



## ENGINE SYNCHRONIZER

1. Recheck all wire connections to be certain they are clean and tight, and coming from the correct terminals off the tachometers. Be sure the two plugs are pushed on properly.
2. You must have 12 vdc minimum on the module IGN terminal, and the GND terminal must be grounded.
3. If the gauge on the dash is always “pegged” to port or starboard, usually it is the module that is at fault. It probably will need replacement.
4. The module can be checked by measuring certain voltages while the system is running. Connect a volt ohm test meter to the dash gauge as shown to either port or starboard side. With both ignitions on but the engine not running, the test meter should read about 5 volts either side. At 2000 RPM on the starboard engine (zero RPM on the port), the test meter will read 9 volts on the starboard side and 2 volts on the port side. Repeat the test by swapping actions to the port engine. All voltages approximate.
5. To check gauge only (Fig. 1), place a 130 ohm 1/2 watt resistor from port gauge terminal to ground. Connect the gauge ignition terminal to positive voltage source. The pointer will deflect about 45 degrees. Repeat the test by swapping actions to starboard side.
6. The system is only energized when the engine ignition switch it is connected to is turned on.
7. The gauge pointer will point towards the “faster” engine, if wired as shown above.
8. One module can operate one gauges. Damage to the module will result if more than one gauge is used.
9. The same gauge and harness can be used on various type engines. However, the module must be changed with engine types, gasoline or various deisel types. The following module is available for replacement: 1508370P... Gasoline stern drive & inboard.
10. The gauge can be zeroed by adjusting the module’s null potentiometer under the red hole plug (with both ignitions on).
11. Every Teleflex Marine gauge can be identified by the part number printed on the side of the housing. Please reference this part number when contacting technical service or replacing the original gauge.