

SAVE THESE INSTRUCTIONS

GREAT PLAINS INDUSTRIES **GPI**

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To the owner...

Read these instructions and understand them completely before beginning the installation of your mechanical meter pulser kit. There are inherent dangers whenever flammable fuels and electricity are in close proximity. Static electricity as a source of sparking is always a concern. Use caution when installing this kit, as there may be residual fuel in the pump head, fittings and the meter. Clean up spills immediately.

This kit contains:

1) Pulser

(1) Instructions for installing the pulser

During the installation process do not discard any removed parts as they will be used when the unit is reassembled. The following steps will guide you through the procedure necessary to successfully install the mechanical meter pulser kit.

⚠ WARNING

Disconnect electrical power to the system before beginning any repair or maintenance.

As with any system that has had updates or maintenance performed, you may need to calibrate your meter for your conditions and type of operation. Refer to the meter owner's manual for calibration instructions.

Note: The mechanical meter pulser kit will fit the following models: MR5-30, QM240, QM150, and QM40

The images in this manual display installation on the QM40 meter

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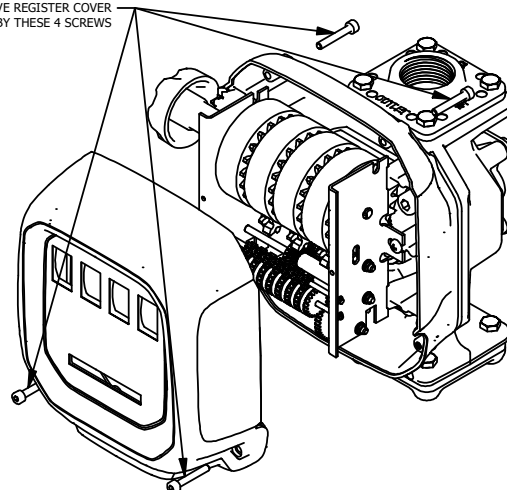
Installation

