread at Tank End. 5/16" Barb at Hose End. (Stock Tanks Require Pipe Tape)

1AP0650 1AP0652 1AP0654	90° Petcock with Barb End 180° Petcock with Barb End (Not Shown) 180° Petcock 2 Position (std & Res) with Barb End	

Nice Reproduction of Stock looking "No Leak" Metal Replacement MAP Petcocks. (no plastic handles on these!). Fits Most Triumph and Norton along wihth a few BSA Models that have 1/4" BSP threads (both ends). Compabable with most ethanol fuels. Includes lock nut. PETCOCK Stock Looking, All Metal Won't Leak (Reserve) MAP0646 MAP0645 PETCOCK Stock Looking, All Metal Won't Leak (Std) 68-8024 Horizontal Push-Pull PETCOCK for A65 (3/8" BSP Thread)

S7550 HD Style PETCOCK, Male Threads (Not Shown) S7550/F HD Style PETCOCK, Female Threads (Not Shown) Nut (1/4" BSP) Most Triumph, BSA, Norton For 5/16" Line 82-3337 MAP0667/A Nut (3/16" BSP) Some Early BSA for 1/4" Line 82-3334 180 Degree SPIGOT Stock Type for 5/16" Line 82-3335 90 Degree SPIGOT Stock Type for 5/16" Line 82-3353 120 Degree SPIGOT Stock Type for 5/16" Line MAP0669/A SPIGOT (3/16" BSP) for MAP0667/.A Nut (for 1/4" line) MAP0668 FERRULE Crimp Type (As Oe) For 5/16" Line MAP0670 REDUCER adapt 1/4"BSP Triumph Petcock to 3/8" BSP BSA Tank

70-7351 Petcock/Tach Housing Washer (Bonded O'Ring Inside Steel). ea.

CUSTOM 16" RIM and SPOKE KITS





MAP7200 TRIUMPH 16" CONVERSION Kit. Easily Convert ANY Triumph "Stepped Spool" Rear Hub (Including Trident/Rocket III) to the Popular Massive 3¹/₂" Wide 16" Harley Dropped Center Rim. 40 Beautifully Chromed Spokes and Nipples with the Exclusive **THAP Cycle** design that Incorporates the BEST Possible Spoke Angle for Minimal Exposre to Spoke Flex and Breakage while ELIMINATING "Nipple Threading" common to other brands of Conversion Spokes.

MAP7210 TRI-BSA 16" CONVERSION Kit. Easily Converts Triumph/BSA CONICAL Rear Hub Models (Including Trident/ Rocket III) to the GREAT Custom LOOKS of the Popular Massive 31/2" Wide 16" Harley Dropped Center Rim. 40 Beautifully Chromed Spokes and Nipples with a Great Design by **TIRP Cycle** for EASY Installation.with No Nipple "Threading"! Requires Slight Spoke Hole Enlargement for our Stronger Larger Diameter Spoke. Prevents Common Spoke Brakeage.

MAP7500

16" DROP-CENTER Harley Davidson Style 40-Hole 3¹/₂" Wide. (Note: Use with metal side stem tube)



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Tech Papers T.R.P. Cycle Enterprises, Inc.

INTRODUCTION

This technical paper is presented to give interested riders, mechanics and tuners some insight into the theory and practice of cylinder head flow-testing and the design of intake/exhaust systems for maximum performance. The author, Jess O'Brien of O'Brien Design Engineering (formerly O'Brien Flowmetrics) has been involved in the motorcycle performance field for most of his working life. Jess, one of the founders of the Battle of the Twins road racing series, which since its inception has caused the popularity of the various vintage and classic events being held around the country, has teamed up with M.A.P. Cycle Enterprises, Inc. to provide valuable information for increasing your engine performance.

In the late seventies Jess formed O'Brien Flowmetrics specializing in cylinder head development for "BIG TWIN" motorcycles. Much successful work was done with the popular Triumph, Norton, Ducati, Harley XR 1000 and others. Jess was also involved with head development work on the Harley XR 750 dirt track engine.

Since most of the classic twins and singles were designed long before the science of precision flow testing was developed, they almost universally suffer from less than optimum port and combustion chamber design. Large horsepower gains are often possible through careful head modifications on these engines. O'Brien Design Engineering offers complete cylinder head services for twins and singles, whether they be vintage, classic or modern. Work ranging from simple valve jobs to complete porting is available. This work is custom engineered for the mild street to "all out" race engines

THEORY & PRACTICE OF IMPROVING AIR FLOW THROUGH CYLINDER HEAD MODIFICATIONS by Jess O'Brien

The high power output of the most modern 4-stroke engines is principally due to their ability to flow huge quantities of air-fuel mix into their combustion chambers and burn that mixture very quickly and efficiently. Few, if any, older engines have near this capability. However, thru the use of modern flow technology older engines can be modified for significantly increased air flow. This can increase the potential horsepower output substantially. Potential is the key word here. The original designer provided compression ratios, cams, carburetors, port and valve sizes suited for the engine's intended use, from mild transportation to sporting use, even full race in some cases. If the designer was somehow able to match the cylinder head's intake system to the demands of the engine configuration maximum power would have been developed. This was almost never the case because the flow technology did not exist at the time.

In almost all cases where engines are modified for increased power, increased air flow must be provided or the desired horsepower increases will not be obtained. Although it is possible to make some port modifications without the use of flow testing equipment, success is unlikely or simply a matter of luck. Often more harm than good is done.

The mechanical limitations of pistons, rods, crankshafts and crankcases must be up to the job of handling the increased power. Power gained through modifications such as the installation of appropriate camshafts, increased compression pistons, and free flow exhaust can make your motorcycle the optimum performance machine. All these things need to be carefully considered before undertaking extensive engine modifications.

VOLUMETRIC EFFICIENCY

Volumetric efficiency (VE) is the measure of an engine's ability to intake fuel/air mix. The more charge that can be packed into the combustion chamber during the intake stroke the more horsepower (HP) the engine will put out, assuming that other factors are not limiting HP. VE is stated as a percentage. If an engine was able to completely fill its cylinders during every intake cycle it would be operating at 100% volumetric efficiency. By utilizing the ram effect of the moving column of air VE of over 100% is common. It is considered that the potential maximum VE of a 4-stroke, unsupercharged engine is 130%.

