Motorcycle
Electronic Cruise Control ©

How to identify Cruise Control Switch and Cruise Control computer models

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MOTORCYCLE CRUISE CONTROLS

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Motorcycle Cruise Controls has used several different control switches and computers (electronics module) over the years, and cruise controls for some models of motorcycle have had ALL of the these switches and computers in cruise control kits over the years.

The best example of this is the Honda ST100 cruise control kit. This model has been available since 1998 until now and in that time has been based around four different cruise control computers resulting in four different cruise control kit part numbers; MCS1010, MCS1450, MCS1580 and currently MCS4050.

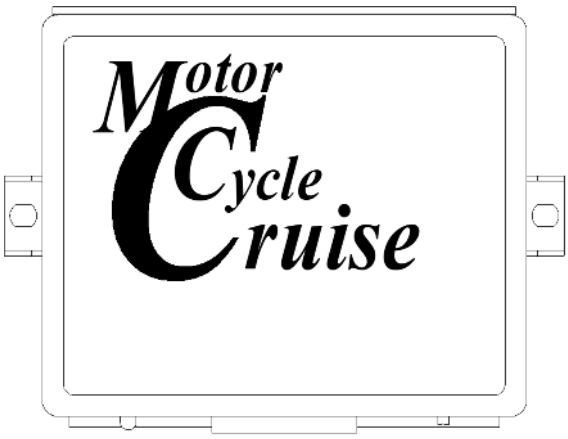
There have also been six different cruise control switches in that time. A control switch change with an unchanged computer results in a revision letter being added to the original kit part number eg. MCS1010a, MCS1010b or MCS1010c. Other changes to the cruise control kit can also be the cause for a revision number change, so not all revisions are the result of a control switch change.

These changes of computer and control switch are all because the components we used are no longer available, they were made obsolete by the manufacturer of the part. We now manufacture our own control switch and computer (and almost all components in the cruise control) and have been able to get continuity in our model range as a result.

The parts list at the end of the cruise control installation manual supplied with your kit will give you the correct part numbers for both the cruise control computer and the control switch. This is the best way to ensure that you are ordering the correct part.

This document has pictures of the various computers and control switches to assist in identifying what you have in the event that you have lost your original installation instructions.

MCS 022 (AP50) computer



This is the first model computer used on MotorCycle Cruise Controls.

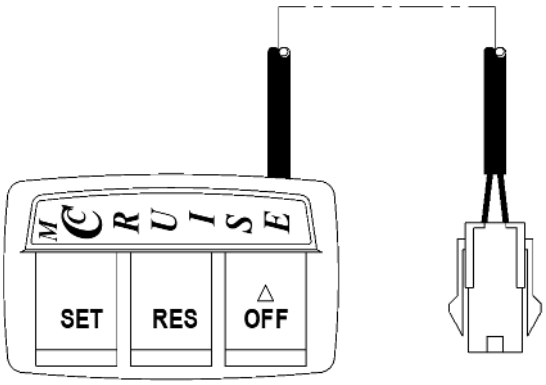
This computer is housed in a **grey plastic** box. It has a 12 way connector (on the lower face in the diagram), a red LED (light) beside the connector on one side and a small three position slide switch for gain adjustment on the other side of the connector.

The part number for this computer in the **parts list in the cruise control installation instruction set** will be MCS ***050 with no suffix or an L or H suffix (eg. MCS 02050L)

There will not be any model identifying numbers on the computer box. There may be a sticker with a serial number on it, but it is meaningless.

These part numbers tell us the configuration of the computer which varies from model to model.

MCS 023 control switch (for MCS 022 computer)



This is the first model control switch used on MotorCycle Cruise Controls.

The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 011, MCS 012 or MCS 013 depending on the type of label (the MC Cruise label) on the switch.

This switch is ONLY suitable for use with the MCS 022 computer.

This switch has a four-way connector on the wires, but only three positions are used.

