

Universal Cruise Control Kit

Parts list for Universal Cruise Control Parts Kits (Single spool CIU kit)

| <u>Item</u> | <u>Qty</u> | <u>Part Number</u> | <u>Description</u> |
|-------------|------------|--------------------------|---|
| | | <u>MCSU 400</u> | <u>Basic Cruise Control Component Kit</u> |
| 1 | 1 | MCSU 400C | Computer |
| 2 | 4 | | 8G x 3/8" self tapping screw |
| 3 | 1 | MCS 001 | Foam mounting block for computer |
| 4 | 1 | MCSU 401 | Wiring loom |
| a | | | Computer plug (26 pin) |
| b | | | Fuse holder (3 amp fuse) |
| c | | | Tach sensor wire (yellow wire) |
| d | | | Speed sensor connectors (co-axial wire) |
| e | | | Actuator plug (4 pin) |
| f | | | Power & brake sensor wires (orange and grey wires) |
| g | | | Ground connector (black wire) |
| h | | | Neutral sensor wire (blue wire) |
| i | | | Control switch plug (6 pin) |
| 5 | 1 | MCS 574 | Vacuum throttle actuator (throttle servo) including universal bracket and three 6g x 3/8" self tapping mounting screws |
| 6 | 1.5m | | Vacuum hose |
| 7 | 1 | MCS 031 | Vacuum 'T' connector |
| 8 | 2 | MCS 032 | Vacuum valve |
| 9 | 1 | MCS 820 | Cruise control switch |
| | 4 | | 4g x 1/2" self tapping screw (to attach mounting bracket) |
| | 2 | | 100mm cable tie (control switch cable strain relief) |
| 10 | 1 | MCS 300 | 300mm carburettor cable (other lengths of carburettor cables are available from 100mm to 500mm for order or exchange) |
| | 10 | | 150mm cable ties |
| | 10 | | 200mm cable ties |
| | 6 | | 300mm cable ties |
| | | <u>MCSU 400 A</u> | <u>Brackets kit</u> |
| 11 | 1 | MCS 020B | Universal actuator mounting bracket (spare) |
| 12 | 2 | MCS 024 | Universal 'L' mounting bracket for CIU mounting (1 spare) |
| | 4 | | M6 X 16 bolt |
| | 8 | | 6mm flat washer |
| | 4 | | M6 Nyloc nut |
| 13 | 1 | MCS830A | Control switch mounting bracket. The MCS830A bracket is the closest to a 'universal' switch bracket available, however there are a number of different brackets available. These brackets are available instead of the MCS830A bracket at time of order (straight swap at no additional cost) or may be purchased separately later. What bracket is desired will depend on bike make and model – refer to switch bracket addendum in installation instructions for listing, photos and diagrams of available control switch mounting brackets). |

MCSU 400 C Speed sensor kit

Note: - only required if connection to electric speedometer sender is not possible (motorcycle does not have an electric speedometer, or wiring is not accessible).

| | | | |
|----|---|---------|--|
| 14 | 1 | MCS 027 | Speed sensor |
| 15 | 4 | | 6mm flat washer |
| 16 | 1 | | M6 Nyloc nut |
| 17 | 1 | MCS 024 | Universal 'L' mounting bracket for speed sensor mounting |
| 18 | 6 | MCS 045 | 6mm dia x 4.5mm long magnets (other size magnets available on request (6D x 6L, 6D x 3L, 4.75D x 4.75L, 8D x 5L) |

19 MCSU 400 E Single spool Cable Interface Unit kit

Note: - for motorcycles with a single throttle cable. Two versions of this CIU are available.

The **E30/66** kit is for bikes with short to medium throttle cable travel and medium diameter carburetors or throttle bodies (cable travel from than 22mm to 32mm from idle to full throttle). This applies to most modern (early 90's and later sport touring and cruiser bikes). This will work on bikes with cable travel less than 22mm, but it may be difficult to get good performance from the cruise control at lower speeds (below 80kph).