VE is estimated using a simple formula:

To use this formula we must know several things:

Horsepower - in most cases you will have to use the mfg.'s rating. RPM - use the RPM at which the stated HP is developed.

CID - since most motorcycle engines are measured in cc's (cubic centimeters) we will have to convert. Multiply the cc's by .061. VE calculations can demonstrate the need for increased air flow. To illustrate let's compare VE of two popular classic twins, the 650 Bonneville and the later 750 model. Triumph rated the 650 at 50 HP @ 6500 RPM. The CID is 39.6 ($649 \times .061 = 39.6$). Let's plug these figures into the formula:

5600 x [50 divided by (6500 x 39.6)] x 100 = 108.8% VE.

Now let's see how VE was affected when the displacement was increased. Triumph enlarged the engine without making any real changes to the cylinder head's flow capability. The result was about 52 HP @ 7000 RPM. The almost 100cc increase in displacement resulted in a relatively small increase in peak power. Our VE formula can illustrate the probable cause. The CID is 45.57 (747 x .061 = 45.57). Let's plug these figures into the formula:

5600 x [52 divided by (7000 x 45.57)] x 100 = 91.29% VE.

The reduction in VE in this case would seem to indicate that the additional displacement required more air flow. This would usually be the case. The displacement increase did improve midrange torque without a large HP increase. Probably, this was Triumph's intent.

ENGINE MODIFICATIONS FOR INCREASED POWER

From the previous discussion it appears that improving volumetric efficiency is the name of the game for increasing performance. True, but not the whole ballgame by a long shot. Again, let's use the Triumph Bonneville as an example. Suppose we have a stock 650 and want more power. First, some decisions. Do we want the bike to be streetable? If so, it should start easily, idle fairly well, be manageable in traffic, accelerate well and have a better top end performance in the bargain. Or is the machine to be used exclusively for racing where we can sacrifice some of these things for maximum speed. It's not surprising that many riders choose maximum performance figuring that they can live with some poor low speed performance. They usually change their minds quickly, often finding that the motorcycle actually feels slower because of poor low and mid range power. Suppose we make the right decision and decide to retain streetability. The first thing to consider would be making the engine larger. A good move

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because it will improve mid range torque. Bolt-on kits are available to convert the 650 to a 750 or even larger. Now the machine will feel more powerful and pull better but we have probably not gained much top end. What's next? Higher compression ratios will make more power but there's a problem. Pump fuel available now will not allow extremely high ratios in older engines. Detonation and destructive overheating will result. The big bore kit provides the highest ratio that the manufacturer felt could be run on unleaded high test. Fuel additives such as M.A.P. Cycles "BIG-BOOST" are available and extremely efficient but are sometimes inconvenient, especially when one runs out. So let's leave this option for now. Cams - A good street grind will help. It will keep the valves open longer and may provide more lift allowing a longer period for fuel/air mix to enter the engine. Intake tract modifications - This will provide our largest increase in peak power. Let's examine this modification in detail.

CYLINDER HEAD MODIFICATIONS

Looking back again to our previous discussion on volumetric efficiency, we found that the stock Triumph cylinder head was unable to supply enough air to obtain maximum performance from the 750 engine. It would be nice to come up with a formula that would predict exactly how much horsepower increase we could expect from each modification. This is not possible because there are so many variables involved. We can, however, pretty closely calculate the potential horsepower that can be obtained with a given amount of air flow. By test, a stock Triumph Bonneville head will flow about 61 CFM (cubic feet per minute) of air thru each of its intake ports. These tests were conducted at 10-inches of water (a term that relates to the test instrument on the flow bench). How much flow do we need in order for our modified 750 to reach its maximum potential HP? Thru long experience, several formulas have been developed to predict not only the amount of air flow needed, but also what the actual HP potential will be and at what RPM it will be developed.

Air flow necessary for a given CID = Displacement of 1 cyl. x 2.15 x 1/2 max. safe RPM divided by 1728.

Now let's plug in the figures from our 750 (45 CID) Bonneville. For RPM we'll use the factory rating of 7000. Thus $22.5 \times 2.15 \times 3500$ divided by 1728 = 98 CFM. Note: this formula is based on 12" of water which converts to 89.9 CFM at 10" (see formula page-Appendix A).

Now that we've calculated that we need 89.9 CFM for maximum potential HP we can use another formula to calculate what the HP might be:

For a fully modified street motorcycle. Potential HP per cylinder = CFM x .35. Thus $89.9 \times .35 = 31.4 \times 2 \text{ cyl.} = 62.8 \text{ potential HP}.$

For full race engine the factor is changed from .35 to .4 thus with the same air flow we have $89.9 \times .4 = 35.96$ HP per cyl. $\times 2 = 71.92$ potential HP. These formulas have proven to be remarkably accurate over time.

The illustration in Figure #1 (Appendix A) represents a typical intake tract. This consists of the carburetor, carburetor adapter, intake port, valve and seat. Extensive flow research has established certain guidelines for efficient intake tract design:

1. Carburetor size should be 86% of intake valve diameter.

2. Flow losses arise from changes in direction and decreases in velocity (port bends and expansions).

- 3. Material should be removed primarily from the outside of port bends, not the inside. Flow will increase due to the increase in the radius of the bend.
- 4. Port length and surface finish are not important to flow.
- 5. The greatest flow loss results from poor design of the port floor (the area opposite the valve guide). This controls air flow from about .250" to maximum lift. Very small changes in the angle or location of the port floor can result in flow losses or gains of as much as 10%. It is obvious that without a flow bench such small deviations are virtually impossible to detect.
- 6. The second greatest flow loss in the intake port is due to the expansion of the air out from around the valve. This makes the area from 1/2" below the valve to 1/2" above the valve the most critical part of the port. Just below the valve seat the port diameter should decrease to about .85 of the valve diameter.

7. The valve seat shape has a substantial effect on flow from .050 to .250" lift.

Let's expand on these points:

VALVE SIZES - Intake valve sizes in hemi or semi-hemi 2-valve combustion chambers are limited by the bore size or the largest diameter of the chamber itself. As a rule the larger the valve the greater the flow. This does not prove true, however, if the valve is so large that it is masked by the cylinder wall or the edge of the chamber. In addition, the largest valves may not flow more because of port restrictions that cannot be corrected without extensive port redesign involving welding and remachining.