QM40 Meter	1
QM40-RD Remote Dispenser	2
Meter Reference	4
Wiring Reference	4

INSTALLATION: QM40 METER

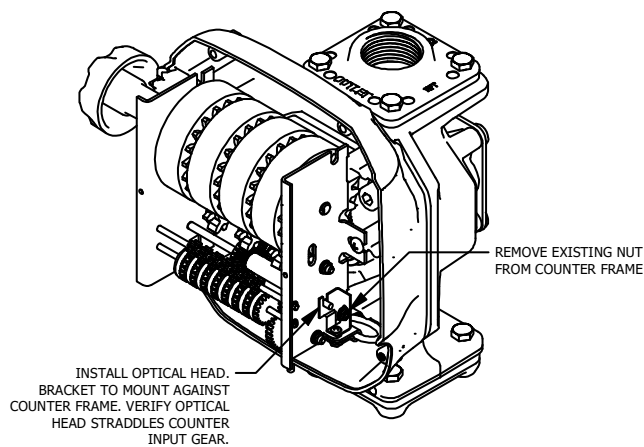
STEP 1

REMOVE REGISTER COVER
HELD BY THESE 4 SCREWS

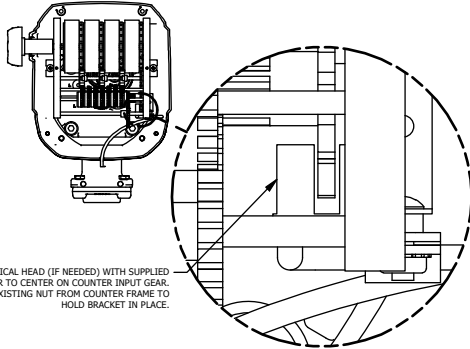


REMOVE FRONT FACE

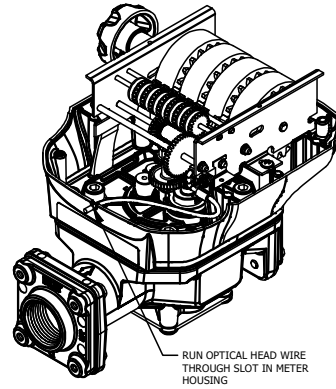
STEP 2



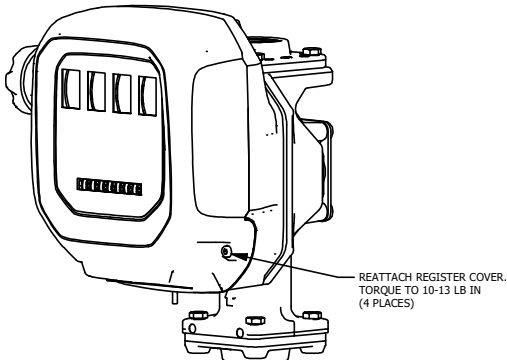
INSTALL OPTICAL HEAD

STEP 3

INSTALL OPTICAL HEAD CONT'D SHIM IF NEEDED

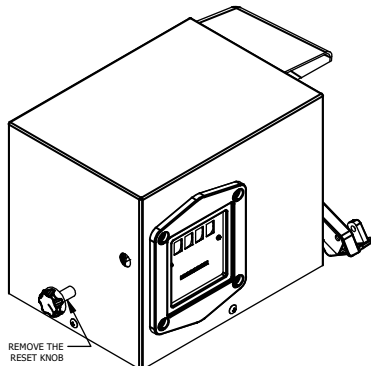
STEP 4

OPTICAL HEAD WIRE

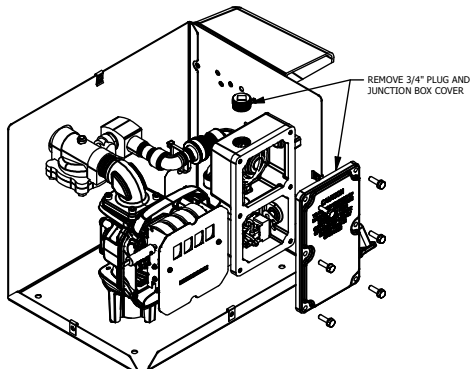
STEP 5

REPLACE FRONT COVER

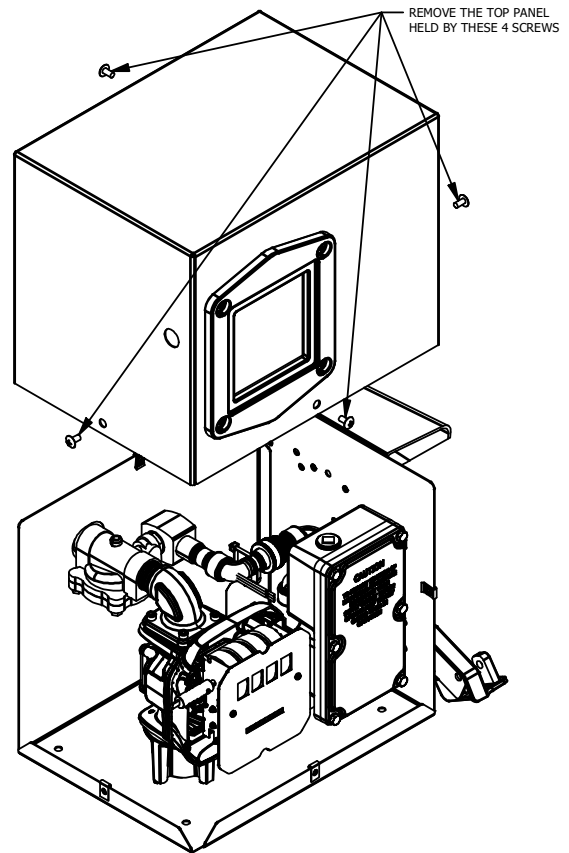
INSTALLATION: QM40-RD REMOTE DISPENSER

STEP 1

REMOVE RESET KNOB

STEP 3