MCS 019 control switch (for MCS 022 computer)

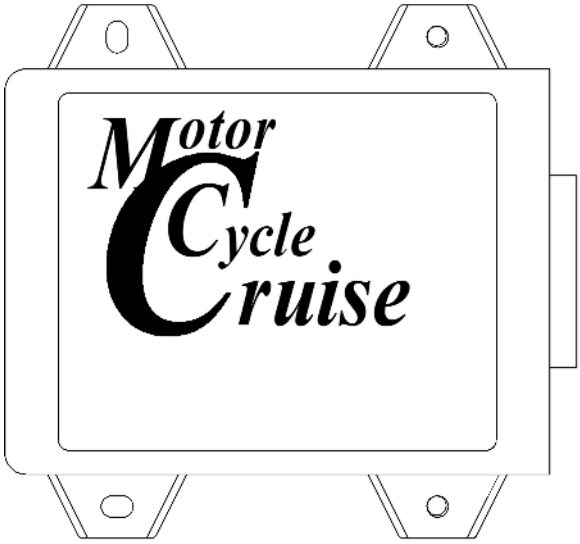
This is the second model control switch used on MotorCycle Cruise Controls.

The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 019.

This switch is ONLY suitable for use with the MCS 022 computer shown above.

This switch has a four-way connector on the wires.

MCS 062 (CA350) computer



This is the second model computer used on MotorCycle Cruise Controls.

This computer is housed in a **black plastic** box. It has a 20 way connector (on the right face in the diagram) and a red LED (light) beside the connector OR a red light visible on the top face of the box (depending on the design of the plastic box).

The part number for this computer in the **parts list in the cruise control installation instruction set** will be MCS ***0C with an M or K suffix (eg. MCS 1450CM).

Originally there would have been a sticker on the end of the box with this part number, but it may be lost or have faded with time.

The basic part number of the computer is the same as the cruise control kit part number with a 'C' suffix. The M or K suffix after the 'C' identifies it as set up for KPH or MPH.

MCS 064 control switch (for MCS 062 computer)

This is the third model control switch used on MotorCycle Cruise Controls.

The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 064.

This switch is ONLY suitable for use with the MCS 062 computer shown above.

This switch has a six-way connector on the wires but only five positions are used.

The control switch looks identical to the MCS 019 control switch. The only visible difference is the six-way connector fitted to the wires on this switch.

MCS 572 (AP150) computer

This is the third model computer used on MotorCycle Cruise Controls.

This computer is housed in a **black metal** box. It has a 16 way connector in the lower end plate (the lower face in the diagram) and a red LED (light) on the opposite end plate (the upper face in the diagram). There is a rubber cover fitted in the upper end plate. There are a number of DIP switches under this cover.

The part number for this computer in the **parts list in the cruise control installation instruction set** will be MCS 1**0C (eg MCS 1580C).

Originally there would have been a sticker on the side of the box with this part number and the default DIP switch settings, but it may be lost or have faded with time.

The basic part number of the computer is the same as the cruise control kit part number with a 'C' suffix.

MCS 581 control switch (for MCS 572 computer)

This is the fourth model control switch used on MotorCycle Cruise Controls.

The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 581.

This switch is ONLY suitable for use with the MCS 572 computer shown above.

This switch has a four-way connector.

The control switch looks identical to the MCS 019 control switch, but the internal circuitry is totally different.

MCS 590 control switch (for MCS 572 computer)

This is the fifth model control switch used on MotorCycle Cruise Controls.

The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 590.

This switch is ONLY suitable for use with the MCS 572 computer shown above.

This switch has a four-way connector.

MCSU 400C computer

This is the fourth model computer used on MotorCycle Cruise Controls, and is designed and made by MotorCycle Cruise Controls. All previous computers were modified automotive cruise control computers.

This computer is housed in a **silver metal** box (aluminium). It has a 26 way connector in the lower end plate (the lower face in the diagram) and two LED's (lights) on the same face as the connector, one on each side of the connector. One light is green and the other is red.

The part number for this computer in the **parts list in the cruise control installation instruction set** will be MCSU 400C.

There is usually a label on the side of the computer to say what model of motorcycle it was originally configured for. This label may also have a version number on it (eg V2.79). Later versions had a separate label on the end plate (the top of the computer in the diagram at right) with the version number on it (eg V2.81).

Typical version numbers for Motorcycle Cruise are V2.79, V2.80, V2.81, V2.83, V2.83BL, V2.83.22BL, V2.83.22BL, V4.24BL V4.35BL, V4.373 and V4.378. These version numbers tell us about hardware and firmware revisions.

