# /////LPINE®

# **TME-M790**

#### MOBILE MULTIMEDIA MONITOR

- OWNER'S MANUAL Please read before using this equipment.
- MODE D'EMPLOI Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN Léalo antes de utilizar este equipo.



### ALPINE ELECTRONICS, INC. Tokyo office: 1-1-8 Nishi Gotanda, Shinagawa-ku,

Tokyo 141-8501, Japan Tel.: (03) 3494-1101

ALPINE ELECTRONICS OF AMERICA, INC. 19145 Gramercy Place, Torrance, California 90501, U.S.A.

Tel.: 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC. Suite 203, 7300 Warden Ave. Markham, Ontario L3R 9Z6, Canada Tel.: 1-800-ALPINE-1 (1-800-257-4631)

#### ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.

6-8 Fiveways Boulevarde Keysborough, Victoria 3173, Australia Tel.: (03) 9769-0000

#### ALPINE ELECTRONICS GmbH

Kreuzerkamp 7-11 40878 Ratingen, Germany Tel.: 02102-45 50

#### ALPINE ITALIA S.p.A.

Via C. Colombo 8, 20090 Trezzano Sul Naviglio MI, Italy Tel.: 02-48 47 81

### ALPINE ELECTRONICS FRANCE S.A.R.L. (RCS PONTOISE B 338 101 280)

98, Rue De La Belle Etoile, Z.I. Paris Nord II B.P. 50016 F-95945, Roissy, Charles De Gaulle Cedex, France Tel.: 01-48 63 89 89

#### ALPINE ELECTRONICS OF U.K., LTD.

13 Tanners Drive, Blakelands, Milton Keynes MK14 5BU, U.K. Tel.: 01908-61 15 56

### ALPINE ELECTRONICS DE ESPAÑA, S.A. Portal De Gamarra 36, Pabellón 32

Portal De Gamarra 36, Pabellón 32 01013 Vitoria (Alava)-Apdo. 133, Spain Tel.: 34-45-283588

### Contents

### Operating Instructions

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#### WARNING

WARNING	2
CAUTION	3
PRECAUTIONS	3
Basic Operations	
Using Face Cover	.4

Using Face Cover	4
Initial System Start-up	4
Raising the Monitor	4
Lowering the Monitor	4
Turning Power On or Off	5
Selecting the Monitor Opening Angle	5
Adjusting the Monitor Viewing Angle	5
Adjusting the Volume	5

Switching the Source ......5

Switching Display Modes	6
Other Useful Features	

Setting the Brightness of the Backlight9
Adjusting the Lowest Level of the Backlight 9
Setting Automatic Opening/
Closing of Monitor9
Selecting Rear Monitor10
Setting the External Device Interrupt Mode $10$
Switching the Opening Screen11
Turning Sound Guide Function On or Off 11
Switching the Video Screen11
Using the External Input Terminal11
Operating with the Remote Control Unit
(RUE-4165 Sold Separately)12

#### Information

In Case of Difficulty	13
Specifications	13

#### **Installation and Connections**

Warning	14
Caution	14
Precautions	15
Installation	16
Connections	18
System Connections	19

#### LIMITED WARRANTY

### **⚠ 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.

### DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

### USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

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

#### DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

#### 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.



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 Center for repairing.

# KEEP FINGERS AWAY WHILE THE MOTORIZED FRONT PANEL OR MOVING MONITOR IS IN MOTION.

Failure to do so may result in personal injury or damage to the product.

### **A** PRECAUTIONS

#### **Temperature**

Be sure the temperature inside the vehicle is between  $+45^{\circ}$ 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

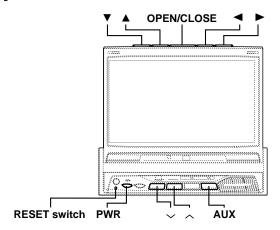
If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

#### Installation Location

Make sure the TME-M790 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 Operations**

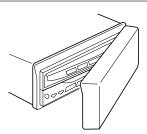


#### **Using Face Cover**

An anti-theft face cover is provided with the TME-M790.

