

INSTALLATION NOTES: READ ME FIRST!

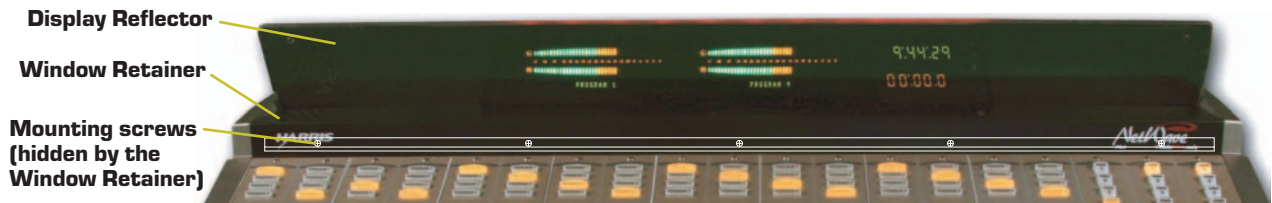
Two tools are required to upgrade the NetWave Meter Display: a #1 Phillips screwdriver and a 2mm hex driver (70-57, in the optional NetWave toolkit). Some type of padding material (bubble wrap, cleaning cloth, etc.) is needed to protect the Dual Fader panels during this procedure. Also, some type of finger protection is needed to remove and reinstall the lenses to prevent fingerprints (or to wipe them off after reinstalling the lenses).

It will take fifteen to thirty minutes to perform this upgrade (to remove the current meter panel, remove the meter boards and lenses from that meter panel and move them, along with the cue speaker, to the new Quad meter panel) and install the new meter assembly into the console.

Kit parts are identified on page 3.

QUAD METER KIT INSTALLATION PROCEDURE

- 1 Remove power from the console by turning off the 99-1205 supply or by unplugging the In-Line power supply. A technical ground wire must be attached to the chassis, so that the chassis can be used to dissipate static charges before removing and reinstalling any circuit boards.
- 2 If installed, remove the Display Reflector. Open up the rear cover to access the two Phillips screws that hold the Reflector in place from the rear. They go through the Reflector into the meter panel. Even if the Reflector is not installed, these screws must be removed. The Reflector will not be reused. Additional disassembly information is shown on page 2-6 of the NetWave manual.



- 3 Remove flat head Phillips screws holding the Window Retainer to the meter panel. Lift off the Retainer. On the NetWave-16, the Retainer is not reused. On the NetWave-24, set aside the Window Retainer for reuse on the NetWave-24 Quad Meter panel.



- 4 Lift off the Meter Window from the meter panel. It is not reused.
- 5 Remove, and retain, the flat head Phillips mounting screws (just above the Dual Fader panels). They fasten the meter panel to the chassis and are revealed after the Window Retainer is removed.

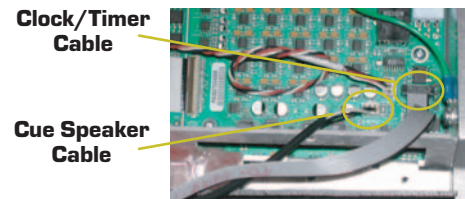


- 6 Lay padding material on the Dual Fader panels. Lift the meter panel assembly up, then rotate/flip it forward to set it facedown onto the padding material.



Step 6: Padding Material set on the Dual Fader Panels and the Meter Panel Removed

- 7 On the Monitor and Output board, unplug the cue speaker cable from J25 and the clock/timer cable from J23. Cut off any tie wraps holding the cue cable to the current meter panel. If a timer reset or ESE cable is connected to J4 on the clock/timer board, unplug it.



Step 7: Unplugging the cue speaker and clock/timer board cables

- 8 Remove the cue speaker by removing the two Phillips screws and clips. Set the cue speaker, screws and clips aside for reuse.

- 9 Move the original meter panel off to the side of the console. Set the Quad meter panel in its place, facedown onto the padded material, with the round cue speaker hole on the left end.

- 10 Fasten the cue speaker to the Quad meter panel using the parts removed in step 8, such that the speaker terminals face the new meter board (see the Step 13 illustration).

