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TME-M680

5.8-INCH WIDE VGA LCD MONITOR WITH BLACK BOX FOR REAR SEAT ENTERTAINMENT

TME-M680EM

EXTRA MONITOR FOR TME-M680

- **OWNER'S MANUAL**
Please read before using this equipment.
- **BEDIENUNGSANLEITUNG**
Lesen Sie diese Bedienungsanleitung bitte vor
Gebrauch des Gerätes.
- **MODE D'EMPLOI**
Veuillez lire avant d'utiliser cet appareil.
- **MANUAL DE OPERACIÓN**
Léalo antes de utilizar este equipo.
- **ISTRUZIONI PER L'USO**
Si prega di leggere prima di utilizzare
l'attrezzatura.
- **ANVÄNDARHÄNDELDNING**
Innan du använder utrustningen bör du läsa
igenom denna användarhandledning.

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WARNING



WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING.

Failure to do so may result in an accident.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

KEEP SMALL OBJECTS SUCH AS BATTERY OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE EMERGENCY BRAKE IS APPLIED.

It is dangerous (and illegal in many states) for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing.

PRECAUTIONS

Temperature

Be sure the temperature inside the vehicle is between +45°C (+113°F) and 0°C (+32°F) before turning your unit on.

Fuse Replacement

When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked.

Maintenance

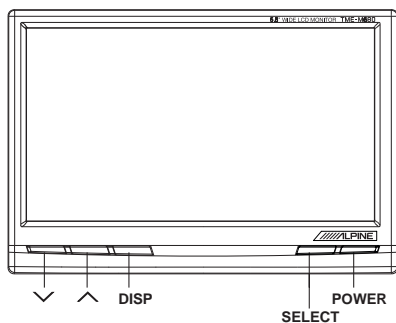
If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Installation Location

Make sure the TME-M680 & TME-M680EM will not be exposed to:

- Direct sun and heat
- High humidity
- Excessive dust
- Excessive vibrations
- After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
- Under cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.

Basic Operation



Screen Display ON/OFF

- 1 Press the **POWER** button.
- 2 To turn off the **POWER**, press the **POWER** button again.
 - If properly connected, the monitor's main **POWER** will turn off when the vehicle's ignition switch is off.
 - After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
 - Under cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.

Adjusting the Volume

- 1 Adjust the volume level by pressing the v or ^ button.

Switching the Source

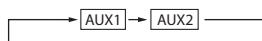
Press the **SELECT** button.
Each press of the button will cycle through the modes as follows:

- 1 If AUX3 SELECTION S/W of Black Box is

- "IN" position



- "OUT" position



- 2 If current screen mode is AUX3, and AUX3 SELECTION S/W is switched to "OUT" then screen mode will be changed AUX1.

Switching the display mode

- 1 Press the **DISP** button.
Each press of the button will cycle through the modes as follows.



WIDE

Normal images are expanded uniformly in the horizontal direction and are displayed over the entire screen.



NORMAL

Normal image (4:3)



ZOOM

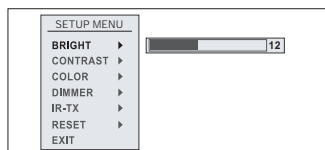
Normal images are expanded in the horizontal direction and are displayed over the entire screen. The expansion ratio increases towards the right and left edges of the screen.

Adjusting

- 1 Press and hold the **DISP** button for at least 2 seconds.
Adjustment screen will appear.
- 2 Press the **DISP** button and select the mode to be adjusted.
Adjust by pressing the ∇ or \blacktriangle button.

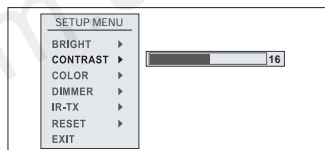
DISP : Selects the mode. (downward)
 ∇ or \blacktriangle : Adjusts.

- 1 Brightness adjustment (BRIGHT)



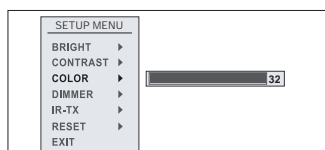
Allows the brightness (0 to 32) of the picture

- 2 Contrast adjustment (CONTRAST)



Contrast can be adjusted from 0 to 32

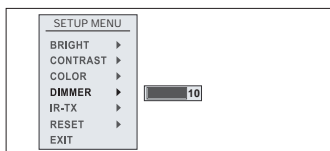
- 3 Color depth adjustment (COLOR)



Color depth can be adjusted from 0 to 32

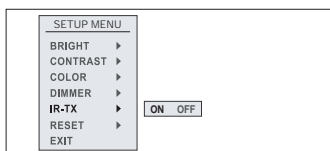
Basic Operation

4 Dimmer adjustment (DIMMER)



The backlighting is set to the value adjusted at 0~10

5 IR-TX adjustment (IR-TX)



ON : Enable to use IR Headphone

6 Reset

Press ∇ or \blacktriangle to restore system setting to factory default.