Put the face cover onto the TME-M790 when you leave the vehicle.

Be sure to remove the anti-theft face cover when you drive.



#### **Initial System Start-up**

Immediately after installing or applying power to the unit, it should be initialized.

1 At the lower left corner of the screen front panel, there is a small button. Using a pencil or other pointed object, press this RESET switch to complete the initialization procedure.



#### **Raising the Monitor**

#### NOTE

The TME-M790 is a precision device. With careful handling, its performance can be maintained at a high level for a long time.

Press the OPEN/CLOSE button. The unit beeps 3 times and raises the monitor automatically.

#### NOTES

- If the monitor touches an obstacle while it is being raised, the unit will stop raising the monitor immediately. Should this occur, remove the obstacle and press the OPEN/CLOSE button again to raise the monitor.
- When the movable monitor is opened, do not place any object on the monitor and be careful not to bump or apply any pressure to the monitor while it is open. This can cause damage to the mechanism.
- Under low ambient temperature conditions, the display may be dark for a short period of time immediately after the power is turned on. Once the LCD has warmed up, the display will return to normal.
- For your safety, some operation of the unit cannot be performed while the vehicle is in motion. In this case, first stop the vehicle and engage the parking brake, then perform the operation.

#### **Lowering the Monitor**

#### NOTE

The TME-M790 is a precision device. With careful handling, its performance can be maintained at a high level for a long time.

Press the OPEN/CLOSE button.

The unit will beep 3 times and lower the monitor automatically.

#### NOTE

If the monitor touches an obstacle while it is being lowered, the unit will stop lowering the monitor immediately.

Should this occur, remove the obstacle and press the OPEN/CLOSE button again to lower the monitor.

#### **Turning Power On or Off**

- Press the **PWR** (Power) button to turn on the unit. The opening screen appears automatically.
- **2** Press the **PWR** (Power) button again to turn off the unit.

#### **NOTES**

- The TME-M790 draws minimal current even when its power switch is turned off. If the switched power (ignition) lead of the TME-M790 is connected directly to the positive (+) post of the vehicle's battery, the battery may be discharged. If this lead is unswitched, it must be disconnected from the battery post should the vehicle be left unused for an extended period of time.
  - An SPST (Single-Pole, Single-Throw) switch (sold separately) can be added to simplify this procedure. Then, you can simply place it in the OFF position when you leave the vehicle. Turn the SPST switch back ON before using the TME-M790. For connecting the SPST switch, refer to the Installation.
- Some operation of the unit cannot be performed while the vehicle is in motion. In this case, be sure to first stop your vehicle and apply the parking brake, then perform the operation.
- 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.

# Selecting the Monitor Opening Angle

The monitor opening angle can be set in 2 positions.

Press and hold the OPEN/CLOSE button for at least 2 seconds while the monitor is being raised. Each press changes the monitor angle back or forth.

#### **NOTE**

When the OPEN/CLOSE button is pressed and held for at least 2 seconds when the neck angle is adjusted, the neck angle adjustment is canceled.

After doing this, adjust the display in the front/rear direction.

# Adjusting the Monitor Viewing Angle

Adjust the monitor's angle for better visibility.

- 1 While viewing the screen that is shown press the ▼ or ▲ button to adjust the display to the ideal viewing angle.
  - The display viewing angle can be adjusted between 40 and 105 degrees.
- Press the ◀ or ▶ button to adjust the right-left viewing angle. It is possible to adjust the display viewing angle up to 15 degrees to the left or right.

Press and hold the **OPEN/CLOSE** button for at least 2 seconds to cancel the neck angle adjustment.

#### NOTES

- The angle changes continuously if the ▼ and ▲ buttons or the ◀ and ▶ buttons are held down.
- If there are any obstructions to the monitor when adjusting the angle, first remove the obstruction and then readjust the angle.
- The screen color will vary when viewed at certain angles. Adjust the screen angle for the best viewing position.
- If the voltage of the vehicle's battery power is low, the screen may blink when the screen angle is changed. This is normal and not a malfunction.
- The adjusted angle is stored in the memory.