The **E30/52** kit is for bikes with longer throttle cable travel (cable travel more than 32mm from idle to full throttle) and smaller carburetors/throttle bodies. This applies to many earlier model bikes (pre '90's) and to some modern cruisers. Also for smaller capacity engines that are using more than ½ throttle at cruising speeds

| | | | |
|----|-----------|----------------|---|
| 20 | 1 | MCSU 405 30/66 | CIU housing (30mm single spools, 66mm actuator spool) |
| | <u>OR</u> | MCSU 405 30/52 | CIU housing (30mm single spools, 52mm actuator spool) |
| 21 | 1 | MCS 003F | 66mm actuator cable spool |
| | <u>OR</u> | MCS 003M | 52mm actuator cable spool |
| 22 | 1 | MCS 003A | 30mm throttle cable spool |
| 23 | 1 | MCS 003B | 30mm carburettor cable spool for |
| 24 | 1 | MCS 003H | Bush |
| 25 | 1 | MCS 003K | End cap (66m housing) |
| | <u>OR</u> | MCS 003J | End cap (52mm housing) |
| 26 | 1 | | M5 x 45 bolt (CIU through bolt) |
| 27 | 2 | | 5mm flat washer |
| 28 | 1 | | M5 Nyloc nut |
| 29 | 1 | | M4 x 10 pan head screw (66mm housing) |
| | <u>OR</u> | | M4 x 6 pan head screw (52mm housing) |
| 30 | 16 | | Blanking plugs for CIU cable holes |
| 31 | 2 | MCS 003W | Throttle cable retainer |
| 32 | 3 | MCS 054 | Spring Clip |

MCSU 400 F Actuator Cover Kit

Note: - Actuator covers are available in Powder Coated finishes, either Satin Black or Silver Pearl (pearl metallic). These covers may be required for weather protection if the actuator is mounted in a position that is vulnerable to water splash from tires or the road or direct target from rain, or for decorative purposes if the actuator is mounted in a position where it is visible.

| | | | |
|----|---|----------|---------------------------------------|
| 33 | 1 | MCS 574D | Actuator solenoid (top) housing cover |
| 34 | 1 | MCS574F | Rubber grommet for solenoid housing |
| | 3 | | 6g x 1/2" self tapping screw |
| | 1 | | 6g x 3/8" self tapping screw |

35 1 MCS574E Actuator diaphragm (bottom) housing cover

MCSU 400 G CIU Cover Kit

Note: - This cover is purely decorative and may be used if the CIU is mounted in a position where it is visible. The cover is a polished flat plate with a MCC (MotorCycle Cruise) logo.

36 1 MCS003Q CIU polished cover
37 1 M5 x 50 stainless steel countersunk head bolt

MCSU 400 H Electrical Connection Kit

Note: - This kit contains various electrical terminals for the wiring loom. The contents of the kit will depend on the make and model of the motorcycle.

20 AMP 3-1447221-4 Computer plug terminals
2 AMP 4-1437284-3 Computer plug blanking plugs
5 Wire tap connectors ('Scotchlock' or 'Quick tap' connectors)
2 H1863 6mm ring terminal (ground connection, usually battery negative terminal)

Various other connectors and terminals supplied will depend on the make and model of motorcycle

MCSU 400 I Vacuum Reservoir Kit

Note: - This kit is usually only required on smaller capacity bikes (less than 400cc). It may be necessary for some models that use AP (atmospheric pressure) sensors on the fuel injection throttle system IF the sensor is connected to the inlet tract AFTER the throttle butterflies (on the vacuum side of the throttle butterflies). Call us for information on this as the engine tends to stumble or misfire when the cruise control is initially engaged.

38 1 MCS 071 Vacuum reservoir
39 2 M6 x 16 bolt
40 4 6mm flat washer
2 M6 Nyloc nut

Information, Set up and Operation Manual
Operation and User Manual
Installation Manual (universal or model specific)
Trouble shooting guide

Other components available for purchase not included in any of the above parts kits

MCS 051 M5 vacuum port fitting (required if the bike has blanking screws instead of hose barbs in the throttle balance ports)

MCS 052 Vacuum restrictors (may be required in conjunction with the MCSU400 G vacuum reservoir kit)

Parts list drawing

