



Color TFT LCD Monitor

MM56A



Owner's Manual

Released: 02-11-04

128-6544
1 of 12

EXPLANATION OF GRAPHIC SYMBOLS



The lightning flash with the arrowhead within a triangle is intended to alert the user that parts inside the product are



The exclamation point within a triangle is intended to alert the user that important operating and servicing instructions

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT OPEN



CAUTION:

1. This product is designed to operate with a 12 volt, negative ground battery system.
2. Disconnect the ground wire from the battery terminal before connecting the electrical system. Refer to the electrical connection diagram to avoid wrong connection of the electrical system.
Always use authorized service center for service assistance.
3. Do not operate the monitor at temperatures below 32°F (0°C) or above 104°F (40°C).
4. Keep the monitor clean and dry.
5. Never attempt your own repairs. This unit should be installed and repaired by qualified technicians or service personnel.
6. Do not drop the monitor or expose to strong impacts.
7. Do not expose to direct sunlight for extended periods of time.
8. Use proper insulation material to prevent short-circuiting of the supply system.

IMPORTANT

An LCD panel and/or video monitor may be installed in a motor vehicle and visible to the driver if the LCD panel or video monitor is used for vehicle information, system control, rear or side observation or navigation. If the LCD panel or video monitor is used for television reception, video or DVD play, the LCD panel or video monitor must be installed so that these features will only function when the vehicle is in 'park' or when the vehicle's parking brake is applied.

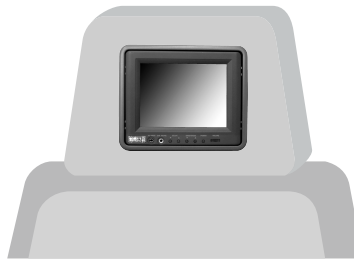
An LCD panel or video monitor used for television reception, video or DVD play that operates when the vehicle is in gear or when the parking brake is not applied, must be installed to the rear of the driver's seat where it will not be visible, directly or indirectly, to the operator of the motor vehicle.

A. Precaution:

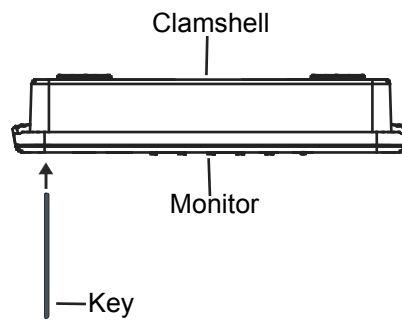
1. Before installation, verify that it will not damage electrical wires, fuel lines, brake lines, hoses, exhaust system components or any other items that will impair the operation of the vehicle.
2. Ensure the cable has already been pulled through the supporting pipe before installing the base into the headrest. Ensure there is no foreign material trapped inside the enclosure before installing the monitor into the base.
3. Tighten all screws/bolts/nuts securely for installation.
4. To avoid electrical hazards, do not disassemble the cabinet of the monitor.
5. Use only the supplied DIN cable. Disconnect the cable from the signal source before disconnecting it from the monitor, after turning off the whole system.
6. Do not use gasoline, thinners or other thinning liquids to clean the unit. Remove dust and stains with a damp cloth.

B. Installation:

Front View



Top View



1. Installation will vary from vehicle to vehicle, as headrests in vehicles are not standard.
2. This unit is intended for installation by professional installers.
3. The kit consists of the screen assembly, a clam shell housing, a trim ring, 1 key to remove the screen from the housing, and a wiring harness.

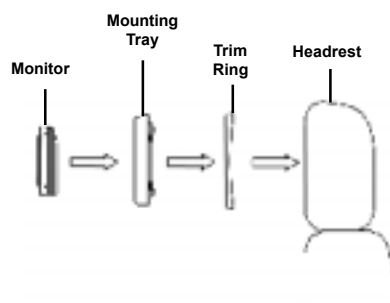
Headrest Mounting:

- 1) Remove the headrest from the vehicle for easiest installation.
- 2) Lay headrest on a flat surface.
- 3) Center trim collar on headrest as shown.

NOTE: Depending on the angle of the headrest, the Trim Ring and housing may be mounted upside down.

- 4) Using a Permanent Marker, mark headrest material along the interior of the Trim Ring.

- 5) Remove the Trim Ring and mark an "X" from corner to corner as shown.



- 6) Using the utility knife, cut the headrest material along the "X" lines. Do not cut the material along the other lines at this time.



- 7) This will leave you with an "X" cut as shown.



- 8) Pull the flaps up and cut the foam beneath the material to the proper depth. Cut all four sides of the foam.



- 9) Using your fingers, tear the foam out of the headrest leaving a recess where the shell will be inserted.



NOTE: At this point you will need to install the harness up through the area into the recess. It may be helpful to follow one of the posts and tie wrap it to the post for restraint.

- 10) Lay the flaps of the headrest material down into the recess and insert the Mounting Tray into the recess. Check for fit. If it does not fit properly, you may need to remove some more foam.

NOTE: The Mounting Tray will need to be secured to the headrest, either by using tie straps, screws, etc...