#### **Adjusting the Volume**

#### NOTE

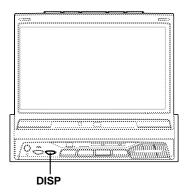
The volume changes continuously if the  $\vee$  or  $\wedge$  button is held down.

#### Switching the Source

1 Press the AUX button. Each press of the button will cycle through the modes as follows:



### **Basic Operations**



#### **Switching Display Modes**

#### Viewing the switching display modes

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- Push the foot brake to bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2. Keep pushing the foot brake and release the parking brake once then engage it again.
- 3. While the parking brake is being engaged the second time, release the foot brake.

#### NOTE

For automatic transmission vehicles, place the transmission lever in the Park position.

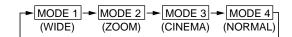
The video lock-out system is now disabled. Unless ignition is turned OFF, this mode can be reactivated by simply engaging the parking brake, without performing the entire procedure above (1 through 3).

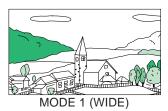
If the ignition is turned OFF position, you must perform the entire procedure above.

#### NOTE

Trying to access the switching display modes while driving will display the warning - PICTURE OFF FOR YOUR SAFETY.

1 Press and hold the **DISP** button for at least 2 seconds. Each press changes the display modes as follows:





Stretches the normal image evenly in a horizontal direction so that it is displayed on the entire screen.



MODE 2 (ZOOM)

Stretches the normal image evenly in a horizontal direction so that it is displayed on the entire screen. The stretching ratio increases the closer to the left or right edge of the screen.



MODE 3 (CINEMA)

Stretches the normal image horizontally and vertically.

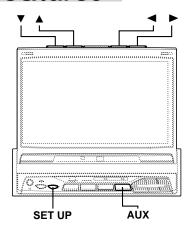
The top and bottom of the screen is cut slightly to adapt it to a cinema size image with a proportion of 16:9.



MODE 4 (NORMAL)

A normal television broadcasting (4:3) image is displayed in the center (normal image).

### Other Useful Features

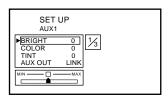


#### **Adjusting Brightness of Picture**

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- Press the ▼ or ▲ button within 10 seconds and select BRIGHT.
- 3 Press the ◀ or ▶ button within 10 seconds to adjust the brightness.



4 Press the **SET UP** button to finish adjustments.

#### **NOTE**

If the AUX button is pressed and held for 2 seconds or more while in the adjustment screen, the setting of the brightness, color density, and tint is reset back to its center value.

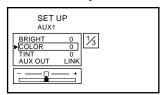
#### **Adjusting Color Density of Picture**

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- 2 Press the ▼ or ▲ button within 10 seconds and select COLOR.

3 Press the ◀ or ▶ button within 10 seconds to adjust the color density.



4 Press the **SET UP** button to finish adjustments.

#### NOTES

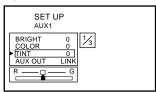
- If the AUX button is pressed and held for 2 seconds or more while in the adjustment screen, the setting of the brightness, color density, and tint is reset back to its center value.
- The color density cannot be adjusted in the NAVIGATION (RGB connection) mode.

#### **Adjusting Tint of Picture**

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the SET UP button.
- 2 Press the ▼ or ▲ button within 10 seconds and select TINT.
- 3 Press the ◀ or ▶ button within 10 seconds to adjust the tint.



4 Press the **SET UP** button to finish adjustments.

#### **NOTES**

- If the AUX button is pressed and held for 2 seconds or more while in the adjustment screen, the setting of the brightness, color density, and tint is reset back to its center value.
- The tint cannot be adjusted in the NAVIGATION (RGB connection) mode.

# Setting the Brightness of the Backlight

It is possible to change the brightness of the LCD panel's backlighting to more closely conform to the vehicle's interior lighting. This makes the screen easier to view.

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- 2 Press the ▼ or ▲ button within 10 seconds and select DIMMER.
- 3 Press the ◀ or ▶ button within 10 seconds to set the value.