Before going on let's talk a bit about RPM. Note that in previous calculations we used the factory's figure. This is the RPM at which the stock peak HP was developed. Shouldn't our modified engine be able to develop its peak HP at a higher RPM? Certainly, modifications like racing cams and improved air flow will usually raise the power peak. Again we have a time-tested formula that can predict the RPM at which peak power will be developed.

RPM =

2000 (CID per Cyl. x CFM) (at 10" of water)

Let's apply this using our previously calculated Triumph flow figures.

(2000 divided by 22.5 CID) x 89.9 CFM = 7991 RPM.

In other words the HP of a fully modified street Triumph would be about 62-63 HP at nearly 8000 RPM. The question is can we safely run this engine 8000 RPM? Maximum safe RPM is determined by mechanical considerations, namely the valve gear, the piston speed (determined by the stroke) and the strength of the bottom end components like the rods, crankshaft and crankcases. Obviously no mathematical formula could take all these things into account. It's been proven down thru the years that for reliability engines should not be operated for any length of time at piston speeds exceeding 3700 ft. per min. To calculate safe RPM use this formula:

SAFE RPM = 22,200 divided by stroke in inches.

As with most older designs our Triumph has a longish stroke of 82 mm. Converting this to inches, $.03937 \times 82 = 3.228$ in.

Thus SAFE RPM would be 22,200 divided by 3.228 = 6877 RPM.

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Note that this is over 1000 rpm less than our predicted peak HP RPM. Does this defeat us? No, it only means that we should not operate this engine for long periods at over 7000 RPM without expecting reliability problems. If we can get the engine to rev that high 7500 to 8000 RPM shift points during competition events would be reasonable. Just remember, constantly exceeding safe RPM limits without necessary modifications will almost guarantee a blowup!

TUNED INTAKE LENGTH - It is possible to improve volumetric efficiency by harnessing the natural kinetic energy and the resonant pulses that occur during the intake cycle. When the intake valve closes, a pressure pulse bounces back out the intake tract, and then in again toward the valve. By making the intake tract the proper length, the returning pulse can be timed to arrive at top dead center of the next intake cycle, forcing extra air in and keeping exhaust gases out of the intake port. In order to utilize this pulse, the intake tract, from the carburetor bell mouth to the inlet valve, must be the correct length. See fig.#2 (Appendix A). There are actually several pulses that can be used corresponding to the 2nd, 3rd and 4th time the pulse is reflected. These pulses are called harmonics. The 2nd harmonic being the strongest. There is a simple formula for calculating the length using the second harmonic.

Tuned Length (in inches) is 132,000 divided by RPM

For instance, if our usable peak RPM was 7000: 132,000 divided by 7000 - 18.8 inches. This is a very long tract and difficult to accommodate on a motorcycle. The use of the 3rd harmonic will result in a slightly shorter tract:

97,000 divided by 7000 = 13.8 inches.

Still a rather long distance. What real benefits can we derive from intake tuning? The real joker in this whole thing is that although we may derive some peak power from increasing the ram effect, it will only work during a relatively narrow RPM band (a little over 1000 RPM usually). It also has the effect of reducing engine power outside of the narrow RPM band. Is it worth it? For an all-out road racer it may be. For a modified street bike we will probably lose more than we gain. A close look at the latest factory road racers would indicate that this theory has been all but abandoned and carburetors are now being placed as close to the head as possible with relatively short inlet bells. Perhaps the mid range losses were found to be greater than the top end gain.

VALVE LIFT - Air flow thru the engine is controlled by valve lift. The further the valve lifts the greater the flow, up to a point. Some racing cams open valves as high as .30 x valve diameter (dia). In actual practice flow seldom increases much at over .25 valve dia. lift. Cam designers realize this, but lift is often "overshot" in order to provide faster lifts at low valve openings. Remember, we need the highest possible flow over the entire range of lift. On the flow bench flow is measured at .050 increments over the full range of lift. Efforts are always made to maximize flow at low lifts as well as high.

POTENTIAL PROBLEMS WITH VERY LARGE VALVES AND HIGH LIFTS - During the overlap period when both the intake and exhaust valves are open large valves with high lifts may tangle (touch together). If this is the case the only cure is to either reduce valve size and/or lift or to sink the valves deeper into the head by grinding the seats lower. Sinking the intake valve will have a negative effect on flow, sometimes very much so, and should be avoided. The exhaust valve can be sunk somewhat without ill effect. Another problem that rears its ugly head is piston-valve interference. It is advisable to maintain at least .060" between the valves and the piston at overlap top dead center. In order to do this the valve cutaways in the piston may have to be cut deeper. These deep cutaways reduce the compression ratio and may have a masking effect on the intake valves. Taking all this into account you should keep valve sizes and cam lifts within reasonable limits.

IDEAL PORT SHAPES - For maximum flow the ideal port would be as straight as possible, tapering down from carburetor diameter to .85 of the carburetor bore just below the valve seat. There would be no sudden change of diameter and the radius of all curves should be perfectly blended and as large as possible. In real life this ideal is seldom attainable.

MODIFYING PORT SHAPES - Fig. #3 (Appendix A) represents a typical full hemi combustion chamber design. Valves are inclined at a 90 degree included angle. This port looks good at first glance. There are serious problems, however. One is the angle at which the air flow approaches the valve. Air flow does not hit the valve seat at a right angle. The port is too low causing turbulence around the valve seat that reduces flow. The low port also creates another problem - excessive charge loss. Charge loss occurs during the overlap periods when both the intake and exhaust valves are open. Part of the fresh charge coming in tends to be lost right out the exhaust port particularly at lower engine speeds. This situation is aggravated by a racing cam that opens the intake earlier and closes the exhaust later. Some charge loss is unavoidable, but can be minimized by careful port modification. Fig. #4 (Appendix A) shows a hemi port modified to improve both the flow around the valve and to redirect the charge downward away from the exhaust port to minimize charge loss. Fig. #5 (Appendix A) indicates a more extensive modification for full race applications where the whole port is raised by adding metal to the floor and remachining the roof of the port to provide even better flow and less charge loss. Fig. #6 (Appendix A) illustrates the semi-hemi combustion chamber. This design is a result of the manufacturer's efforts to improve flow, reduce charge loss, and provide a more compact combustion chamber that improves flame travel and shortens the time required to burn the fuel/air mix during the power stroke. The valve angle is narrowed from 90 degrees to 60 degrees. The valves are more upright. This nicely curved port shape above the valve allows the air flow to approach the valve at right angles all the way around. The semi-hemi usually requires less modification for maximum flow and is probably the best 2-valve combustion chamber design. It allows maximum valve sizes with good flow as well as higher compression ratios due to more efficient combustion.