Typical versions numbers for QuadCruise ATV cruise control are V2.37, V2.49, V2.51, V2.52, V2.54BL, V2.55BL. These version numbers tell us about hardware and firmware revisions.

This information can be useful for us to help diagnose problems and supply the correct replacement parts.

WARNING: - While the MCSU400C and MCS8000 computers (see next page) have the same wiring harness connector, THEY ARE NOT COMPATIBLE. The wiring connections are different and MUST NOT be exchanged unless the wiring harness connector is re-pinned to suit.

MCS 820 control switch (for MCSU 400C and MCS 8000C computers)

This is the sixth model control switch used on MotorCycle Cruise Controls.

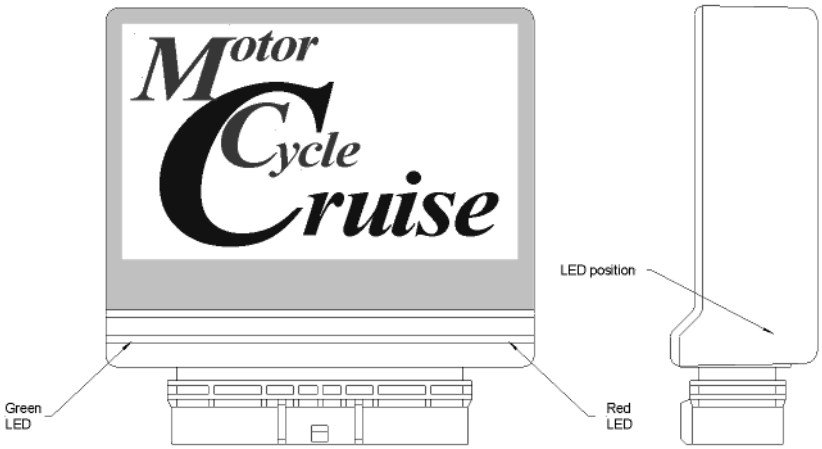
The part number for this control switch in the **parts list in the cruise control installation instruction set** will be MCS 820 OR MCS826 if the switch is mounted on the right side (the button and indicator light positions are reversed). In some cases it may be listed as MCS 820-***. The last two or three digits refer to the length of the wires on the switch.

This switch is ONLY suitable for use with the MCSU 400C computer shown above and the MCS 8000C computer over the page.

This switch has a six-way connector.

The control switch looks identical to the MCS 590 control switch but the internal circuitry is totally different. The only visible difference is the six-way connector fitted to the wires on this switch versus the four way connector on the MCS590 switch.

MCS 8000C computer



This is the fifth model computer used on MotorCycle Cruise Controls, and is designed and made by MotorCycle Cruise Controls. All previous computers were modified automotive cruise control computers.

This computer is housed in a **dark 'smoked' (almost black) semi-transparent plastic box**. It has the same 26 way connector in the lower end (the lower face in the diagram) as the previous MCSU400C computer. There are two LED's (lights) INSIDE the computer box mounted on the circuit board. They will only be visible when turned on. One light is green and the other is red. Typically the red LED will start flashing as soon as the ignition is turned on, the green LED will come on with button presses (on the cruise control switch) brake application.

The part number for this computer in the **parts list in the cruise control installation instruction set** will be MCS 8000C.

If the computer is used in a speed limiter instead of a cruise control, the part number of the computer will be the basic speed limiter kit part number (eg SL2470) with a "C P24" suffix (eg SL2470C P24).

There is usually a label on the side of the computer to say what model of motorcycle or ATV it was originally configured for. There will also be a separate label on the top end (the top of the computer in the diagram) with the version number on it (eg V4.68). These version numbers tell us about hardware and firmware revisions.

This information can be useful for us to help diagnose problems and supply the correct replacement parts.

WARNING: - While the MCSU400C and MCS8000 computers have the same wiring harness connector, THEY ARE NOT COMPATIBLE. The wiring connections are different and MUST NOT be exchanged unless the wiring harness connector is re-pinned to suit.

MCS 820 control switch (for MCSU 400C and MCS 8000C computer)

This is exactly the same control switch as used on the previous model computer (MCSU400C).