#### AUTO:

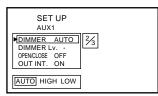
Automatic adjustment of the screen brightness in conformity with vehicle interior brightness.

#### HIGH:

Maximum screen brightness.

LOW:

The preset screen brightness that was set when adjusting the minimum backlight level.



4 Press the **SET UP** button to finish adjustments.

# Adjusting the Lowest Level of the Backlight

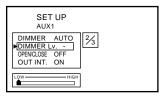
It is possible with this equipment to adjust the minimum brightness level for backlighting (LOW). This is useful, for matching the screen brightness to the dashboard for driving at night. This setting is recalled with the AUTO setting corresponding to the vehicle's interior lighting.

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- 2 Press the ▼ or ▲ button within 10 seconds and select DIMMER Lv.

3 Press the ◀ or ▶ button within 10 seconds to set the value.



4 Press the **SET UP** button to finish adjustments.

#### Setting Automatic Opening/ Closing of Monitor

Simply turn the ignition key to ACC ON or OFF to automatically open or close the TV display.

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

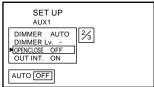
- 1 Press the **SET UP** button.
- Press the ▼ or ▲ button within 10 seconds to select OPEN/CLOSE.
- 3 Press the ◀ or ▶ button within 10 seconds to set the value.

#### AUTO:

Automatic opening or closing of the display in depending upon whether the ignition switch is ON or OFF.

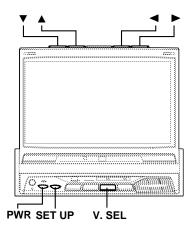
#### OFF:

Manual opening or closing of the display.



4 Press the **SET UP** button to finish adjustments.

### Other Useful Features



#### **Selecting Rear Monitor**

This unit has controls to switch the video and audio to a rear monitor if another (rear) monitor is connected.

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- **2** Press the **▼** or **△** button within 10 seconds and select AUX OUT.
- 3 Press the ◀ or ▶ button within 10 seconds to carry out selection.

#### LINK:

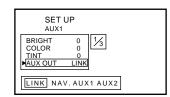
Output the video/audio portion shown on the main monitor, to the rear monitor.

#### NAV.:

Output the navigation video/audio to the rear monitor. (Only when navigation unit is connected). ALIX 1:

Output the AUX 1 video/audio to the rear monitor. AUX 2:

Output the AUX 2 video/audio to the rear monitor.



**4** Press the **SET UP** button to finish adjustments.

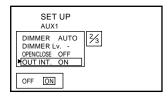
# **Setting the External Device Interrupt Mode**

When used in conjunction with an Ai interception box (KCA-801B), the sound of a TV or an external input sound can be intercepted to an Alpine head unit. This function may not work with some combinations of products. For details, refer to the KCA-801B's operating instructions.

#### **NOTE**

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the **SET UP** button.
- 2 Press the ▼ or ▲ button within 10 seconds and select OUT INT.
- 3 Press the ◀ or ▶ button within 10 seconds to turn ON.



4 Press the **SET UP** button to finish adjustments.

#### **Switching the Opening Screen**

You can change the opening screen to your liking.

#### NOTE

After carrying out the steps 1 to 3 of "Viewing the switching display modes" described on page 6, perform the operation shown below.

- 1 Press the SET UP button.
- 2 Press the ▼ or ▲ button within 10 seconds and select H.U. IND.
- 3 Press the ◀ or ▶ button within 10 seconds to set the selection.

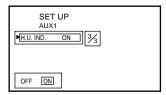
#### ON:

Special opening screen.

This setting is used when combining with the Flagship System model.

OFF:

Normal opening screen.



4 Press the **SET UP** button to finish adjustments.

# Turning Sound Guide Function On or Off

This function will give audible feedback with varying tones depending upon the button pressed.

Press and hold the PWR button for 2 seconds with the power OFF and turn the Sound Guide ON or OFF.

#### **Switching the Video Screen**

It is possible to change the video source for display while retaining the present audio portion.