VALVE GUIDES - The practice of cutting valve guides off flush with the port is a bad one. The valve depends on the guide to return it to the seat in perfect alignment. Many guides are too short to begin with. Cutting them off can allow the valve to wander on the seat and not seal well, as well as causing rapid wear to the guide bore. Even valve guide bosses should not be completely ground away. This practice reduces the length of the guide's bearing surface in the head and can cause the guide to eventually become loose. A well-designed or modified port opens up slightly in the guide area to prevent reduction of flow. There is no harm in streamlining the valve guide boss slightly but this usually shows little improvement on the flow bench.

VALVE SHAPES - The contour of the top of either valve has little effect on flow. The shape of the back side can have an effect. Most modern valves incorporate the rounded, convex shape that seems to work best on both the intake and exhaust. The older tulip and flat back shapes should be avoided. Some flow testers have experimented extensively with shapes at the back of intake valves. Various angles have been tried with some success on certain port configurations however, and without a flow bench it is futile. VALVE SEATS - The intake port area just beneath the valve seat and the seat angles are critical. Also that the port narrows just

behind the seat to 85% of the valve diameter. This is important to

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good flow around the valve. We find that many heads that have been ported are opened up to the full valve diameter at this point. If this has been done it must be repaired before maximum flow can be achieved. Repair involves either installing a larger valve or, if this is not possible, the seat must be removed, the area welded up, remachined, and a new seat installed. Note the valve seat angles on Fig. #7(Appendix A). These include a 30-degree top cut, a 45degree seat and a 60-degree bottom cut. Note that a further cut of 70 degrees is also indicated. This was done in this case to better blend the seat into the port. This extra cut is not always necessary or even desirable. It's one of those small things that may or may not show improvement and only the flow bench can decide. Sometimes the 30 and 60 degree angles can be slightly altered to improve flow. Again, this is one of the things that must be determined thru experiments on the flow bench. It will vary according to combustion chamber shape.

VALVE SEAT WIDTHS - For maximum flow a good 3-angle valve job is required with the 45-degree intake seat around .040" wide. With the seat located at the valve's outside diameter. The 45-degree exhaust valve seat should be wider than the intake in order to promote good heat transfer, about .080" and can be moved in slightly from the edge of the valve for longer life.

EXHAUST PORTS - The exhaust port operates under different circumstances than the intake. There is some controversy over what percentage of intake flow the exhaust port should attain. WE find that around 90% works well on most motorcycle engines. Some ports will flow 90% with little or no modification. Others may require some work. Modifications usually involve some opening up of the port from just in front of the guide out to the exhaust port. The general smoothing of the surfaces is beneficial. There is also some merit to a high polish on exhaust ports to inhibit the formation of carbon. Do not attempt to blend the exhaust stub into the pipe diameter. As a matter of fact, a decided step at this point is often desirable. This step helps to prevent a reflected exhaust wave from refilling the cylinder with spent gases before the exhaust valve closes (referred to as anti-reversion).

POLISHING PORTS - A high polish on intake ports is not desirable. This fact is almost universally accepted by experienced head designers. The exhaust port may be polished to reduce carbon build-up. What we are after on the intake port is a smooth finish without hills and valleys and with well-blended transitions between diameter changes. This is not easy without considerable experience. When grinding ports with rotary files a wavy finish is easily produced. If the port is then highly polished these waves often remain. But now they are not as easily seen because of the shine. This can ruin flow!

FOUR VALVE HEADS - The four-valve head is now the most popular system in use on high performance overhead cam motorcycle engines. There are good reasons for this. Although two large valves can be made to flow as much air as four smaller valves there are other factors that make this design superior. One, of course, is lighter valves that allow higher RPM without float, along with lighter valve springs. Probably the most important advantage is the combustion chamber shape. Called the pent-roof design this chamber is very compact. Most often the spark plug is located in the center. This provides for extremely short flame travel. The smaller chamber allows high compression ratios with flat top pistons. This eliminates the high-domed piston that can mask valves during overlap and slow the burning of the charge creating detonation. These features combined create the most significant advantage of all: extremely short burn time. The faster and more completely the charge is burned, the more horsepower is produced. Since most 4-valve heads were designed using ultramodern flow equipment and with maximum performance in mind there is less potential for improved air flow thru modifications. Any port work must be done very skillfully lest flow be reduced. Work on 4-valve ports is usually limited to matching the carb adapters and the port, and performing accurate 3-angle valve jobs. A flow bench is usually a must if any attempt is to be made to further improve flow.

CHOOSING CARBURETOR SIZES - Extensive testing has proven that a carburetor with a bore size that is 86% of the intake valve size will produce the maximum flow necessary. For instance, an engine with 1 1/2" (38mm) inlet valves will require a carburetor with a bore of 1.29" (32mm). Increasing the carburetor size without increasing the valve size will result in little, if any, increased flow. In spite of this, we often find much larger than necessary carburetors even on factory prepared race bikes. Overcarbureting an engine often causes tuning problems that are difficult to cure. Low and/or mid range throttle response may be poor, with hesitations and flat spots. An experienced tuner with access to lots of jets and needles can often cure these problems, but why bother for little potential gain, particularly on a modified street bike where rideability is a prime consideration.

CARBURETOR TYPES - Currently there are quite a variety of carburetors available. Aftermarket distributors offer bolt-on kits with jetting already installed for a particular application. Our experience with these kits has been generally good. Most are jetted very close and require only small changes, if any. Of the brands available the Japanese Mikuni is probably the most popular. These carburetors are fairly easy to tune, can be had in a variety of sizes, and a wide range of tuning parts are available. Modern carburetors can greatly improve the rideability of older bikes and are a good investment, especially when other modifications are being considered.