- 11 Loosen the five screws holding the new meter board to the Quad meter panel.

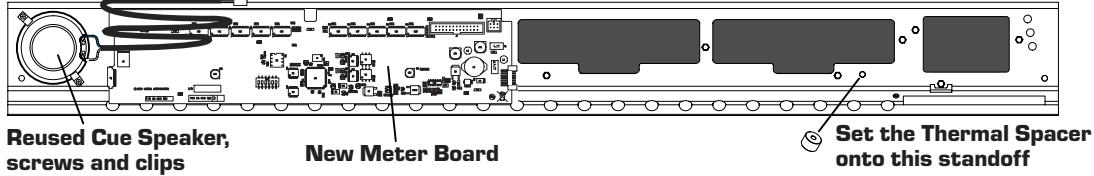
- 12 Remove, and retain, the Phillips screws holding the two boards to the current meter panel (Note: there are five screws on the meter board and three DIFFERENT LENGTH screws for the clock/timer board).



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- 13** Carefully unplug and separate the clock/timer board (by its edges only) from the meter board. Set the clock/timer board off to the side of the original meter panel. Lift the meter board (by its edges only) up and off of the current meter panel. A thermal pad and thermal spacer on the back side of the board may come up when the board is removed. Separate the spacer and thermal pad. Move the thermal spacer to the Quad meter panel and place it on its stand off, as indicated below. Peel off the old thermal pad material from the meter board, replacing it with the new thermal pad included in the kit. Set the meter panel next to the clock/timer board.

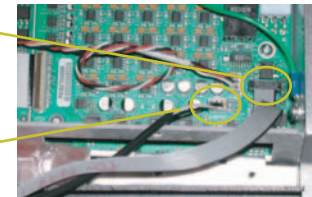
Step 13: Installing the Thermal Spacer and Meter Board into the Quad Meter Panel



- 14** Move the lenses from the original meter panel to the Quad meter panel using the same orientations as on the original meter panel. Wipe off any fingerprints from the lenses after they are installed in the Quad meter panel.
- 15** Install the meter panel in the Quad meter panel. Carefully plug it horizontally into the mating connector on the meter board in the Quad meter panel. Loosely fasten the meter board to the panel using the five screws removed in step 12.
- 16** Install the clock/timer board in the Quad meter panel. Carefully plug it horizontally into the mating connector on the meter board and fasten it firmly using the three screws removed in step 12. Ensure the three boards are firmly seated into one another's connectors while tightening all thirteen board screws.

- 17** Plug the cue speaker cable into J25 on the Monitor and Output board. Tie wrap excess cable and lay it loosely across the three boards.
- 18** Plug the clock/timer cable into J23 on the Monitor and Output board. Make sure the other end is firmly seated in J6 on the clock/timer board. Plug any timer reset/ESE cable into J4 on the clock/timer board.

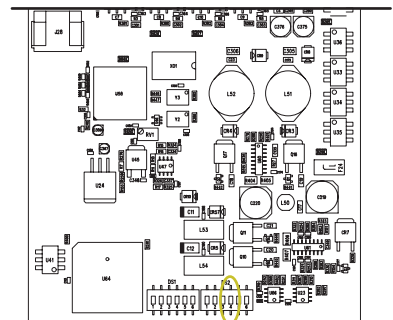
J23: Clock/Timer Cable



J25: Cue Speaker Cable

Step 17 and 18: Plugging in the cue speaker and clock/timer board cables

- 19** Check the meter board setup switch (DS3) settings (default is for all switches set to off). Typically, both meters use the same settings. Page 2-9 of the NetWave manual lists the functions for each DS3 switch.
- 20** Lift the meter panel up and rotate/flip it to set it onto the chassis. Make sure all cables are free and are not pinched or under any strain while setting the meter panel into position.
- 21** Fasten the meter panel to the chassis using the screws removed in step 5. The padding material is no longer needed.



