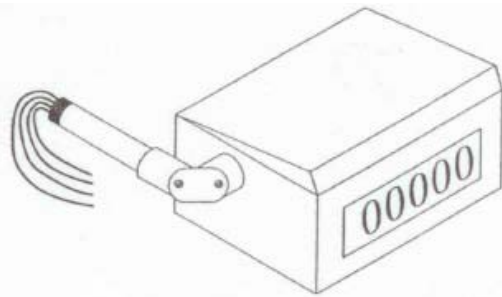
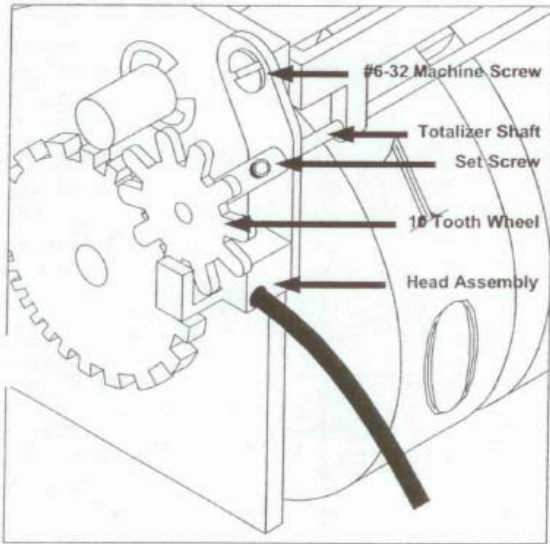
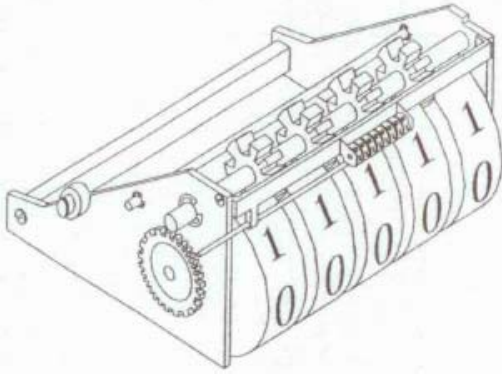


Model 788 Pulser



INSTALLATION

1. Follow the manufacturers instructions for removing the register mechanism from the case.
2. After determining the best location for the pulser barrier and associated conduit fittings, cut a hole for the conduit fitting with a hole saw or chassis punch.

IMPORTANT: Make certain that the head cable will reach to the front of the case where the totalizer shaft extends, and not interfere with any of the moving parts of the register.

3. Route the head assembly through the conduit fittings and case. Make up the barrier and conduit assembly and attach it to the case in the desired location.
4. Place the register mechanism on top of the case and remove the flat head #6-32 machine screw located above and to the left of the extended totalizer shaft. This screw is used to hold the totalizer frame in position and will be replaced by the 3/4" long pan head #6-32 machine screw which is included with the pulser.
5. Insert the totalizer shaft through the mounting bracket of the pulser head assembly and capture the small 10 tooth wheel on the shaft within the sensor gap as well. The shank of the wheel which contains the locking set screw should bottom out against the plastic mounting bracket, with the teeth of the wheel free to rotate in the center of the optical head assembly.
6. Attach the head assembly to the register frame with the 3/4" pan head #6-32 machine screw.
7. Using a small allen wrench, tighten the set screw of the wheel on the shaft. Be careful not to strip out the threads of the plastic wheel by over-tightening. The shank of the wheel should be against the bracket, which will place the wheel in the center of the sensor gap for proper alignment.
8. Assemble the register back into the case, being careful to route the head cable clear of any moving parts.
9. Place the cover or ticket printer over the register and complete the wiring of the installation.

IMPORTANT: THE PULSER MAY FAIL TO OPERATE WITH THE COVER REMOVED SINCE THE OPTICAL SENSOR IS SENSITIVE TO SUNLIGHT. OPERATION OF THE PULSER SHOULD ONLY BE ATTEMPTED WITH THE COVER IN PLACE.

10. The two RED wires should be attached to the equipment to be pulsed. These two wires should be connected in the same manner as the wires of a mechanical pulser such as the VR 1871.
11. The other two wires provide power for the pulser. Connect them according to the table below. Pay particular attention to the Part Number of the pulser you are installing to match the proper color wire to the proper connection.

Pulser Type (Part #)	Black Wire	Black Wire	White Wire	Orange Wire	Red Wire	Red Wire	Green Wire
110 VAC (4000788)	110 VAC Hot	N/A	Neutral	N/A	Pulse Output	Pulse Output	Ground
220 VAC (4000788-22)	220 VAC L1	220 VAC L2	N/A	N/A	Pulse Output	Pulse Output	Ground
12 VDC (4000788-12V)	DC Ground	N/A	N/A	+12 VDC	Pulse Output	Pulse Output	Ground

Pulse outputs (red wires) will pulse any voltage from 5 to 170 VAC or VDC.

N/A = Not applicable for this version

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.

Contact OPW Fuel Management Systems in case of trouble or unusual application. Telephone 708-485-4200 FAX 708-485-7137