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INSTRUCTIONS FOR INSTALLING AND ADJUSTING #87390 SET OF PARTS FOR UNIVERSAL RELEASE MAGNET ON TRANSMITTER DISTRIBUTORS

The #87390 set of parts consists of the following:

1	M-198	Magnet coil (comp.)
1	1248	Screw
1	84114	Yoke
2	~~6846~~ 74986	Screw
1	84115	Armature
1	86951	175-350 ohm resistor
* 8	8896	Shim

INSTALLATION:

Before doing any mechanical work on the transmitter distributor, it is advisable to lift the transmitting brushes off the commutator disc to avoid mutilation.

1. Remove the base plate.

2. Unsolder the connections to the #7158, 500 ohm, resistor and remove the resistor. Install #86951, 175-350 ohm, resistor so that the 350 ohm section is toward the front of the distributor. Connect leads to the two end resistor terminals. For 110 volt A.C. operation, strap the center terminal to the front terminal. Omit the strap for D.C. operation.

3. Disconnect the wires on the terminal of the two M-153 magnet coils, and tape the wires which were connected to the upper terminals of each coil.

4. Assemble the number M-198 universal magnet coil to the #84114 yoke by means of the #1248 flat head screw supplied with the set of parts.

5. Remove the two magnet coils and fasten the yoke assembly in their places with the two #6746 mounting screws supplied with the set of parts. This assembly should be mounted in such a manner that the magnet terminals are toward the side of the machine.

6. Replace the #77090 armature with the #84115 armature using the original mounting screw.

7. Connect the upper wire to the upper terminal of the magnet and the lower wire to the lower terminal.

* Indicates a change

ADJUSTMENT:

* Adjust the position of the bracket, by means of its mounting screw, so that when the armature is resting against the magnet core, there is from .004" to .012" space between the high surface of the stop cam and the side of the armature lever. When making this adjustment, see that both upper and lower pole faces of the magnet yoke are parallel to the face of the armature. The air gap between both the upper and lower pole faces of the magnet yoke and the face of the armature should be approximately ~~equal and from .010~~" to .020" when the armature is resting against the magnet core. Adjust by adding or removing shims between the magnet core and magnet yoke. If necessary, add #8896 shims between the magnet bracket and the magnet yoke on #6746 screws to equalize these gaps. See that the pole faces do not extend beyond either side of the armature.

Replace the base plate.

If the magnet "hums" when energized with A.C., turn the bracket in a counterclockwise direction very slightly to decrease the clearance between the armature and that part of the center pole encircled by the copper slug.

* Indicates a change