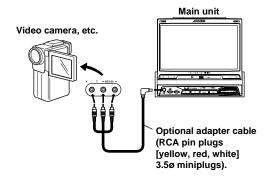
1 Press the **V.SEL** button.



**2** To release press and hold the **V.SEL** button for 2 seconds.

#### **Using the External Input Terminal**

It is possible to enjoy video and sound from a video camera, etc. by simply connecting it with an optional adapter cable.



#### NOTE

With the above connections, video source switching and settings and adjustments at adjustment screens are not possible.

### Other Useful Features

#### RUE-4165

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1

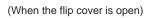
**6**)

(14)

Remote Control Signal Transmitter Signal Transmitter Indicator (5) (3)

(8)

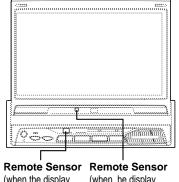
-(15)



(10)

(12) (13)

#### **Remote Control Sensor**



(when the display (when he display is stowed away) is raised)

Point the remote control transmitter toward the remote sensor on the TME-M790 and use the remote control within 2 meters from the TME-M790.

### **Operating with the Remote Control Unit (RUE-4165 Sold Separately)**

/////LPINE

Button No.	RUE-4165		
1	PAT	Select the item on the adjustment screen. Moves to the left or right when you press on the ← or → side.  Moves up and down when you press on the ↑ or ↓ side.	
2		Volume increases when turned in a clockwise direction. Volume decreases when turned in a counter-clockwise direction.	
3	LST	Volume increases. Changes continuously when held down.	
4	Disp	Volume decreases. Changes continuously when held down.	
(5)	NAVI / AUDIO	When operating this equipment, change to the NAVI side.	
6	SOURCE	Displays the adjustment screen.	
7	BAND CANC	Terminates the adjustment screen.	
8	MU E O M RG	The display mode changes.	
9	8	Display angle adjustment (left). Changes continuously when held down.	

	Button No.	RUE-4165	
	10 9		Display angle adjustment (right). Changes continuously when held down.
	11	(DEL	Display angle adjustment (down). Changes continuously when held down.
12		©K	Display angle adjustment (up). Changes continuously when held down.
	13	0	When pressed less than 2 seconds: OPEN/CLOSE of display. When pressed at least 2 seconds: Display slides forward and backward.
1	14) Ö		Power ON/OFF.
	46	TO O	Switch the video source.
	(15)		When switch ⑤ is set to the AUDIO side.

### 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.

#### Unclear picture display.

- Fluorescent tube is exhausted.
  - Replace the fluorescent tube.\*

#### No picture display.

- Brightness control is set for minimum brightness control.
   Adjust the brightness.
- Incorrect setting of the VCR 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.

### The display angle cannot be adjusted or the adjustment screen does not appear.

- Mechanism error.
  - Press the OPEN/CLOSE button to stow away the display, and raise the display again.
- \* The fluorescent tube replacement is not free of charge even within the warranty period, for the tube is an article of consumption.

#### **Specifications**

#### MONITOR SECTION

Screen Size 7.0"

LCD Type Transparent type TN LCD Operation System TFT active matrix

336,960 pcs. (1,440 x 234)

Number of Picture Elements Effective Number of

Picture Elements 99.99% or more Illumination System Cold cathode fluorescent tube

#### **AV-INTERFACE UNIT SECTION**

S/N Ratio

Video 45dB Audio 55dB

Input Level

 $\overline{V}$ ideo 1 Vp-p (75Ω UNBALANCED)

Audio 500mV (RMS)

Output Level

Video 1 Vp-p (75 $\Omega$  UNBALANCED)

Audio 500mV (RMS)

#### **GENERAL**

Power Requirement 14.4V DC (11-15 V allowable) Operating temperature +32°F to +113°(0°C to +45°C)

Weight

(Monitor Section) 2.0 kg (4 lbs. 7 oz) (AV-Interface Unit Section) 0.2 kg (7 oz)

#### **CHASSIS SIZE (Monitor section)**

 Width
 178 mm (7")

 Height
 50 mm (2")

 Depth
 165 mm (6-1/2")

#### **CHASSIS SIZE**

#### (AV-Interface Unit section)

 Width
 106.6 mm (4-1/4")

 Height
 32 mm (1-1/4")

 Depth
 67.8 mm (2-11/16")

#### **NOTES**

- 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, gear 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 GEARSHIFT.

