

sect. 70 1511775 2016/02/25 (00-02-0181)

Magnetic Pickups Models MP3298, MP7905 and MP7906



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.:

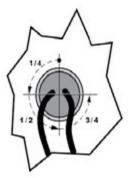
MP3298: 800 mH max, @ 1 KHz MP3298: 400 mH TYP. @ 1 KHz



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

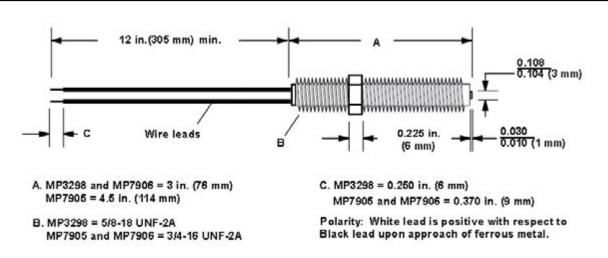
NOTE: Magnetic pickup gap should be adjusted so that the minimum voltage required is attained at the engine's lowest RPM. The voltage will increase as the speed increases. If erratic readings occur, remove the magnetic pickup and check the magnetic tip for metal chiips.



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

Plckup Model	Part Number	Total Length	Threaded Length	Thread 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

Dimensions

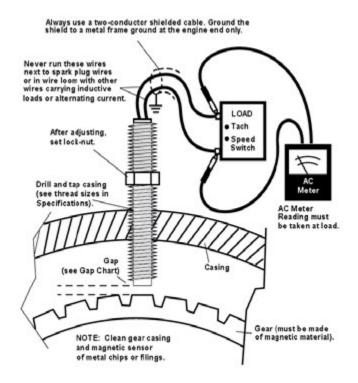


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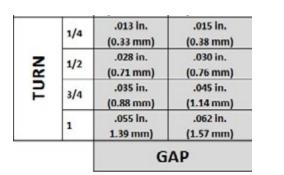
Magnetic Pickup Installation

Gear Pitch/Voltage Output

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 Chart



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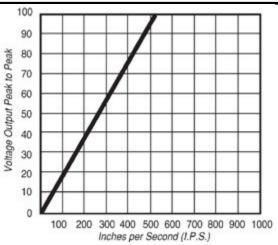
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Gear Pitch	% Output Std. Volts	
6	187	
8	172	
10	162	
12	157	
16	118	
20	100	
24	85	
32	23	
48	-	
64	-	
72	-	

Note: Dash indicates not recommended.

Output Voltage Operating Chart



Note: Tested at 1000 I.P.S. 20 pitch gear, 0.005 gap and 100K OHM load.

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