- 11) Guide the cable through the side opening of the Mounting Tray and plug it into the Monitor. Make sure the connector locks into place. Insert the Monitor into the Mounting Tray and secure the cable using tie wraps or screws



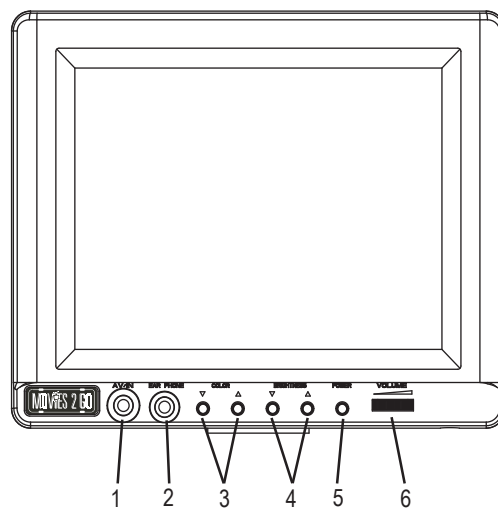
- 12) Turn the Monitor around and insert it into the Mounting Tray housing. Snap into place.



- 13) Connect the Monitor power input plug to a DC power source (Red plug +12 VDC, Yellow plug +12 VDC Constant and Black plug (-) to ground).
- 14) Connect the external video source output signal (from VCP/ DVD, TV Etc.) to the VIDEO IN jack. Test the system to verify proper installation.

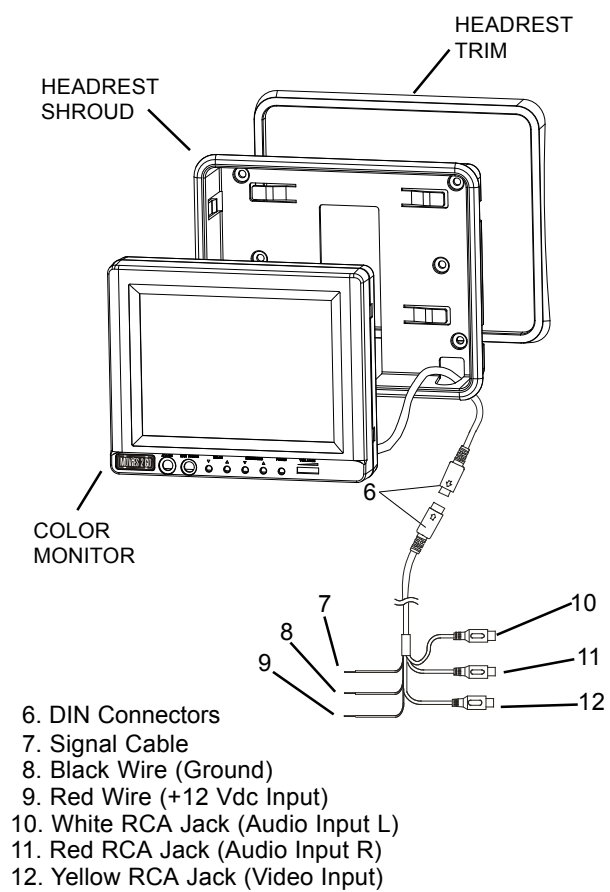
C. Controls/Indicators/Connectors:

Front View



1. AUX. Input Jack
2. Earphone Jack
3. Color Adjust Up/Down Buttons
4. Brightness Adjust Up/Down Buttons
5. Power On/Off Button
6. Volume Increase/Decrease Thumbwheel Control

Exploded View



D. Operation:

1. Connect the red monitor power input wire (9) to a DC power source (Red = +12 VDC), and the Black wire (8) to ground.
2. Connect the external video source output signal (from VCR, DVD, TV etc.) to the VIDEO IN jack (12).
3. Press power button (4) to turn the monitor on and off. The backlight for the button will intensify.
4. Adjust the volume increase/decrease thumbwheel (5) to adjust the volume level.
5. Press the Color (2) and Brightness (3) buttons to adjust the respective picture display characteristics.



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E. Specifications:

Display	5.6" Color TFT LCD
Resolution	960 (W) x 234 (H) Lines
Active Area	114.2 (W) x 83.5 (H) mm
Backlight	CCFL
Input Signal	NTSC/PAL(auto-switch) Composite video signal 1Vp-p/75ohm
Lamp Life	10,000 Hours
Audio Specifications:	
Input Impedance	10 K-Ohms
Audio Output	0.3 W Maximum
Earphone	16 Ohms/32 Ohms
Bandwidth	15 kHz
Input Level	1 Vp-p
Power Source	+12 VDC +/-15% (Ripple=0.5 Vp-p Max)
Power Consumption	8 Watts Max
Brightness	300 Nit Typical
Viewing Angle	
Top	30 Degrees
Bottom	10 Degrees
Left/Right	45 Degrees
Operating Temperature	32°F - 140°F (0°C - 60°C)
Storage Temperature	-4°F - 140°F (-20°C - +60°C)
Operating Humidity	85% RH Max.
Storage Humidity	85% RH Max.
Overall Dimensions	156.0W x 126.0H x 34.5D mm
Weight	500 Grams(16.0 Ounces)