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



#### 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-M790. 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-M790 to the fuse box, make sure the fuse for the intended circuit of the TME-M790 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-M790 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized ALPINE dealer for assistance.
- The Display must be completely retracted in the casing when installing. If it is not, problems may occur.
- When installing in automobiles, make sure the Display can open/close without coming in contact with the shift lever.

#### **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 bottom of the unit.

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

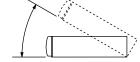
### Installation and Connections

### Installation 3

#### **Installing the Monitor**

#### · Place of installation

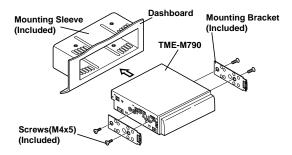
Before determining the position of installation, check that the display will not hamper gear shifting when it is opened and closed in that position.



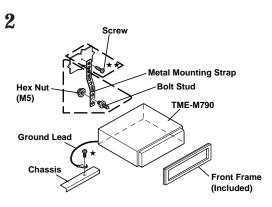
#### NOTE

Install at an angle of within 30 degress from the horizontal.

1



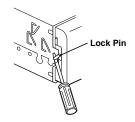
Slide mounting sleeve from main unit (see Removal Procedure below). Slide the mounting sleeve into the dashboard. Install the supplied bracket to the monitor.



Reinforce the monitor with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw  $(\star)$  already attached to the vehicle's chassis.

#### NOTE

For the screw marked  $\star\star$ , use an appropriate screw for the chosen mounting location.



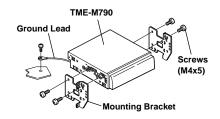
Slide the TME-M790 into the dashboard. When the unit is in place, make sure the locking pins are fully seated in the down position. This can be done by pressing firmly in on the unit while pushing the locking pin down with a small screwdriver. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the Supplied Front Frame.

#### Removal

- 1 Use a small screwdriver (or similar tool) to push the locking pins to the "up" position (see above drawing). As each pin is unlocked, gently pull out on the unit to make sure it does not re-lock before unlocking the second pin.
- 2 Pull the unit out, keeping it unlocked as you do so.

#### <JAPANESE CAR>

To install using the vehicle's genuine bracket



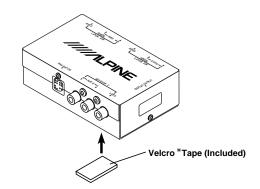
#### **Attaching the AV-Interface Unit**

When attaching with  $Velcro^{TM}$  Tape, be sure to choose a level location.

Do not attach in a location where the AV-Interface unit is upside down.

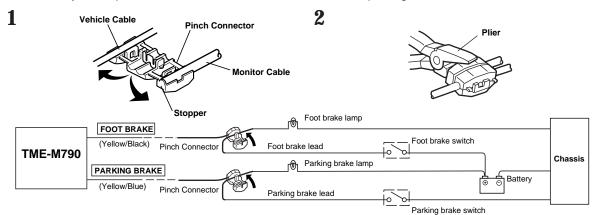
Attach the AV-Interface Unit.

Attach the Velcro<sup>™</sup> Tape included with the AV-Interface Unit and secure the unit under the passenger seat, for example.

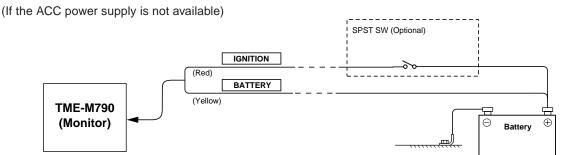


#### Foot Brake Lead/Parking Brake Lead Connection

If necessary, use a pinch connector to connect the foot brake lead, parking brake lead, etc.



