Magnetic Pickup Installation Instructions Models: MP3298, MP7905, and MP7906

MP-8802N Revised 03-02 Section 20 (00-02-0181)



Please read the following information before installing. A visual inspection of this product for damage during shipping is recommended before mounting. These instructions are intended for MP3298, MP7905, and MP7906 models.



Description

A magnetic pickup is an AC generator. It is normally installed into the flywheel housing of an internal combustion engine, so that the starter ring gear acts upon it to generate a voltage pulse each time a gear tooth passes the end of the sensor.

Specifications

Housing Material:

MP3298: Type 300 Stainless Steel.

Locknut: Type 300 Stainless Steel.

MP7905 and MP7906: Type 6061 Aluminum/Anodize Class 1. Locknut: Steel Nickel Plated.

Output Leads (all models): Two insulated leads, 20AWG, STR/TEF insulated per MIL-W-16878D Type E, 1 White and 1 Black.

Output Voltage (all models): 200 V.P.P. TYP. (tested at 1000 I.P.S. 20 Pitch gear, 0.005 Gap., and 100K OHM Load).

Coil Resistance:

MP3298: 975 Ohms TYP.

MP7905 and MP7906: 2500 Ohms TYP.

Potting (all models): Internal portion of pickup is filled with epoxy resin, making the magnetic pickup oil and moist resistant.

Temperature (all models): -65° to +225°F (-54° to 107°C).

Coil Induct.:

MP3298: 800 mH max, @ 1K Hz.

MP3298: 400 mH TYP. @ 1K Hz.

| Pickup | Part | Total | Threaded | Thread |
|--------|----------|--------------------|--------------------|------------|
| Model | Number | Length | Length | Size |
| MP3298 | 20700162 | 3 in. (76 mm) | 3 in. (76 mm) | 5/8-18 UNF |
| MP7906 | 20700161 | 3 in. (76 mm) | 3 in. (76 mm) | 3/4-16 UNF |
| MP7905 | 20700160 | 4-1/2 in. (114 mm) | 4-1/2 in. (114 mm) | 3/4-16 UNF |

GENERAL INFORMATION

Gap Chart

| - | | | | | _ |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| THREAD | TURN | | | | |
| SIZE | 1/4 | 1/2 | 3/4 | 1 | |
| 5/8-18 UNF | .013 in. (0.33 mm) | .028 in. (0.71 mm) | .035 in. (0.88 mm) | .055 in. (1.39 mm) | G |
| 3/4-16 UNF | .015 in. (0.38 mm) | .030 in. (0.76 mm) | .045 in. (1.14 mm) | .062 in. (1.57 mm) | ΑP |

Typical Installation

Magnetic Pickup Installation (see diagram below) Drill and tap a hole in the flywheel housing (See Specifications for model and thread size). *IMPORTANT:* Drilling too deep may damage ring gear teeth. Blow chips with air hose when drilling and tapping hole.

Gap Adjustment

Insert magnetic pickup and turn until it stops at the face of the gear. Back-off the gear by turning the pickup counter-clockwise 1/4, 1/2, or 3/4 turn (drawing right).

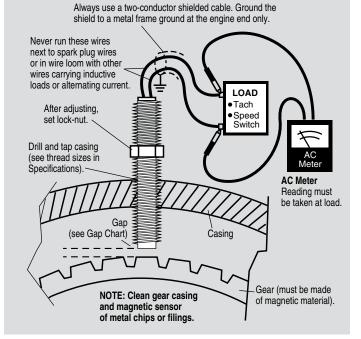
See Gap Chart below to determine gap distance based on the turn. Check gap clearance by rotating the gear completely around.



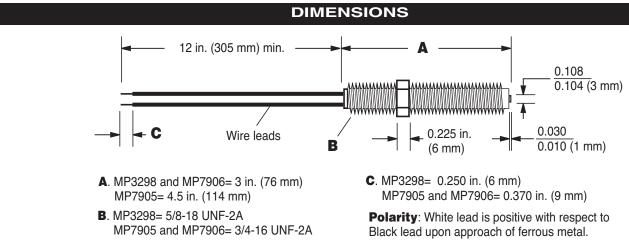
NOTE: Magnetic pickup gap should be adjusted so

that the minimum voltage required is attained at the engine's lowest RPM. The voltage will increase as the speed increases.

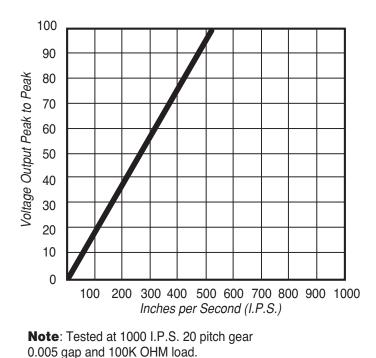
If erratic readings occur, remove magnetic pickup and check the magnetic tip for metal chips.



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Output Voltage Operating Chart



Gear Pitch/Voltage Output Chart

| Gear Pitch | % Output Std. Volts | | |
|---------------|------------------------|--|--|
| 6 | 187 | | |
| 8 | 172 | | |
| 10 | 162 | | |
| 12 | 157 | | |
| 16 | 118 | | |
| 20 | 100 | | |
| 24 | 85 | | |
| 32 | 23 | | |
| 48 | - | | |
| 64 | _ | | |
| 72 | - | | |

Note: Dash indicates not recommended

R.P.M. x dia. x 3.14 I.P.S. = 60

Warranty

A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm



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