AIR FILTERS - For all but pure road racing air filters should always be used. Fig. #8 (Appendix A)shows the popular "K&N" type installed on the carburetor. As a rule an air filter will not restrict flow if it is large enough. There is one important point to remember, however. The distance between the back of the air filter and the carburetor mouth should be at least 2 inches. Any less can restrict flow.

GEARING

From the beginning, we have stressed R.P.M. If you don't know range of R.P.M. when your engine develops its maximum efficiency, you're lost. This information will enable you to stay ahead of the majority of riders who over "rev" and under gear or over gear their bikes. In every race I've been to, someone comes up and asks, "What gearing should I run?" If you know and they don't, it's called "I gotcha."

 $\begin{array}{l} \text{MPH} = \text{Miles Per Hour} \\ \text{GR} = \text{Gear Ratio} \\ \text{RPM} = \text{Engine Speed} \\ \text{Mile} = 5,280 \text{ ft.} \\ \text{K} = 60 \text{ divided by Revolutions of tire per mile} \end{array}$

To find: MPH = (RPM X K) divided by GR To find: GR = (K X RPM) divided by MPH To find: RPM = (MPH X GR) divided by K

Example: For a 4.00 X 18" tire, the average revolutions/mile is 766. To check, put a chalk mark on the tire and then roll it along the ground for one exact revolution.

If it does come out to be 6' 57/64", convert to 6.89' divide it into 5,280. [5,280 divided by 6.89 = 766]

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Therefore:	
K = .078 [i.e. 60 divided by 766]	FORMULAS.
Next, find GR at trans sprocket. Triumph has 2.0. (ie. 58 T chainwheel divided by 29 T eng sprocket)	100% CFM at 12" = CID X 2.15 X RPM divided by 1728 100% CFM at 10" = 100% CFM at 12" divided by 1.09
Then, GR at the rear wheel. For instance, a rear sprocket of 47 T with a trans sprocket of 20 T.	Potential H.P. Semi-Race = .35 X CFM (at 10") Potential H.P. Full-Race = .40 X CFM (at 10")
Therefore: Your stock overall gear ratio is 4.70 [ie.((47 divided by 20) X 2.0)]	Pulse 2nd Harmonic = 132,000 divided by RPM Pulse 3rd Harmonic = 97,000 divided by RPM Pulse 4th Harmonic = 74,000 divided by RPM
Now, on your first test, you turn 8,000 RPM. Then $MPH = 132.8$ [ie.((8,000 X .078) divided by 4.70)]	Safe Peak Power RPM = 22,200 divided by stroke (in inches)
 [ie.((8,000 X .078) divided by 4.70)] You like 132.8 MPH, but you're over the 7,000 rpm limit. Plugging in the RPM and MPH you want. You Find GR must now equal 4.11 [ie. ((.078 X 7000) divided by 132.8)] (41 rear X 2.0) divided by 20 transmission = 4.10 If you're locked in on not being able to change rear wheel sprocket, you could change transmission sprocket. Ratio averages about 2 to 1 (1 on front averages 2 on rear). (47 rear X 2.0) divided by 23 transmission = 4.09 is as close as you can come. Please phone or write for more information and/or prices regarding our new services: Pro-Port, Super-Port, and Econo-Port; hardened valve seat replacement; and 3-angle/blend valve jobs. 	Maximum Peak Power RPM = 27,600 divided by stroke (in inches) CC to CID multiply CC's by .061 MM to INCHES multiply MM's by .03937 Cubic Centimeters per/cylinder = .7854 X Bore ² X Stroke (measured in Cubic Centimeters) Cubic Inch per/cylinder = .7854 X Bore ² X Stroke (measured in Cubic Inch per/cylinder = .7854 X Bore ² X Stroke (measured in Cubic Inches) Compression Ratio = (VI + V2) divided by VI Where: VI = Combustion Chamber Volume* V2 = Swept Volume (BORE X BORE) X STROKE X .7854 *Find V1 either by calculation or the Burette method By Calculation: V1 = volume of cumbustion chamber (by Burette) + volume of head gasket (by formula) - volume of piston dome (by burette) Note: if your piston is dished them <i>add</i> volume of dish (by burettt). By Burette: See Fig. #10 (Appendix A) Turn engine over until piston is at top dead center. Place a small amount of grease between piston and cylinder wall to use as a seal. Install assembled head and head gasket onto cylinder. Torque head to specis. (installation of rocker boxes not required). Tilt engine so that the spark plug hole is exactly vertical. Using mineral spirits in your burette (make note of amount), fill combustion chamber until liquid comes up to the second thread from the
	bottom of the spark plug hole. If you have used 40cc's then V1 = 40.






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CYLINDER AND CRANKSHAFT

Plate Ref. Description $\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 112. \\ 13. \\ 14. \\ 15. \\ 16. \\ 17. \\ 18. \\ 19. \\ 20. \\ 122. \\ 23. \\ 24. \\ 25. \\ 27. \\ 28. \\ 29. \\ 30. \\ 31. \\ 23. \\ 34. \\ 34. \\ 34. \\ 35. \\ 34. \\ 34. \\ 34. \\ 35. \\ 34. \\ 34. \\ 34. \\ 35. \\ 34. \\$



GEAR CLUSTER AND TIMING COVERS

Plate Ref Description

- 1. 2. 3.

- 10

- Description Felt washer final drive sprocket Nu final drive sprocket (1/q⁺ × 1) 1 sckwasher final drive sprocket 1 mal drive sprocket (1/q⁺ × 1) 1 sckwasher final drive sprocket 1 mal drive sprocket (1/q⁺ × 1) 1 sckwasher final drive sprocket 1 mal drive sprocket (1/q⁺ × 1) 1 sckwasher final drive sprocket 1 mal drive sprocket (1/q⁺ × 1) Gerchange quadrant River-quadram plunger "O⁺ ring-oil feed Breather pay unner timing cover Circlep- crankthoft of teal 1 scal- scale state teads 1 scale scale scale state teads 1 scale scale scale state teads 1 scale scale scale scale (1 scale (1

- 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 33. 33. 33. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44.

