

# Universal Cruise Control Kit

## Parts list for Universal Cruise Control Parts Kits (No CIU)

<u>Item</u>	<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
		<b><u>MCSU 400</u></b>	<b><u>Basic Cruise Control Component Kit</u></b>
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		150mm cable ties
	10		200mm cable ties
	6		300mm cable ties
		<b><u>MCSU 400 A</u></b>	<b><u>Brackets kit</u></b>
10	1	MCS 020B	Universal actuator mounting bracket (spare)
11	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
12	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 B      Throttle connection kit**

Note: - This set of parts is ONLY supplied for use on motorcycles using car engines, where this automotive based hardware is appropriate and relatively safe, eg. VW engine powered trikes. We will NOT provide these parts for use on normal motorcycles due to safety issues (throttle jams).

13	1	MCS 025A	4mm shouldered screw
14	2		4mm flat washer
15	1		M4 Nyloc nut
16	1	MCS 025B	5mm eye bead chain connector
17	1	MCS 025C	Bead chain and coupling
18	1	MCS 025D	9mm eye bead chain connector
19	1	MCS 025E	Bead chain coupling
20	1	MCS 025G	3 bead connector
21	1	MCS 025H	Wire loop connector
22	1	MCS 025I	Throttle cable clamp (threaded)
23	1	MCS 025J	Throttle cable clamp (unthreaded)
24	2		M6 x 16 bolt
25	2		6mm flat washer
26	1	MCS 025	Carburettor arm
27	1	MCS 025L	Indented washer for carburettor arm
28	1	MCS 024A	Flexible cable clamp
29	1		M6 x 16 bolt
30	2		6mm flat washer
31	1		M6 Nyloc nut
	5cm	HST 9	9mm heat shrink tube
	5cm	HST 6	6mm heat shrink tube

### **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).

32	1	MCS 027	Speed sensor
33	4		6mm flat washer
34	1		M6 Nyloc nut
35	1	MCS 024	Universal 'L' mounting bracket for speed sensor mounting
36	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))

### **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.

37	1	MCS 574D	Actuator solenoid (top) housing cover
38	1	MCS574F	Rubber grommet for solenoid housing
	3		6g x 1/2" self tapping screw
	1		6g x 3/8" self tapping screw
39	1	MCS574E	Actuator diaphragm (bottom) housing cover

### **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 if the engine tends to stumble or misfire when the cruise control is initially engaged.

40	1	MCS 071	Vacuum reservoir
41	2		M6 x 25 bolt
42	2		6mm flat washer
	2		6mm x 19mm large 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)
	MCS 025K	4mm to 5mm & 6mm vacuum tee

# Parts list drawing