DS2, switch 4

Step 22: Accessing DS2 (below the Monitor panel) to set switch 4 to on

- 22** Remove the Monitor panel (six hex screws) to access the global setup switches on the front edge of the Monitor and Output board. Change switch DS2-4 from Off to On to activate the new Quad meter board. Page 2-10 of the NetWave manual details the switch functions.
- 23** Replace the Monitor panel (fasten six hex screws).
- 24** Before installing the remaining parts, turn the console on and verify that the meter panel parts are working properly. The displays will be reversed, but can still be seen to work. Verify that the clock and timer both light up and that the clock shows the correct time. Press the Timer Control buttons to verify the timer is working. Using an input channel with a known good audio source, press Cue to verify the cue speaker is working. The right hand meter may also switch to Cue, if so, verify it has level and shows CUE under the meter. Assign that channel to all four Program buses and turn on the channel. If Cue is still active, turn cue off. Select PGM 4 on the Aux meter selector and verify that PROGRAM 1 thru 4 are shown on the meters.

- 25** Lay the new Meter Window onto the meter panel, aligning the three clock set holes and screw holes to the meter panel. The window will be held in place by the Window Retainer.
- 26** Set the Window Retainer onto the meter panel and window. Fasten it place using the screws removed in step 3.
- 27** Set the Reflector into its slot at the back of the meter panel. Install the two screws removed in step 2 to hold the Reflector in place.

This completes the installation of the Quad meter panel. The unused parts from the original meter panel can be discarded or recycled.

QUAD METER UPGRADE PARTS IDENTIFICATION, FOR NETWAVE-16 & NETWAVE 24

Meter Reflector
80-1984-16D (NetWave-16)
80-1984-24D (NetWave-24)



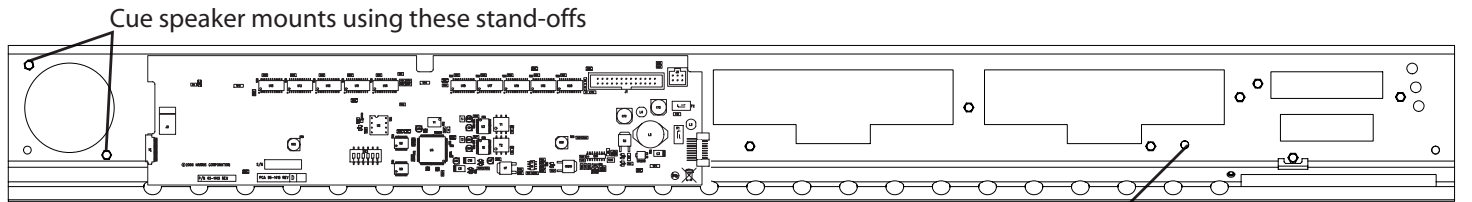
Window Retainer
950-6000-723 (NetWave-16)
* 950-6000-713 (NetWave-24)



Meter Window
80-1983-16D (NetWave-16)
80-1983-24D (NetWave-24)



Quad Meter subassembly
** 90-1990-16Q (NetWave-16)
** 90-1990-24Q (NetWave-24)



Thermal spacer goes onto this stand-off

80-1995
(Thermal pad)



* 80-1999
(Meter Lens, x2)



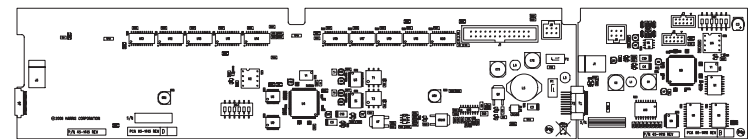
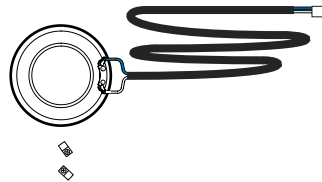
* 950-6000-716
(Meter board thermal spacer)



* 80-2119
(Clock/Timer Lens)



* 90-1997
(Cue Spkr assy
with two screws
and clips)



* 90-2129
(Meter Board with
five screws)

* 90-2130
(Clock/Timer Board
with three screws)

* Part reused from the original meter panel

** Subassembly consists of:
950-6000-718: meter panel (NetWave-16)
950-6000-719: meter panel (NetWave-24)
80-1999: Meter Lens (x2)
80-1995: Thermal pad
950-6000-716: Thermal spacer
90-2129: Meter Board