VOLTAGE 12 ROTATION See Tabulation BRUSHES 4 POLES 4

VENTILATED No FRAME DIAMETER 4-9/16"

LUBRICATION — None required. Prelubricated and sealed ball bearings used at both ends of the motor.

BRUSH REPLACEMENT — Replace brushes when they have worn down to a length of 5/16" or less.

SPRING TENSION — 42 to 53 ounces with new brushes. Measure with a spring scale hooked under the brush spring at the brush. Pull the scale on a line opposite the line of force exerted by the brush spring and take the reading just as the spring leaves the brush.

END PLAY — Adjust to .005" to .050" with thrust washers at C.E. bearing. Refer to Parts & Equipment List for thrust washer package.

TEST CONNECTIONS — (See Tabulation for Test Connection)

TEST #1

CWDE
Connect Red wire to battery positive.
Connect Blue wire to White wire.
Connect Yellow and Black wire to battery negative.

CCWDE
Connect Red wire to battery positive.
Connect Blue wire to Black wire.
Connect Yellow and White wire to battery negative.

TEST #2

Low Speed
Connect Red and Yellow wire to battery positive.
Connect Black lead to battery negative.

High Speed
Disconnect Yellow wire for high speed

prestolite

SERVICE INFORMATION

TEST SPECIFICATIONS

(77°F/25°C) Test reversible motors in both directions of rotation.

| | Terminal Voltage | Maximum Amperes | RPM | Torque Ft. Lbs. |
|---|---|---|---|---|
| No Load Test | 12 | 42 | 1500 | -0- |
| Stall Torque Test | 4 | 80 | -0- | 3.2 |

| Unit | Rotation | Test Connections | Internal Wiring | Special Notes |
|---|---|---|---|---|
| MHF-4001 | Reversible | Test #1 | Figure 1 | |
| MHF-4002 | CWDE | Test #2 | Figure 2 | Note #1 |
| MHF-4003 | Reversible | Test #1 | Figure 1 | |
| MHF-4004 | Reversible | Test #1 | Figure 1 | |
| MHF-4005T | Reversible | Test #1 | Figure 1 | Note #2 |
| MHF-5001 | Reversible | Test #1 | Figure 1 | |
| MHF-5002 | Reversible | Test #1 | Figure 1 | |

NOTE #1 Test MHF-4002 at low speed

NOTE #2 After inspection of the various parts, paint brush holder insulation wiht Red Glyptal. Cover Glyptal and all metal surfaces except pilots, head seats, threads, commutator and bearing surfaces with air-drying, fungus resistant insulating varnish. Allow varnish to soak into field coils and armature windings and dry thoroughly before assembling motor.

Special Note - Please note that once this Explosion Proof Motor has been disassembled and repaired, it is no longer considered to be UL listed and/or approved.

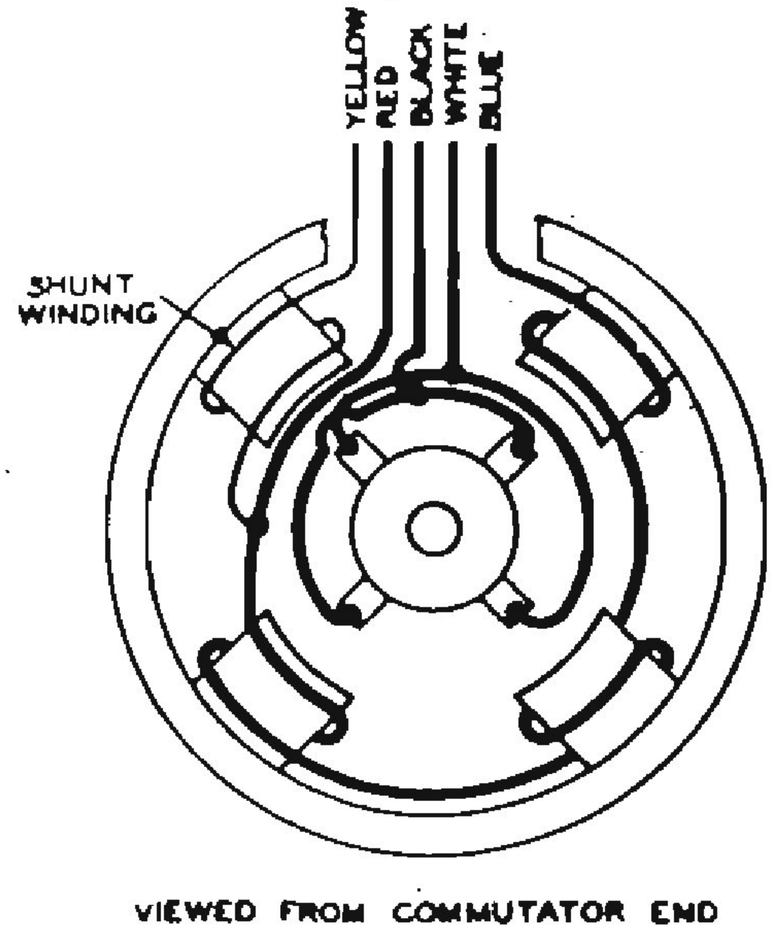


Figure 1.

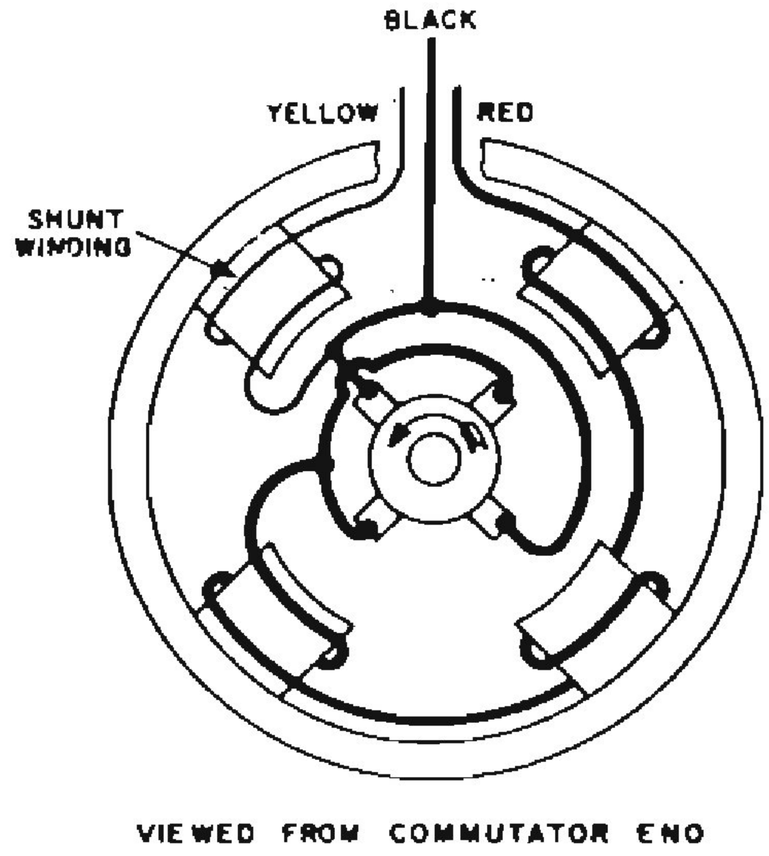


Figure 2.