



**Motorcycle
Electronic Cruise Control
Instruction Manual ©**

**Fitting protective/decorative covers to
MCS574 vacuum actuators**

MOTORCYCLE CRUISE CONTROLS

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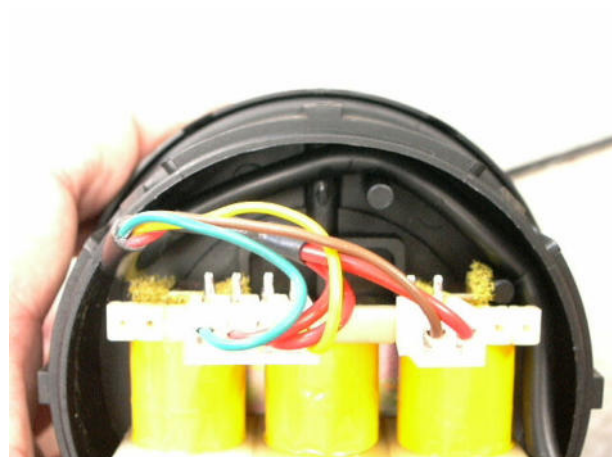
This manual shows the correct procedures to safely fit MCS574D and MCS574E spun aluminium covers to MCS574 vacuum actuators.

- Remove any mounting brackets already fitted to the actuator.



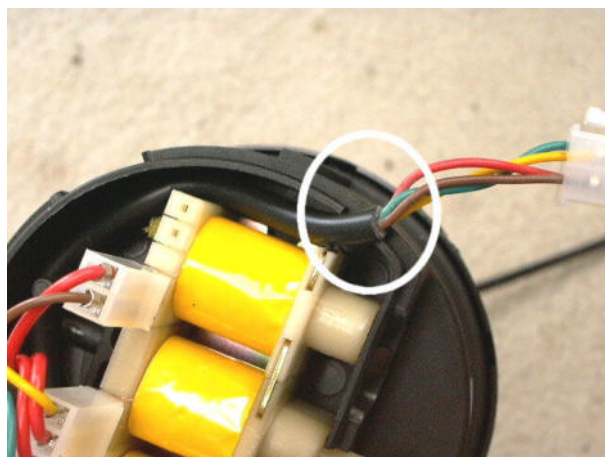
- Gently lift the two rear tabs holding the top cover on the actuator with a fine screwdriver.
- Tilt the cover up and disengage the front tabs.
- Lift the cover off. Be careful not to dislodge the solenoid pack inside the actuator.

- The solenoid pack and wiring harness inside the actuator.

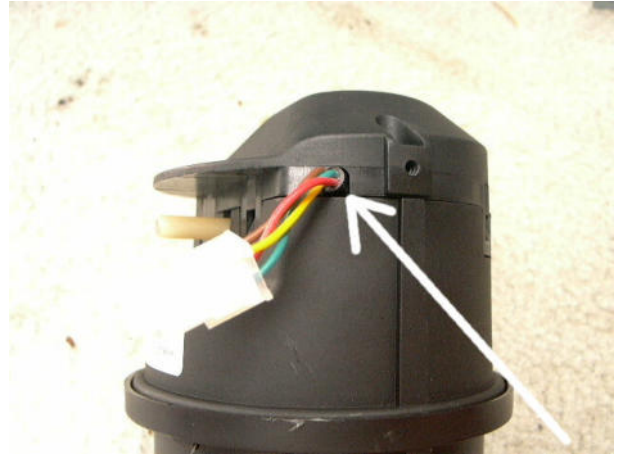


- Pull the wiring harness out of the actuator (don't remove the plugs or dislodge the solenoid pack), and move the loom around and re-insert it in the top of the actuator so that....

- ...the sheath over the wires is level with the outside edge of the actuator body.

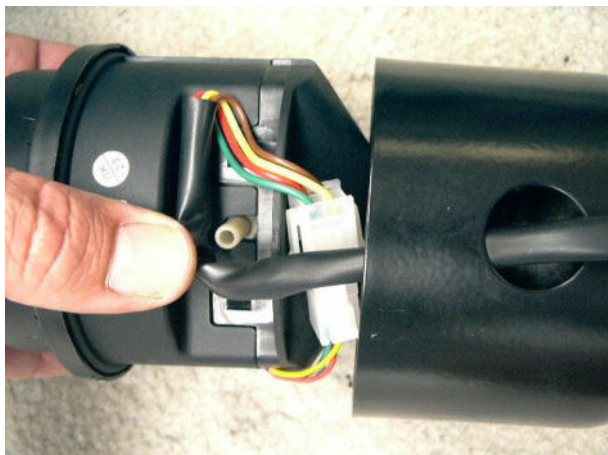


- Re-fit the top cover to the actuator.
- Be sure that the sheath over the wires does NOT protrude past the edge of the actuator body.



- If the actuator is to be mounted so that the cable end points UP at all, drill a drain hole of at least 2mm diameter (2.5~3mm or 3/32~1/8" preferred) at the what will be the lowest point of the actuator solenoid housing cover when installed on the bike.
- If the actuator is horizontal or the cable is pointing down, do not drill any drain holes in the solenoid housing cover.

- Fit the grommet to the actuator wires (the wires from the cruise control computer)
- Feed the plug and wires through the hole in the cover.



- Connect the actuator plugs to each other
- Position the plug on the flat area on the top of the actuator.
- Slide the solenoid housing cover over the top of the actuator.

- The actuator cover in position, showing the vacuum hose barb through the hole in the cover.



- Fit the actuator bracket to the actuator. Use the longer self tapping screws on any holes used by the bracket.
- Use the shorter screws on any holes that are not covered by the bracket.

- Feed the vacuum hose through the grommet and connect the hose to the actuator hose barb.



- Fit the grommet in the hole in the cover.

- There should already be one or two drain holes in the diaphragm housing supplied. If there are no drain holes, it is essential that at least one hole of 2.5~3mm (3/32~1/8") diameter is drilled in the cover
- Use a non-acid silicone sealant to glue the diaphragm cover to the actuator. Be careful not to use too much sealant. Apply a **THIN** bead of sealant around the inside of the cover. The sealant is NOT to seal the cover, but simply to hold it in place. The use of silicone sealant makes it relatively easy to remove the cover should that be necessary.



WARNING: - Do not apply too much sealant. If the 4 small holes in the bottom of the actuator diaphragm housing are blocked with sealant this will disable the actuator, and could result in a dangerous situation where throttle is applied, and is not able to released. Air flow to the diaphragm housing is critical. The drain hole/s that are drilled in the solenoid housing cover are also critical for the same reason. There MUST be provision for air to enter and escape from the diaphragm housing.

- Fit the diaphragm cover over the cable and to the lower end of the actuator.
- Rotate the cover so that the drain hole/s are at the lowest point of the actuator when it is fitted to the bike.
- If the actuator is not pointing down at a significant angle (if the tapered sides on the 'nose' of the actuator are not horizontal or sloping up), or is in a location that is subject to considerable water spray either from air/wind flow or from water thrown up by the tires that would force water past the cable, we recommend that you force some silicone sealant around the cable into the diaphragm housing (black arrow). This will prevent water entering the actuator past the cable and causing corrosion in the actuator.
- If the actuator IS pointing down (cable end downwards) DON'T seal the end with silicone sealant, as this will prevent any water or condensation escaping from the actuator. Any water forced into the end will also drain back out.

