



SPEED SENSORS INSTALLATION MANUAL

Models: 517579, 1252966, 1895746, 1932550, 3244131

WARNING

BEFORE BEGINNING INSTALLATION OF THIS CTP PRODUCT

- Follow all safety warnings of the machine manufacturer.
- Disconnect all electrical power to the machine.
- Make sure the machine cannot operate during installation.
- Read and follow all installation instructions.

Please read the following information before installing:

Accurate speed measurement is a requirement for many engine-driven applications. CTP speed sensors provide an accurate and reliable means of converting rotational speed into a signal that can be measured by electronic control equipment.

Description

A speed sensor 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.

Typical Installation

Speed Sensor Installation (see diagram)

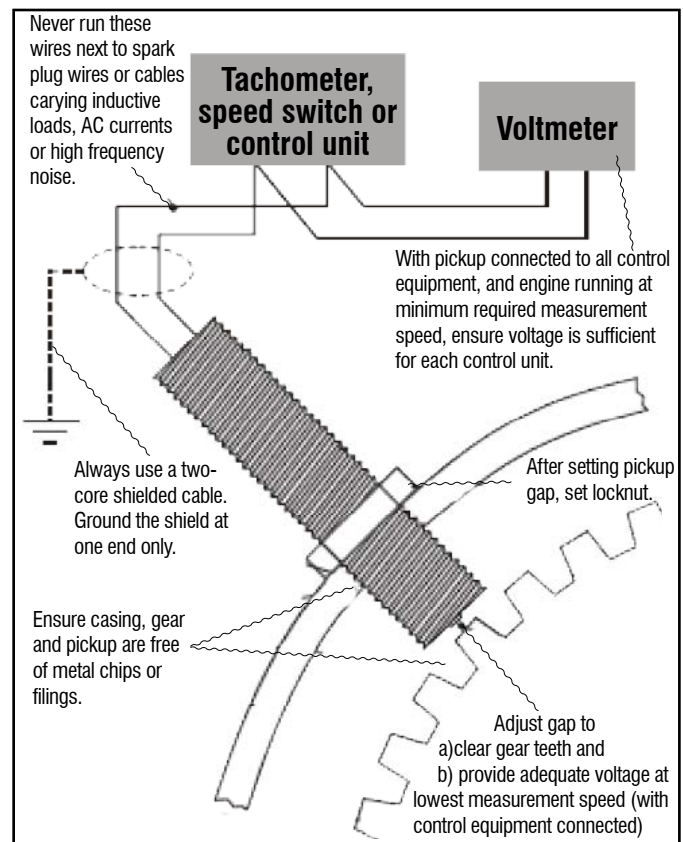
Drill and tap a hole in the flywheel housing (See Specifications for part number and thread size).

IMPORTANT: Drilling too deep may damage ring gear teeth. Blow chips with air hose when drilling and tapping hole.

Gap Adjustment

Insert speed sensor 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 below to determine gap distance based on the turn. Check gap clearance by rotating the gear completely around.

NOTE: Speed Sensor 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 Speed Sensor and check the magnetic tip for metal chips.



Part Number	Diameter and Thread Size	Total Length	Threaded Length	Material
517579	M16 - 1.5	2.20 in.	1.5 in.	Stainless Steel 316
1252966	M16 - 1.5	2.20 in.	1.5 in.	Stainless Steel 316
1895746	5/8" -18	3.25 in.	3.25 in.	Stainless Steel 316
1932550	M16 - 1.5	3.00 in.	2.75 in.	Stainless Steel 316
3244131	5/8" -18	3.125 in.	3.125 in.	Stainless Steel 316

THREAD Size	Turn				GAP
	1/4	1/2	3/4	1	
5/8-18	.013 in. (0.33 mm)	.028 in. (0.71 mm)	.35 in. (0.88 mm)	.55 in. (1.39mm)	
M16 -1.5	.015 in. (0.38 mm)	.030 in. (0.76 mm)	.045 in. (1.14 mm)	.062 in. (1.57 mm)	