

KOSO RX1N / PGO Gauge Cluster

Thank you for the purchase of this wonderful gauge! Here is some background information about the PGO gauge. When manufactured by Koso, it was called the RX1N. Recently, Koso has expanded their operation and began manufacturing Original Equipment Manufacturer (OEM) parts for other companies such as PGO, AEON, Stage 6, Takegawa and more. The PGO gauge by itself is not "Plug & Play". You must use the included custom wire adapters for it to work properly. This allows the PGO to function just like an OEM Yamaha gauge with some additional features listed below.

- Analog RPM
- Digital speed display (MPH/ KPH)
- Battery voltage meter
- Fuel gauge - with warning light for low fuel
- Adjustable speed warning - Large flashing red LED
- Odometer
- Trip odometer
- Digital Clock
- Ambient temperature sensor
- Adjustable LCD contrast
- Nighttime, white illuminated display
- OEM style connectors with custom adapter Requires three additional wires to splice in to Engine Control Unit (ECU) harness (12v power, Tachometer, and night illumination)



Picture to the left, shows the gauge installed on the original mounting bracket. The gauge is secured to this bracket by two bolts. Make sure the rubber anti-vibration boots supplied with the kit are installed. The PGO gauge is waterproof, so it is safe to wash the gauge and ride in the rain. Install the rubber boot for the wire harness correctly to protect the plug/wire harness from moisture/dirt. Cover exposed wires with elastic non-conductive tape.

The gauge plugs in directly to the stock wire harness near the ECU. This is where the three wires you need to connect are located. One red wire is for



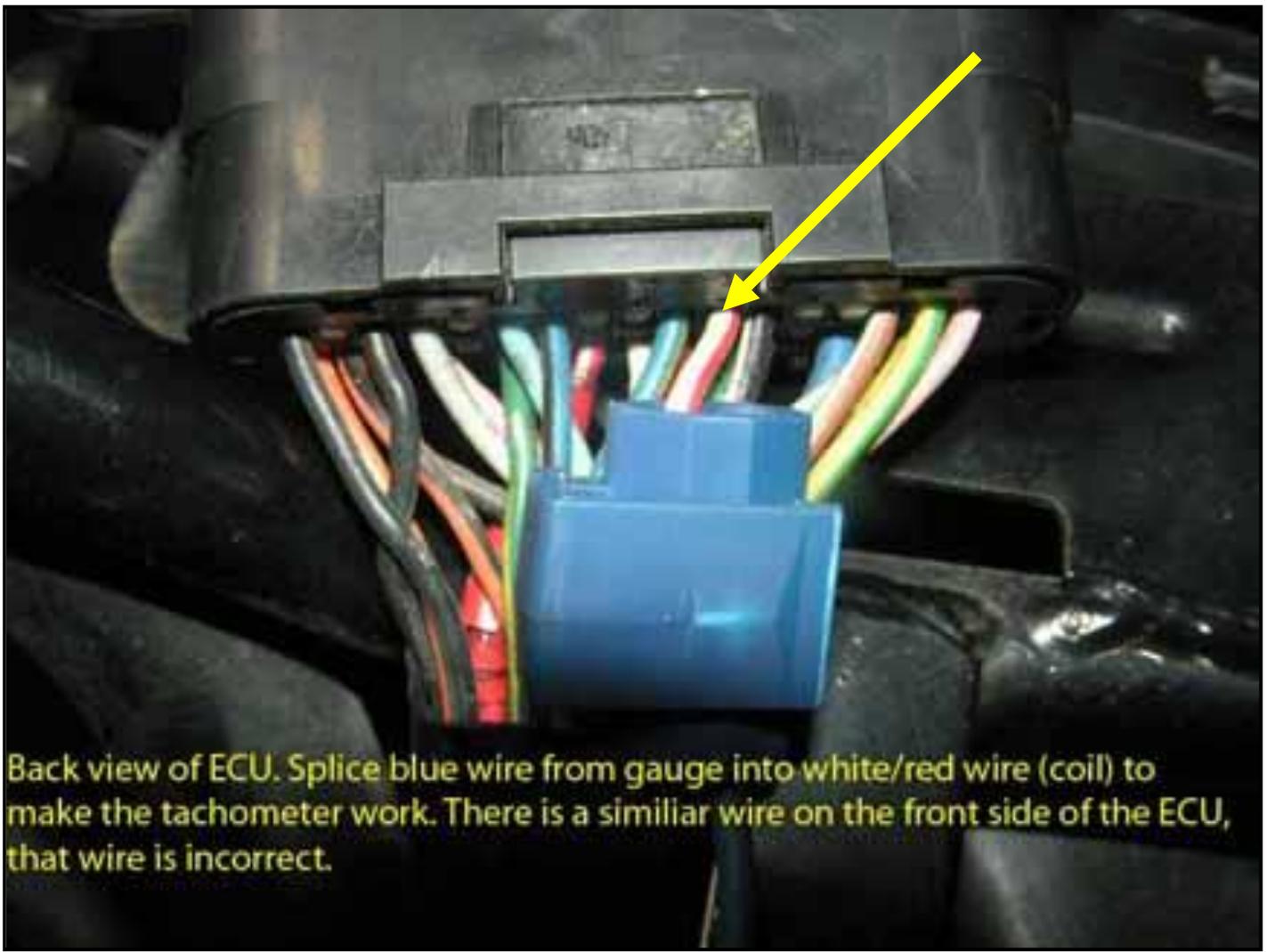
constant power for the internal clock and extra features; the second wire is blue and it connects to the coil wire to allow the tachometer to function; the third wire is white and attaches to the white wire on the white OEM plug.