7 Exit

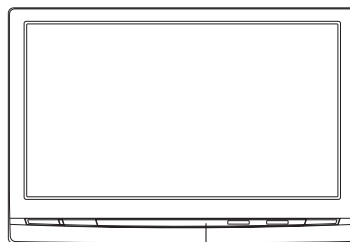
Select EXIT to exit setup menu, and the screen will return to normal mode.

- 3 After completing adjustments, press and hold the **DISP** button for at least 2 seconds. The screen will return to the normal mode.

- If no operation is made for 5 seconds after selecting a mode to be adjusted, the adjustment mode will be cleared.

Other Useful Feature

Remote Control Sensor



Remote sensor

- Receives the remote control signal from connected ALPINE products such as DVD players and TV tuners.

Information

In Case of Difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

No function or display.

- Car's ignition is off.
 - Turn the ignition on.
- No fuse or blown fuse.
 - Check the cause and replace the fuse.
- Incorrect connections.
 - Check connection and remedy.
- Vehicle's battery is weak.
 - Check the voltage of vehicle's battery.

No picture display.

- Brightness control is set for minimum brightness control.
 - Adjust the brightness.
- Incorrect setting of the VTR mode.
 - Switch to the correct mode.
- Protective circuit is on because of high temperature.
 - Wait until the temperature inside the vehicle comes down to the operating temperature range (45°C).
- Incorrect or open connection with the Monitor, AV interface unit.
 - Check the connection and remedy.

Picture color is poor.

- Brightness/Color/Tint control are not set to the proper positions.
 - Check each control.

Spots or dotted lines/stripes appear.

- Caused by neon signs, high-voltage power lines, CB transmitter, other vehicle's ignition plugs, etc.
 - Change the location of your vehicle.

Unit does not operate.

- Monitor's power is not turned on.
 - Turn on the monitor's power.

Information

Specifications

MONITOR

Screen Size	5.8"
Display System	Low reflection rear projection type TN liquid crystal panel
Drive System	Active matrix drive, normally white display
Number of Picture Elements	400(W) x 234(H) x 3
Effective Number of Picture Elements	99.99% or more
Light Source	Internal optical system (U-type cold cathode fluorescent tube)
Dimensions (W x H x D)	153 x 102 x 20mm
Weight	255g

Black box

Dimensions (W x H x D)	177 x 103 x 28 mm
Weight	400g

- *Due to continuous product improvement, specifications and design are subject to change without notice.*
- *The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 2 and 3 of this manual thoroughly for proper use.



Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BATTERY OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT INSTALL THE MONITOR NEAR THE PASSENGER SEAT AIR BAG.

If the unit is not installed correctly the air bag may not function correctly and when triggered the air bag may cause the monitor to spring upwards causing an accident and injuries.



Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

- Be sure to disconnect the cable from the (-) battery post before installing your TME-M680 & TME-M680EM. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage the vehicle's electrical system.
- When making connections to the car's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the TME-M680 & TME-680EM to the fuse box, make sure the fuse for the intended circuit of the TME-M680 & TME-680EM has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your ALPINE dealer.
- The TME-M680 & TME-680EM uses female RCA-type jacks for connection to other units having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized TME-M680 & TME-680EM dealer for assistance.

IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the rear of the monitor or on the bottom of the AV interface unit.

SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

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Installation and Connections

Installation

Installing Black box

This Unit can be placed inside the trunk, on the kick panel of the front passenger's seat or underdash. However, to avoid unnecessary signal wiring, it is better to mount the Unit as close as possible to the Display.
DO NOT MOUNT THE INTERFACE UNIT IN LOCATIONS EXPOSED TO MOISTURE OR EXTREME HEAT (such as the engine compartment).

