



(This Service Letter is FAA D.O. AUTHORIZATION SW-1 APPROVED)

SERVICE BULLETIN M 20-136

SUBJECT: Cluster Gage

MODELS AFFECTED: M20C S/N 1852, 1940-3184
M20D S/N 1, 101-259
M20E S/N 101-831

TIME OF COMPLIANCE: Optional

INTRODUCTION: We now have available cluster gages with separate modules for each element of the gage which can be replaced separately if necessary.

- INSTRUCTIONS:**
1. Remove engine panel Royalite cover.
 2. Remove wires from cluster gage. If gage is not equipped with a cannon plug, note and label each wire for its location.
 3. Remove the cluster gage from the panel.
 4. It will be necessary to square up the corners of the opening in the panel using a 1/64 inch radius in the corners.
 5. Set the cluster in the opening in the panel to see that it fits properly. If not, the opening must be enlarged until it will fit.
 6. Install the cluster gage in the opening and drill .190/.194 dia. thru the panel to match the holes in the cluster gage.
 7. With the cluster gage on the engine side of the panel, install four each AN515-8R8 screws, AN960-8L washers, and AN365-832 nuts.
 8. If aircraft is equipped with a cannon plug for the cluster gage, connect the cannon plug to the cluster gage. If not, connect the individual wires with their corresponding terminals.
 9. Install the Royalite engine panel cover previously removed.

SERVICE LETTER KIT NO. 20-136:

Cluster Gage Part No. for Aircraft Serial No.	
22-169-M	M20C 1852, 1940-2622
22-169-L	M20C 2623-2656
22-169-J	M20C 2657-3184
22-169-M	M20D 1, 101-200
22-169-L	M20D 201 only
22-169-J	M20D 202-259
22-169-K	M20E 101-230
22-169-H	M20E 231-831

AN515-8R8 Screw (4)
AN960-8L Washer (4)
AN365-832 Nut (4)

This Service Letter Kit may be purchased from your local Mooney distributor. Direct factory orders will not be accepted. When ordering your kit, be sure to specify model and serial number of aircraft.