REMOVE JUNCTION COVER AND PLUG

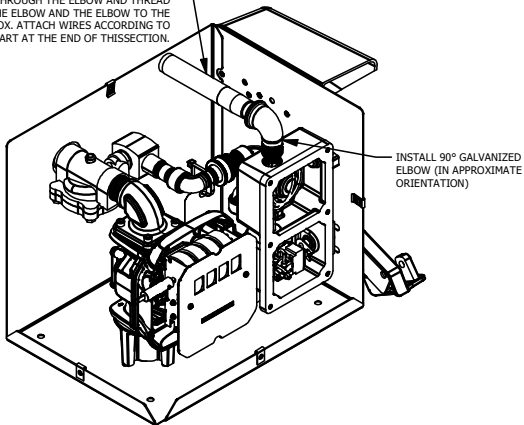
STEP 2

REMOVE FRONT PANELS

INSTALLATION: QM40-RD REMOTE DISPENSER CONT'D

STEP 4

INSTALL THE PULSER BARRIER. CAREFULLY ROUTE 5 LEAD WIRES THROUGH THE ELBOW AND THREAD BARRIER TO THE ELBOW AND THE ELBOW TO THE JUNCTION BOX. ATTACH WIRES ACCORDING TO CHART AT THE END OF THIS SECTION.



INSTALL 90° GALVANIZED ELBOW (IN APPROXIMATE ORIENTATION)

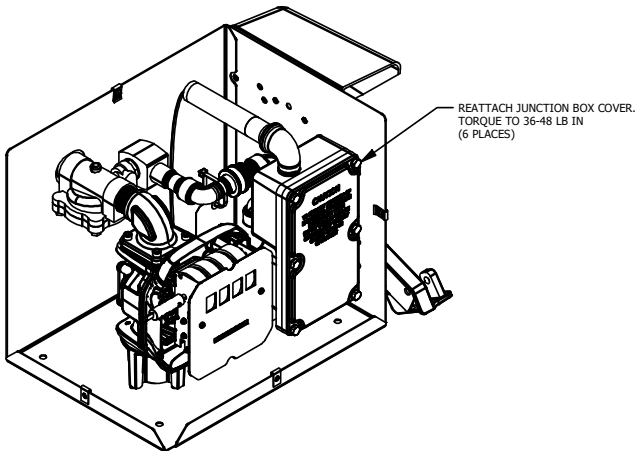
INSTALL PULSER BARRIER

STEP 5

INSTALL THE OPTICAL HEAD

REFER TO STEP 2 AND STEP 3 FROM
"INSTALLATION: QM40"
ON PAGES 2 AND 3

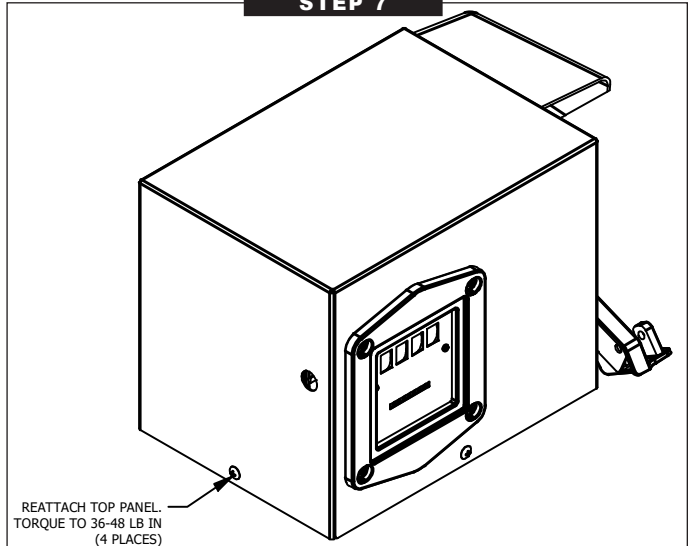
STEP 6



REATTACH JUNCTION BOX COVER.
TORQUE TO 36-48 LB IN
(6 PLACES)

