Murphy W-Series Engine Panels General Installation Instructions



Read the following information before installing. These installation instructions are typical for a variety of W-Series engine panels and may not reflect the exact configuration for your panel assembly. It is assumed that the installer is familiar with engine operations and has basic mechanical and electrical skills. If additional assistance is needed, please call your Murphy dealer or contact on of our offices at the numbers listed on this instruction sheet. A visual inspection for any damage which may have occurred during shipping is recommended.

GENERAL INFORMATION







Description

Generally, pressure and temperature Swichgage* contacts are wired to a central nerve center called a Magnetic Switch or Tattletale*annunciator. This nerve center is essentially a relay and, when signaled by a Swichgage contact operation, it either makes or breaks a circuit to operate an alarm or engine shutdown device. Various nerve centers are used

depending upon the operation to be performed, the type of electrical power available and the type of alarm or shutdown device used. Typical wiring diagrams for the popular Tattletale amunicators and magnetic switches are included in this instructions. If a drawing of the specific

ic switches are included in this instructions. If a drawing of the sp model number is enclosed, refer to that drawing for specific wiring.



CAUTION: Certain dangers to human safety and to equipment may occur if some equipment is stopped without pre-warning. It is recommended that monitored functions be limited to alarm only or to alarm before shutdown.

INSTALLATION INFORMATION

Mounting the Panel

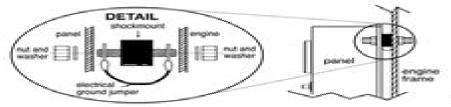


WARNING: Perform mounting operation with power source OFF. Disable the engine so it cannot start. Remove the battery ground cable.

- Select a suitable mounting location on or near the engine. The location should provide easy access to the panel and provide unobstructed viewing of the Swichgage instruments.
- 2. The mounting location should avoid shock and vibration to the extent possible. Generally, a location low on the engine is preferred. Avoid mounting on top of the engine if possible. Shockmounts are suggested where possible to damper shock and vibration.

IMPORTANT: Use of improper shockmounts can accelerate the shock and vibration effects. Consult the factory if you are in doubt.

NOTE: If shockmounts are used, it is suggested that a separate ground wire be attached to the panel assembly and to the engine. This assures electrical continuity between the Swichgage contacts and the battery ground across the shockmounts (see mounting detail below).



Connecting the Pressure Swichgage

- Pressure tubing is generally not provided. Use of good quality flexible pressure tubing/hose and fittings is strongly suggested. Use at least ³/16 in. (5 mm) LD, tubing. If using copper or rigid tubing, install at least 12 in. (305 mm) flexible hose from the pressure Swichgage instrument to the rigid tubing. This prevents damaging vibration from reaching the Swichgage instrument.
- Connect the pressure tubing to the ¹/8-27 NPT pressure port of the pressure Swichgage instrument. Use of a non-handening thread sealing compound is recommended although the thread is "dry seal". Be sure that thread sealant does not foul the pressure orifice.

NOTE: The orifice can be removed for cleaning.

Connect the pressure tubing to the pressure galley of the engine. Generally this is at the oil filter housing. Use of non-hardening thread sealant is recommended. Avoid droops or sink traps in routing of the pressure line.

Installation Accessories

Tools and equipment needed:

- Thread scalant or Teflon* tape.
- · Straight edge screwdriver (medium).
- · Wire stripping and terminal crimping tools.
- · Electrical wire for use on power connections.
- Adjustable wrench or open end wrench set.

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