Note: Some on PGO gages the color of the wire is not red or blue. Please read the hand written instructions on the wire.

CAUTION: Disconnect battery power supply before beginning installation!

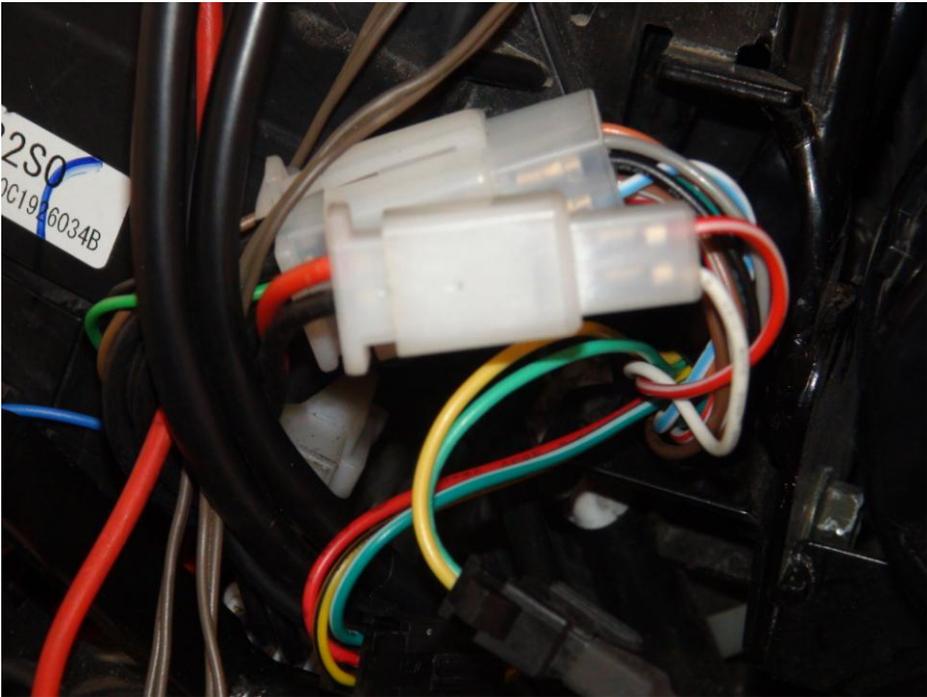
INSTALLATION

1. The blue wire from the gauge connects to the white/red wire found on the back of the ECU. You must remove the ECU to gain access to the wire harness. The wire harness has two rows of wires. The white/red wire for ignition is on the SECOND row, or back row.



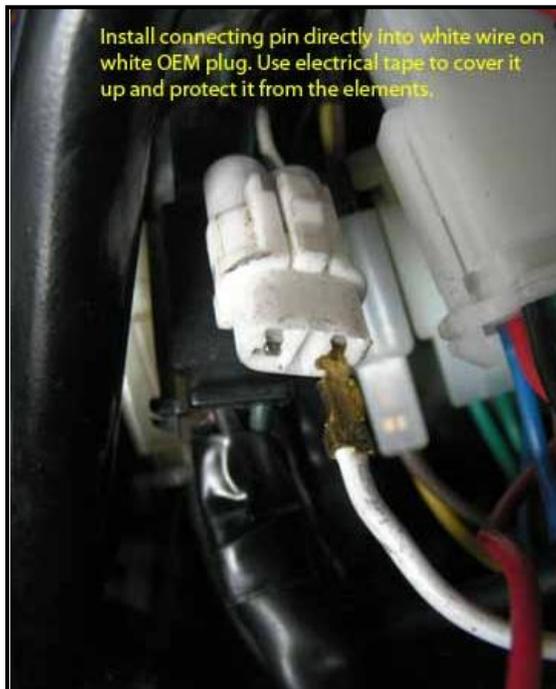


2. Red or Yellow wire supplies constant power for memory purpose and other features, such as clock and timer for the speed/distance test. The red wire located behind the ECU is the constant power for ignition. Tap into this red wire on the red plug. Connect the red power wire with black wire connector to the plug with a red/white (thin stripe) wire and white wire.





3. The metal prong on white or blue wire goes to the extra white Yamaha plug that is not used. Connect white to white and apply electrical tape to cover exposed portions



4. Ambient air temperature sensor installs under the wheel faring



5. Replace the speedometer cable with an electronic type wire.





ADJUSTMENTS & FEATURES

1. Press and hold down the “adjust” button will switch KMH to MPH.
2. Press and hold down both “adjust” and “select” buttons at the same time to enter the setup mode. In the setup mode, you can adjust the time and speed warning. The red led will illuminate once you reach the pre-determined maximum speed.
3. Press down both the “adjust” and “select” button quickly and the gage will enter into the speed/distance test.
4. Every 621 miles the red oil warning light will illuminate. This reminds it is time to change the motor oil. To reset the reminder, simply hold “adjust” for five seconds and the light will flash. Once the light is flashing, press “select” to confirm the oil change reset and the red light will stop flashing until the next 621 miles.