1.21

GEAR CLUSTER AND TIMING COVERS

 Plan
 Description

 Ref
 Description

 44.
 Plant Production breaker

 70
 Washer auto-advance unit

 48.
 Delta relationation or unit

 49.
 Delta relationation or unit

 49.
 Contact breaker cover

 40.
 Contact breaker cover

 51.
 Lock washer cover cover (2 = x + 1)

 52.
 Screw contact breaker cover

 53.
 Grants breaker cover

 54.
 Screw contact breaker cover

 55.
 Bolt grant/sampe liver

 56.
 Nat & Kckhart crank conter

 57.
 Washer
 Kockhart crank conter

 58.
 Ortex dorter thing cover (2 = x + 2)

 59.
 Nat & Kckhart crank conter

 50.
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 50.
 Screw outer thing cover (1 = tx + 2)

 51.
 Of scal
 Acksart relation

 51.
 Screw outer thing cover (1 = tx + 2)

 52.
 Of scal
 Acksart relation

 53.
 Bolt becksart pedial
 (2 dimitter)

 54.
 <t Plate Ref Description







| 1 | Piston ring (taper) * |
|----|----------------------------|
| 2 | Connecting rod (left-hand) |
| 3 | Connecting rod bolt |
| 4 | Crankshaft key ' |
| 5 | Shim (.003'') |
| 5 | Shim (.005'') |
| 5 | Shim (.010'') |
| 6 | Oil seal |
| 7 | Bearing |
| 8 | Retaining cup |
| 9 | Oil tube plug |
| 10 | Oil tube |
| 11 | Fly wheel |
| 12 | Washer |
| 13 | Bolt |
| 14 | Nut |
| 15 | Crankshaft |
| 16 | Dowel |
| 17 | Thrust washer |
| 18 | Pinion |
| 19 | Crankshaft nut |
| 20 | Lockwasher |
| | |

Washer Pinion key Pinion Bush (standard) Bush (-.010'') Bush (-.020'') Bearing shell (standard) Bearing shell (-.010") Bearing shell (-.020") Bearing shell (-.030") Connecting rod (right-hand) Small-end bush Fly wheel bolt Circlip Gudgeon pin Piston complete (9 : 1) * Piston complete (10.5 : 1) * Piston complete (10.5 : 1) * Piston ring (scraper) Piston ring (top)

21 22







- 1 Valve guide, exhaust 950 cc models 2 off 1 Valve guide, exhaust 750 cc models 2 off 2 Valve guide, inlet 850 cc models 2 off 3 Valve guide, inlet 850 cc models 2 off 4 Gricip for valve guide (850 cc models only) 4 off 4 Exhaust valve 2 off 5 Valve spring seat 4 off 7 Valve spring sheat inualstor 4 off 8 Valve string, inner 4 off 9 Valve spring, inner 4 off 10 Valve spring, inner 4 off 11 Valve coller 4 off 12 Split collet (pair) 4 off 13 Inlet pustod 2 off 14 Inlet pustod 2 off 5 Tahoust Jeff tood off 15 Tahoust Jeff tood off 16 Tappet right hand) supplied in pairs only

- 17 Tappet locking plate 2 off 18 Tappet locking plate screw 4 off 19 Inlet rocker arm (left hand) 20 Inlet rocker arm (left hand) 21 Exhaust rocker arm (left hand) 22 Exhaust rocker arm (left hand) 23 Exhaust rocker arm (left hand) 24 Rocker adjuster (left 25 Rocker spindle 4 off 26 Rocker spindle 4 off 28 Rocker spindle 4 off 29 Rocker spindle i off 30 Rocker spindle i och glate 4 off 31 Rocker spindle i och glate 4 off 32 Rocker spindle i och glate 4 off 33 Copper weather 8 off * Not fitted to inlet valves



Crankcase assembled (not supplied separately)
 Crankcase dowe! 2 off
 Crankcase dowe! 2 off
 Crankcase dowe! 2 off
 Main bearing 2 off
 Main bearing 2 off
 Main bearing 2 off
 Main bearing 2 off
 Okin bear stud a washer 2 off
 Okin bear stud a washer 6 off
 Okin bear stud a washer 6 off
 Okin bear stud a washer 2 off
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| 24 Crankcase bolt nut |
|--|
| 25 Crankcase stud, top front |
| 26 Crankcase stud washer |
| 27 Crankcase stud nut |
| 28 Crankcase stud top, rear |
| 29 Crankcase stud washer |
| 30 Crankcase stud nut |
| 31 Crankcase screw 2 off |
| 32 Magnetic sump plug |
| 33 Sump plug washer |
| 34 Tachometer drive gear |
| 35 Screw 2 off |
| 36 'O' ring seel |
| 37 Tachometer drive housing |
| 38 Gasket for tachometer drive housing |
| 39 Breather body |
| 40 Breather cap |
| 41 Breather joint gasket |
| 2 Separator block |
| 43 Retainer disc 2 off |
| 44 Bolt 2 off |
| 45 'O' ring seel |
| 46 Tab washer 2 off |



- 1 2 3 4 5 6

Cylinder berrel - 350 cc models
 Cylinder berrel - 750 cc models
 Cylinder head gaskt (syeletted) - 850 cc models
 Cylinder head - 850 cc models
 Cylinder head - 750 cc



- Connecting rod with cap 2 off Connecting rod soli 4 off Connecting rod soli focking nut 4 off Ganthaft complete 950 cc models Canthaft complete 950 cc models Cant cheek, drive side 750 cc models only Cant cheek, drive side 750 cc models only Fywheel 750 cc models only Powel Nut retaining slate 2 off 123456789

- 10 11 12 13

- 9 Flywheel 750 cc models only 10 Dowel 11 Nut retaining plate 2 off 13 Cranktheft stud 4 off 13 Cranktheft stud 2 off 14 Cranktheft stud 2 off 15 Cranktheft cilway scraw 17 Cranktheft philon Rey 18 Cranktheft philon Rey 19 Cranktheft philon Backplete 20 Oil pump worm 21 Carnsheft thrust westers 2 off 23 Intermediate gaar complete with bush and sprocket



- Kickstarter return spring Gearchange stop plate
- Gearchange stop plate bolt 2 off Gearchange stop plate washer 2 off
- 9 10
- Gearchange return spring Gearchange lever

- 11 Gearchange lever 12 Gearchange lever bolt 13 Gearchange lever nut Costobange lever wast
- 14 Gearchange lever washer 15 Gearchange lever rubber 16 Dowel 2 off