#### Connection Diagram of SPST Switch (Sold Separately)

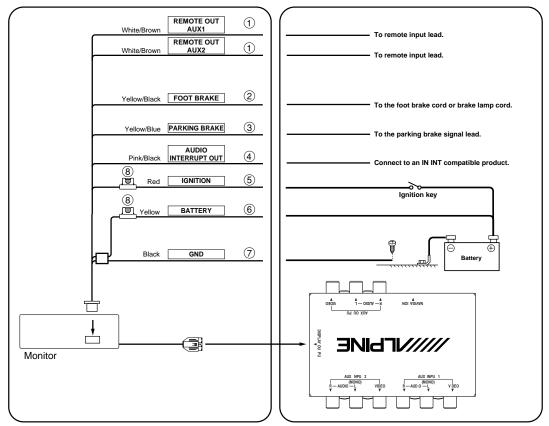


#### NOTE

If your vehicle has no ACC power supply, add an SPST (Single-Pole, Single-Throw) switch (sold separately). If the switched power (ignition) lead of the TME-M790 is connected directly to the positive (+) post of the vehicle's battery, the TME-M790 draws some current (several hundred milliamperes) even when its switch is placed in the OFF position and the battery may be discharged.

### **Installation and Connections**

#### **Connections**



### Remote Control Output Lead (White/Brown) Connect this lead to the remote control input

Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

#### 2 Foot Brake Lead (Yellow/Black)

Connect to the vehicle's foot brake lead or brake lamp lead.

#### ③ Parking Brake Lead (Yellow/Blue)

Connect this lead to the power supply side of the parking brake switch to transmit the parking brake status signals to the TME-M790.

#### 4 Audio Interrupt Out Lead (Pink/Black)

#### Switched Power Lead (Ignition) (Red)

Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

#### 6 Battery Lead (Yellow)

Connect this lead to the positive (+) post of the vehicle's battery.

#### **⑦** Ground Lead (Black)

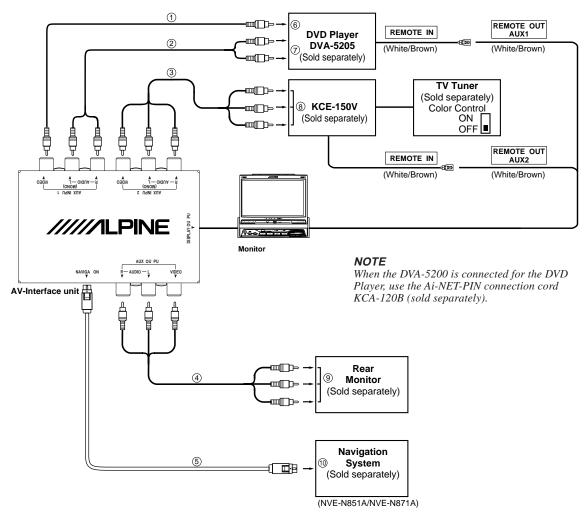
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

#### 8 Fuse Holder (5A)

### To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10cm 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.

#### **System Connections**



- RCA Extension Cable (Included with DVD Player)
- ② RCA Extension Cable (Option)
- ③ RCA Extension Cable (Included with KCE-150V)
- 4 RCA Extension Cable (Option)
- S RGB Cable (Navigation NVE-N851A: Included, Navigation NVE-N871A: Sold separately)
- **6 Video Output Connector**

Connect the AUX INPUT 1, Video Input Terminal on the TME-M790 to the Video Output Connector on the DVD player.

#### ② Audio Output Connector

Connect the AUX INPUT 1, Audio Input Terminal on the TME-M790 to the Audio Output Connector (L/R) on the DVD player.

#### **8 Video Output Terminal**

Connect the AUX INPUT 2 Terminal on the TME-M790 to the Video Output Terminal.

#### AUX Input Terminal

Connect the AUX OUTPUT Terminal on the TME-M790 to the AUX Input Terminal.

#### **10 RGB Output Connector**

Connect the NAVIGATION RGB Connector on the TME-M790 to the RGB Output Connector on the navigation system.

