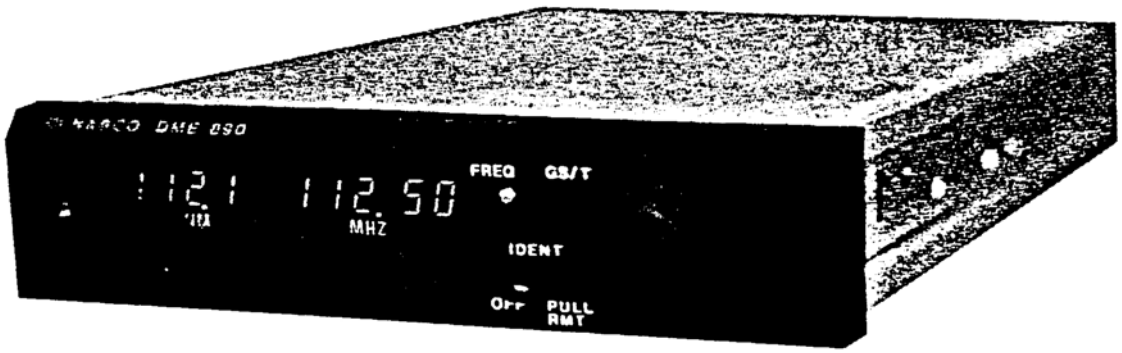
NARCO AVIONICS
DME 890
DISTANCE MEASURING EQUIPMENT



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OPERATION

This discussion is directed to the installer, and to the pilot who is to perform the flight test of the Unit.

Unless connected to a Remote NAV Receiver or an RNAV, the displays are controlled directly from the:

KHz/MHz continuous rotation knobs (CW/CCW)
OFF (ON/OFF) switch portion of the IDENT's potentiometer and its auxiliary RMT switch
FREQ GS/T (toggle) mode switch

When a Remote NAV Receiver or a RNAV have control, the RMT or RNAV display will light, as applicable.

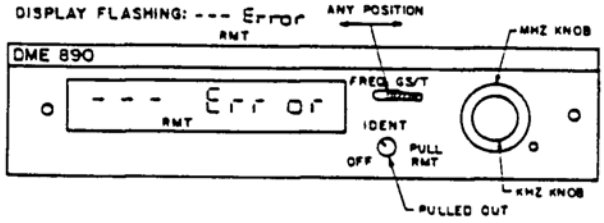
TYPICAL DISPLAYS:

ERROR

This display is the result of the PULL RMT switch being in the OUT position and there is no Remote NAV Receiver connected to the DME.

OR

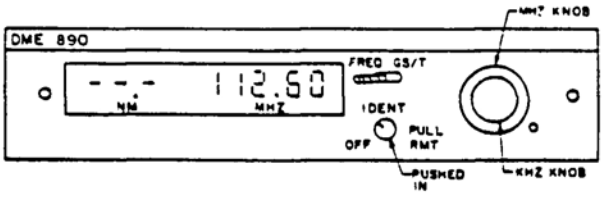
The Remote NAV Receiver is connected, however, the NAV is not providing a valid code to the DME's microprocessor.

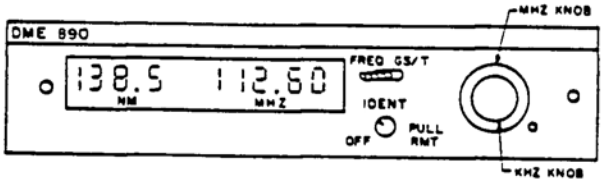


Toggle Switch Set To FREQ

As either frequency knob is rotated the NM portion of the display bars and the MHz portion identifies the frequency set at that time.

Once rotation ceases, and after lock-on (1 second or less), the NM portion displays the distance to the station.



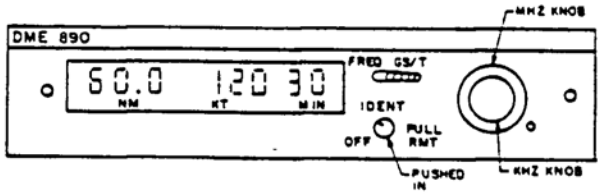


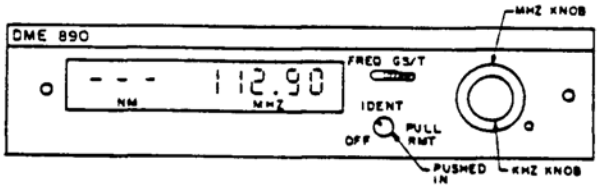
Toggle Switch Set To GS/T

In the GS/T mode and locked-on to a station NMs, KTs, and MINs will be displayed.

Frequency may be changed while in GS/T mode. Rotation of a frequency knob causes the NMs to bar and the frequency set to appear.

When locked-on to the set station the display immediately provides NMs and within 4 seconds KTs and MINs is presented.





2.6 MECHANICAL INSTALLATION

This Section provides the mechanical installation steps for mounting the tray and the rear connector.

2.6.1 Tray Lock

The tray has a built-in spring locking device. When the Unit is positioned into the tray's track and slid into the tray the tension (lock) spring contacts the Unit. When the Unit's connector(s) touch the tray connectors an additional set of tension springs can be felt holding back the inward direction of the Unit. At this point using firm pressure the Unit will continue inward approximately a half-inch stopping as the forward tension/locking spring "clicks" into position. The Unit is now locked in place.

Removal of the Unit requires an extraction tool. Place the tool into the small hole provided in the right corner and push into the hole. This action clears the forward tension spring from the locking detent, and due to the rear springs, the Unit will "pop" outward an inch or two. The Unit is now disconnected from the rear connector(s) and the tray lock, and is ready to be slide out of the tray.

2.6.2 Mechanical - Tray

Upon removing the Unit from its shipping container, the Unit must be removed from its mounting tray.

Position the assemblies on a flat surface, place a block behind it as shown in Figure 2-9. Insert the key straight into the key hole in the trim panel, exert sufficient pressure to release the spring lock. Upon release the tension (eject) springs will "pop" the Unit outward, freeing it. SAVE THE KEY.

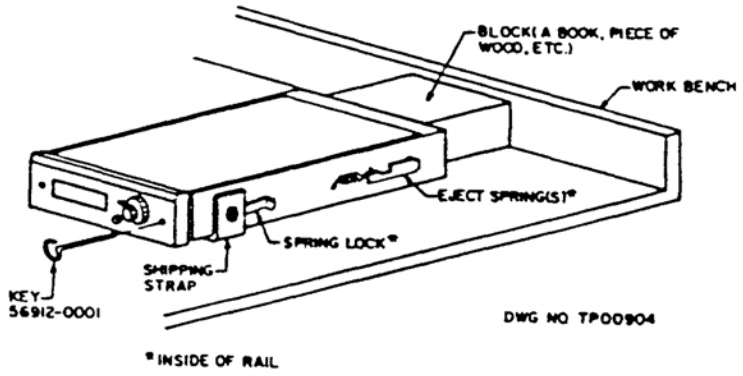


FIGURE 2-9. TRAY LOCK