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21

23

12

19

- 10 General Ange Indicator 18 Gearchange Indicator bolt 19 Gearchange Indicator bolt washer

33

16

17

8 17

10

13 15 11

18

25 Kickstarter crank only 26 Kickstarter crank only 27 Kickstarter pinch bolt 28 Kickstarter rubber 29 Domed nut 30 Plain washer 31 Pin 32 Spring washer 33 Clutch operating lever 34 Clutch operating lever body 35 Clutch operating lever body lockring 36 Clutch operating roller 37 Clutch operating roller So Clutch operating roller 37 Clutch operating roller sleeve 38 Clutch operating roller screw 39 Clutch operating roller screw nut 40 'O' ring for pawl carrier

40 41 42

Ś 34

25



- Selector fork spindle Selector fork 2 off Ratchet plate assembly 23456789 Ratchet spring Knuckle pin roller Ratchet spindle 'O' ring Quadrant Gearchange pawl 9 Gearchange pawl circlip 10 Pawl carrier assembly 11 Pawi Pirot pin 12 Spring washer 13 Camplate 14 Cam plunger 15 Plunger spring 16 Plunger spring bolt

- 27 Manushari Dearing 28 Gearbox inner cover stud nut 29 Gasket, inner cover to gearbox shell 30 Gasket, inner cover to outer cover 31 Clutch pushrod
- 32 Clutch operating ball
- Gearbox shell with bushes and studs
- Drain plug
- 3
- Drain plug Drain plug washer Bush, quadrant and cam spindle 2 off Stud for inner case 2 off Stud for inner case 5 off
- š
- 8
- Dowel 2 off Sleeve gear bearing Sleeve gear bearing oil seal Layshaft bearing 9
- 10
- 11 Mainshaft
- 12 Mainshaft 1st gear 13 Mainshaft 2nd gear
- 14 Mainshaft 2nd gear bush 15 Mainshaft 3rd gear
- 16 Sleeve gear complete with bushes 17 Sleeve gear bush 2 off
- 18 Layshaft 19 Layshaft 1st gear with bush
- 20 Layshaft 1st gear bush 21 Layshaft 2nd gear
- 22 Layshaft 3rd gear

23 Layshaft 3rd gear bush 24 Layshaft 4th gear 25 'O' ring 2 off 26 Spindle bolt 2 off

17 Kickstarter shaft with bush

20 Kickstarter pawl 21 Kickstarter pawl pin

22 Kickstarter pawi pin 22 Kickstarter pawi plunger 23 Kickstarter pawi spring 24 Gearbox inner cover 25 Gearchange inner bush 26 Mainshaft nut 27 Mainshaft bearing

18 Kickstarter shaft bush 19 Inner cover bush for kickstarter

- 20 Spindle bolt 2 off 27 Spindle bolt washer 2 off 28 Gearbox sprocket (19 24 teeth sizes 29 Gearbox sprocket spacer 30 Gearbox sprocket nut

- 31 Sprocket nut lockwasher 32 Gearbox sprocket nut lockscrew
- 33 Gearbox top bolt 34 Gearbox top bolt spacer
- 35 Gear top bolt nut 36 Gearbox pivot stud
- 37 Gearbox pivot stud washer 2 off 38 Gearbox pivot stud nut 2 off
- 39 Gearbox adjuster 40 Gearbox adjuster crosshead
- 41 Gearbox adjuster crosshead washer 42 Gearbox adjuster crosshead nut
- 43 Gearbox adjuster nut





97

Chaincase dowel 2 off Chaincase felt seal 56 Chaincase gasket Chaincase bolt 3 off Tab washer 3 off Chaincase centre stud

Inner chaincase complete with dowels Chaincase oil seal disc 2 off

- , 8 9
- Chaincase centre stud washer 2 off Chaincase centre stud nut
- 11 Chaincase centre stud shim number as required
- Stator stud 3 off
- 13 Stator stud son 13 Stator stud spacer 3 off 14 Stator stud washer 3 off 15 Stator stud nut 3 off

- 16 Outer chaincase 17 Ignition indicator plate 18 Hammer drive screw 2 off 19 Chain inspection cap

- 20 'O' ring for chain inspection cap 21 Timing inspection cap 22 'O' ring for timing inspection cap 23 Chaincase sealing rubber
- 24 Chaincase attachment nut 25 Chaincase attachment nut washer
- 26 Engine sprocket 27 Engine sprocket key
- 28 Alternator rotor 29 Alternator stator
- 30 Alternator leadwire grommet 31 Rotor spacer

32 Rotor shim 0.010 in. number as required 33 Rotor shim 0.036 in. number as required

32

283031

36 37 38

6932

- 35 Rotor washer 36 Rotor nut 37 Primary drive chain 38 Chaincase oil level plug 39 Oil level plug 'O' ring 40 Clutch assembly complete 41 Clutch sprocket complete with backplate 42 Clutch friction plate 4 or 5 off, depending on type 43 Clutch plain plate 3 or 4 off, depending on type of friction plate _ 44 Clutch oressure plate

34 Rotor key 35 Rotor washer

- 44 Clutch pressure plate 45 Clutch centre 46 Clutch diaphragm with centre
- 47 Clutch adjuster 48 Clutch adjuster locknut
- 49 Clutch centre bearing 50 Clutch bearing inner circlip
- 51 Clutch bearing outer circlip 52 Clutch diaphragm circlip

links, 21 tooth sprocket 60 Clutch retaining nut tab washer

- 53 Clutch location circlip 54 Clutch location spacer 55 Clutch location shim 0.036 in. number as required
- 56 Clutch location shim 0.048 in. number as required 57 Clutch retaining nut 57 Clutch retaining not 58 Clutch retaining nut washer 59 Final drive chain - 98 links, 19 tooth sprocket or 99







