

SWITCH CONTINUITY CHART

**Two Speed Motor
(With Non-Concealed Wipers)**

Off	Low	High
B to B/U.	B to B/U.	B to B/U.
B to P1.	B to P1.	B to P1.
A to P2.	B to A.	B to H.
H-open	P-2 open	P2-open
	H-open	A-open

SWITCH CONTINUITY CHART

**Two Speed Motor
(With Concealed Wipers)**

Off	Low	High
B to P.	B to A.	B to H.
A to Ground	F2 to Ground	F2 to Ground
F2-Open	P-Open	P-Open
H-Open	H-Open	A-Open

MOTOR REPAIR TWO SPEED (Fig. 7)

If the motor is found to be defective after tests, disassemble the motor as follows:

Disassembly

- (1) Remove wiper motor.
- (2) Mount motor assembly in a vise.
- (3) Remove motor housing through bolts.

- (4) Remove motor housing and armature assembly.
- (5) Remove flat washers and spring washer.

Repair

- (1) Inspect motor housing for following items:
 - (a) Foreign material,
 - (b) magnets, retaining clips or bearing retainers are loose or broken,
 - (c) plastic thrust bearing missing or damaged. Thrust bearing can be seen by looking through center of bearing in bottom of motor housing.
 If any of these conditions exist replace housing.
- (2) Test Armature as follows:

Testing Armature for Short Circuit

Place armature in growler and hold a thin steel blade parallel to the core and just above it, while slowly rotating armature in growler. A shorted armature will cause blade to vibrate and be attracted to the core. Replace armature if shorted.

Testing Armature for Ground

Contact armature shaft and each of the commutator riser bars with a pair of test lamp probes. If lamp lights, it indicates a grounded armature. Replace grounded armature.

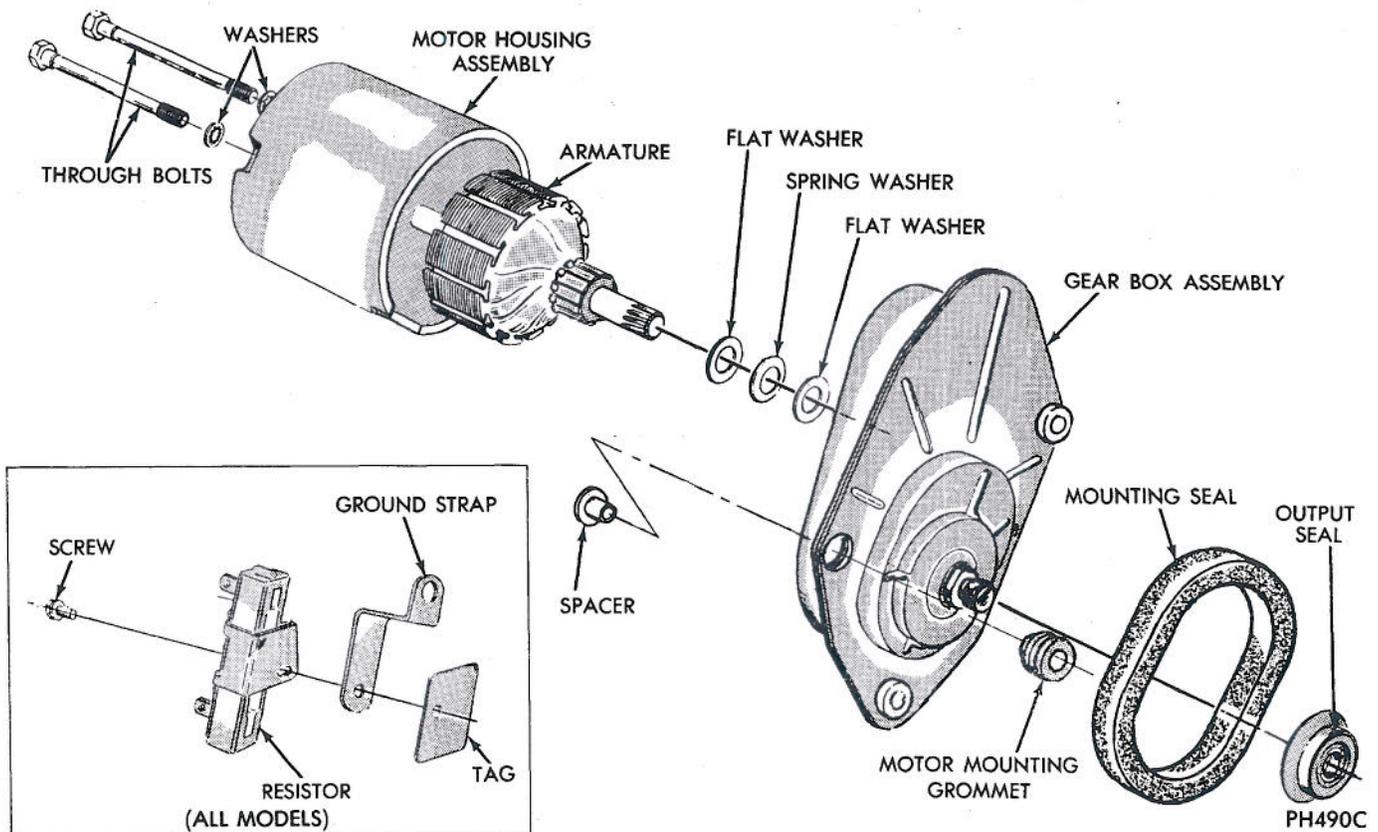


Fig. 7—Two Speed Wiper Motor (Exploded View)