Mounting with screws

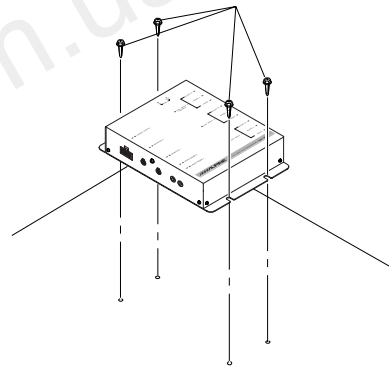
1. Place the unit on the location chosen for installation.
2. Mark the screw locations using the unit as a template.
3. Drill a hole less than 3 mm in diameter.

WARNING

When you are drilling a hole in the car body, be careful not to damage pipes, tanks or electrical wiring etc.. It might cause an accident or a fire.

4. Firmly attach the unit using 4 of the supplied self-tapping screws (M4 x 15).

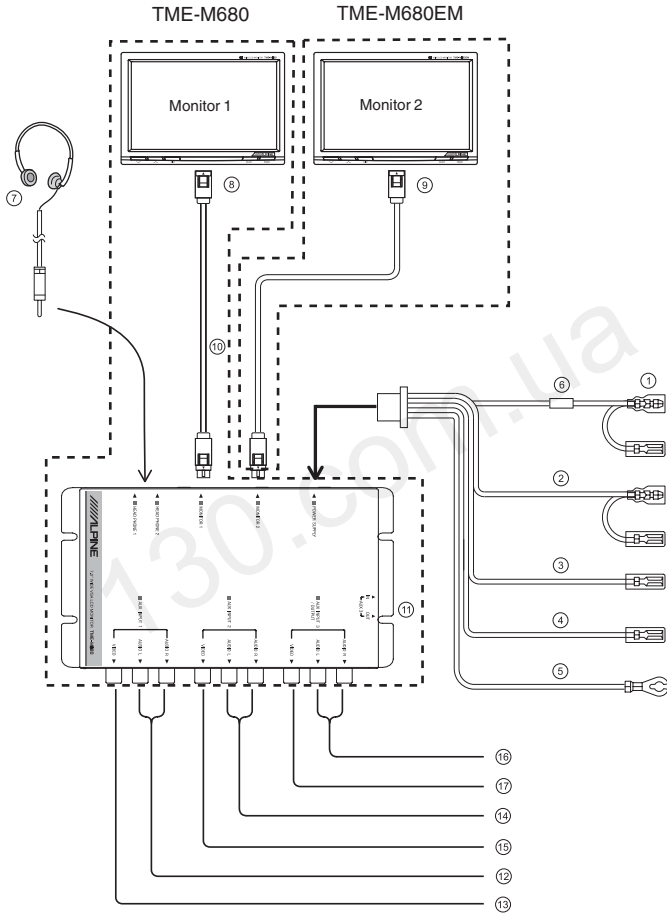
Self-tapping screws (M4 x 15)



Connections

Make connections correctly.
Improper connections may cause a fire or operation failure.

Basic connection



Installation and Connections

- ① **ACC power lead (Red)**
To ACC power lead powered when engine key position is ACC.
- ② **Parking brake lead (Yellow/Blue)**
Connect this lead to the parking brake lead powered when parking brake is pulled.
- ③④ **Remote control output lead (White/Brown)**
To remote control input lead of ALPINE products used in the system.
- ⑤ **Ground lead (Black)**
Connect the lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
- ⑥ **Fuse (7.5A)**
- ⑦ **Headphones (sold separately)**
- ⑧ **Main monitor**
- ⑨ **Extra monitor**
- ⑩ **Connection cable**
- ⑪ **AUX3 Selection S/W**
- ⑫ **Audio input connectors (AUX 1)**
Use these connectors to input the audio signals from a DVD player, TV tuner etc.
- ⑬ **Video input connector (AUX 1)**
Use this connector to input the video signals from a DVD player, TV tuner etc.
- ⑭ **Audio input connectors (AUX 2)**
Use these connectors to input the audio signals from a DVD player, TV tuner etc.
- ⑮ **Video input connectors (AUX 2)**
Use this connector to input the video signals from a DVD player, TV tuner etc.
- If ⑩ **AUX3 SELECTION S/W "IN" position**
 - ⑯ **Audio input / output connectors (AUX 3)**
Use these connectors to input the audio signals from a DVD player, TV tuner etc.
 - ⑰ **Video input / output connector (AUX 3)**
Use this connector to input the video signals from a DVD player, TV tuner etc.
- If ⑩ **AUX3 SELECTION S/W "OUT" position**
 - ⑯ **Audio input / output connectors**
Use these connectors to output the audio signals to other products.
 - ⑰ **Video input / output connector**
Use this connector to output the video signals to other products.

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove the coating if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various Alpine noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.