| Crankcase drive side 1 off | |
|--|---|
| Pivot pin 1 off | |
| Inlet camshaft bush 1 off | |
| Locating pin 1 off | |
| Bush exheust cemshaft 2 off | |
| Hotary valve 1 off | |
| Crankcase timing side 1 off | |
| Oil scavange pipe 1 off | |
| Some Loff | |
| Bolt 1 off | |
| Teh wesher 1 off | |
| Breather pipe 1 off | |
| Needle roller beering 1 off | |
| Dowel at junction block | |
| Idler gear spindle 1 off | |
| Peg lat thrust washer! 1 off | |
| Hallow dawel 2 off | |
| Screw 21/32 in. UH 2 off | |
| Stud (3 in. OA) 1 off | |
| Stud (3% in. UH) 2 off | |
| Bolt 1 5/8 in. UH) 1 off | |
| Plain Washer 3 011 | |
| Nut 1 off | |
| Nut 1 off | |
| Oil nump and /1 E/1E := OA 7 - M | |
| Bight main bearing (ball invent) 1 - 4 | |
| Abutment ring 1 off | |
| Cylinder base stud [1% in DA] 6 off | |
| Cylinder base stud (1 11/16 in OA) 2 of | • |
| Dowel 2 off | ' |
| Laft main bearing (roller journal) 1 off | |
| Oil seal 1 off | |
| Filter spring 1 off | |
| Filter 1 off | |
| Sealing washer 1 off | |
| Filter Cap 1 off | |
| Joint washer 1 off | |
| Stud (2.1/16 in OAL 2 off | |
| Drain olug (with lovel tube) 1 all | |
| Fibre wather 1 off | |
| Level plug 1 off | |
| Fibre washer 1 off | |
| Filler plug 2 off | |
| Fibre washer 1 off | |
| Blanking plug (LH thread) 1 off | |
| "O" ring 1 off | |
| Plug 1 off | |
| Washer I off | |



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- 12345
- Clutch assembly complete Clutch centre Thrust washer Roller 20 off Chainwheel and clutch out

- Roller 20 off
 Chainwheel and clutch outer drum (58 teeth duplex)
 Clutch inner drum
 Inner plate
 Counterrunk xcrews 6 off
 Shock absorber spider
 D Drive rubber (large) 3 off
 Hebound rubber (small)
 -3 off
 Quet cover

- 13 Scrawed pin 3 off 14 Inserted plate 6 off 15 Plain plate 6 off 16 Pressure plate 17 Adjuster pin 18 Locknut 20 Clutch spring + 1 mimble 3 off 20 Clutch spring 3 off 21 Clutch spring nuts (brass) 3 off 22 Kay 23 Cupped washer 24 Clutch nut







CYLINGER & CO Cylinder base washer Cylinder base aux Public roles Cylinder base aux Public roles Cylinder base aux Cylinder base gata Echaust wise Botom Cylinder base Differ solution Cylinder base gata Cylinder base Cy

CYLINDER BLOCK AND HEAD

 31
 Pian washer

 31
 Cylinder haad stud (for torque stay)

 32
 Linspection app

 33
 Linspection app

 34
 Joint washer

 35
 Locking spring

 36
 Rocker stayster, left inlet)

 37
 Rocker Kirjeft exhaust, left inlet)

 40
 Rocker stayster, left inlet)

 40
 Rocker stayster, left inlet)

 41
 Rocker stayster, left inlet)

 42
 Adjuster lock nut

 43
 Thrunt washer, in.

 44
 Spring washer

 45
 Rocker stayster, in.

 46
 Rocker stayster, in.

 47
 Thrunt washer, in.

 48
 Access plug

 49
 Washer for

 50
 Boit, cylinder head

 51
 Boit, cyclinder head

 52
 Spacer for

 53
 Spacer for

 54
 Washer

 55
 Vasher

 56
 For Lorque stay

 58
 Nut

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- Timing cover
- Patent plate Hammer drive screw 3 off Oil seal*
- 2 3 4 5 6
- Circlip Timing cover plug Copper washer Hollow dowel
- 7 8 9
- Screw 3 off Screw 5 off Bolt 10 11 12 13
- Plain washer
- Rubber grommet Pillar bolt 2 off Plain washer 2 off
- 14 15 16 Cover

- Cover gasket Serrated washer 2 off Screw 2 off Auto-advance unit

- Cam Spring set
- 18 19 20 21 22 23 24 25
- Spring set Shaft and action plate
- Contact breaker plate assembly Contact set 2 off
- 26 27
- Eccentric adjustment pin 2 off
- Lead from contacts to ignition coils 28



21 Screw

22 Oil seal

23 Circlip

Timing cover assembly - electric start models

Timing cover Second stage spindle Third stage spindle Outrigger plate securing stud Cover Screw Screw 8 Screw 9 Screw

1

2

3

4

5

6

7

10 Pillar bolt

- 11 Washer 12 Cover 13 Gasket 24 spindle 25 Roll pin 14 Screw 15 Fibre washer 16 Bolt 26 Dowel pin 17 Washer 27 Screw 18 Pulse sensor 28 Spring washer 29 Starter motor 19 Reluctor 20 Screw
- 30 Pinion 31 E-clip 32 Pinion (16T) 33 Pinion (54T) 34 Shock absorber bush 35 Face washer 36 Screw 37 Thrust washer 38 Nut
- 39 Pinion (36T/16T) 40 Pinion (36T/11T) 41 Pinion Pinion (24T) 42 Upper outrigger plate 43 Nut 44 Socket headed nut
- 45 Spring washer
- 46 Lower outrigger plate
- 47 Oil pressure switch



- Oil pump complete 1
- Pump body Feed plunger 2 3
- 4
- Scavenge plunger Drive block
- Valve ball (7/16 in) 2 off 6
- 7
- Valve spring 2 off Screwed plug 2 off Oil pump gasket
- 8 9
- 10 Oil pump stud 2 off
- 11 Serrated washer 2 off
- 12 Nut 2 off 13 Pressure release valve complete
- 14 Valve body

- 14 Valve body 15 Plunger 16 Cap 17 Fibre washer 18 Plunger spring 19 Fibre washer
- 20 Stud 4 off
- 21 Joint washer 2 off 22 Inlet manifold for TR6 model 23 Plain washer - 4 off 24 Nut - 4 off

- 25 Stud 2 off
- 26 Joint gasket
- 27 Heat insulator
- 28 Plain washer 2 off 29 Nut 2 off
- 30 Inlet tappet guide block
- 31 Exhaust tappet guide block 32 Serrated washer 2 off
- 33 Set bolt 2 off
- 34 Inlet tappet follower
- 35 Exhaust tappet follower

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36 'O' ring seal

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Oil pump - 4 valve type