REINSTALL JUNCTION BOX COVER

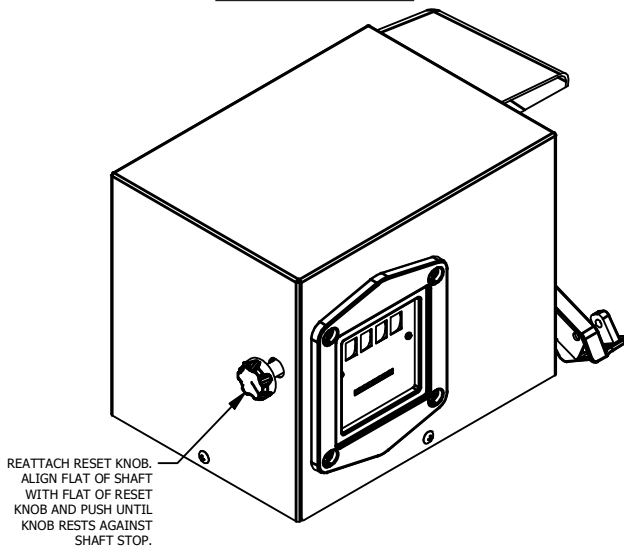
STEP 7



REATTACH TOP PANEL.
TORQUE TO 36-48 LB IN
(4 PLACES)

REINSTALL FRONT PANELS

STEP 8

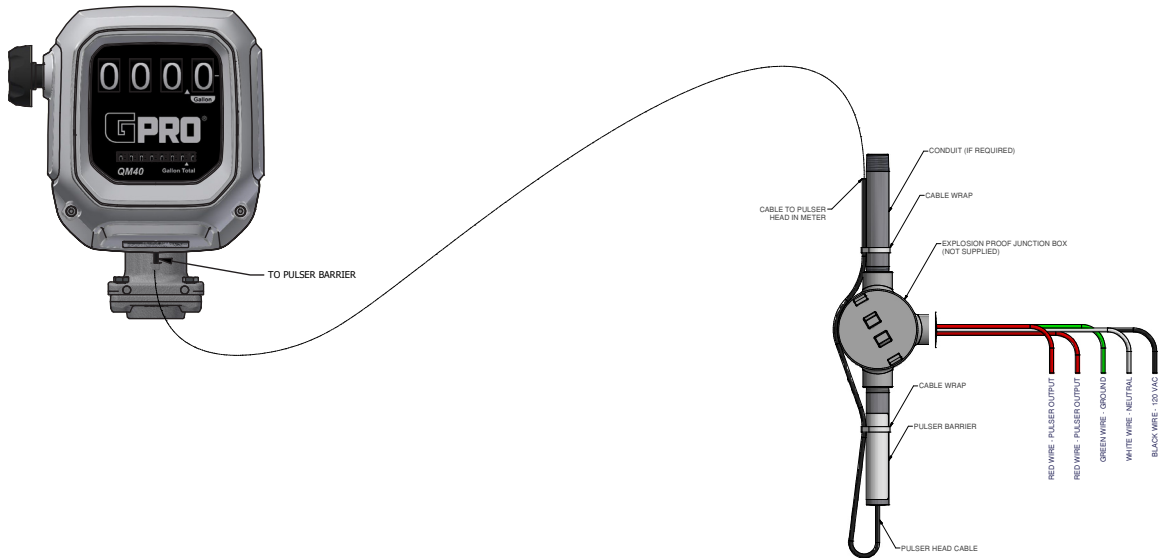


REATTACH RESET KNOB.
ALIGN FLAT OF SHAFT
WITH FLAT OF RESET
KNOB AND PUSH UNTIL
KNOB RESTS AGAINST
SHAFT STOP.

REINSTALL RESET KNOB

METER REFERENCE

Wiring reference for pulser barrier & optical head.



WIRING DIAGRAM (DISPENSER)

Only for use with 115-volts AC 60 HZ

All wiring and conduit runs must conform to National Fire Protection Association (NFPA) codes 30 and 70 or Canadian Electric Code C22.1 as applicable.

If erratic operation of the pulser is encountered, it may be due to electrical noise or fluctuations of the power lines. This type of problem may be eliminated by powering the pulser with separate power lines not connected to motors or solenoids, or by adding noise suppressors to each motor and/or solenoid.

All appropriate wiring practices as outlined by the National Electrical Code and state and local codes should be followed.