#### NOTES

- When this product is used in combination with a separately sold Ai-NET-PIN connection cord (KCA-121B), the sound can be output to a head unit equipped with an external input. For details, refer to the head unit's operating instructions.
- When the NVA-N751AS is connected for the Navigation System, use the RGB conversion cable KWE-503N (sold separately).

### **GARANTIE LIMITÉE**

Fidèles à leur engagement de ne fournir que des produits de qualité, ALPINE ELECTRONIQUE DE L'AMERIQUE INC. et ALPINE ELECTRONIQUE DU CANADA INC. (Alpine) sont heureuses de vous offrir cette garantie. Nous vous suggérons de le lire attentivement et en entier. Si vous avez la moindre question, veuillez contacter l'un de nos concessionnaires ou appeler directement Alpine au numéros Liste ci-dessous.

#### PRODUITS COUVERT PAR LA GARANTIE

Cette garantie couvre les produits audio/visuel de voiture et les accessoires connexes ("le produit"). Elle ne couvre les produits que dans le pays où il ont été achetés.

#### DURÉE DE LA GARANTIE

Cette garantie est en vigueur pendant un an à partir de la date du premier achat du client.

#### GARANTIE À VIE DES TÊTES DE LECTURE DES MAGNÉTOPHONES À CASSETTES

Toutes les têtes de cassettes analogiques audio de voiture Alpine, à l'exception des êtes de cassettes vidéo sont garanties à vie contre des vices de fabrication pouvant entraîner leur panne.

#### PERSONNES PROTÉGÉES PAR LA GARANTIE

Seul l'acheteur original du produit, s'il résisde aux États-Unis, à Porto Rico ou au Canada, peut se prévaloir de la garantie.

#### CE QUI EST COUVERT

Cette garantie couvre tous les défauts de matériaux et de fabrication (pièces et main d'œuvre) du produit.

#### CE QUI N'EST PAS COUVERT

Cette garantie ne couvre pas ce qui suit:

- Les dommages survenus durant le transport des produits renvoyés à Alpine pour être réparés (les réclamations doivent être adressées au transporteur):
- ② Tout dégât provoqué par accident, abus, négligence, usage inapproprié, mauvais raccordement, mauvaise utilisation ou par le non-respect des instructions indiquées dans le manuel de l'utilisateur.
- ③ Les dommages dus à la force majeure, notamment aux tremblements de terre, au feu, aux inondations, aux tempêtes ou aux autres cataclysmes naturels:
- Les frais ou les dépenses relatifs à l'enlèvement ou à la réinstallation du produit;
- (5) Les services rendus par une personne, physique ou morale non autorisée:
- Les produits dont le numéro de série a été effacé, modifié ou retiré;
- Les produits qui ont été adaptés ou modifiés sans le consentement d'Alpine;
- Les produits qui ne sont pas distribués par Alpine aux Etats-Unis. à Porto Rico ou au Canada:
- Les produits qui n'ont pas été achetés par l'entremise d'un concessionnaire Alpine autorisé;
- ① Tout produit qui a été déterminé comme contenant une quantité excessive de poussière ou de saleté et tout produit qui contient d'autres saleté, en ce compris du liquide et des corps étrangers.

#### COMMENT SE PRÉVALOIR DE LA GARANTIE

① Il vous faut remettre le produit nécessitant des réparations à un centre de service autorisé Alpine ou à Alpine même et en assumer les frais de transport. Alpine a le choix entre réparer le produit ou le remplacer par un produit neuf ou révisé, le tout sans frais pour vous. Si les réparations sont couvertes par la garantie et si le produit a été envoyé à un centre de service Alpine ou à Alpine, le paiement des frais de réexpédition du produit incombe Alpine.

- ② Vous devez donner une description détaillée des problèmes qui sont à l'origine de votre demande de réparation.
- ③ Vous devez joindre la preuve de votre achat du produit.
- 4 Vous devez emballer soigneusement le produit pour éviter tout dommage durant son transport.

#### LIMITATION DES GARANTIES TACITES

LA DURÉE DE TOUTES LES GARANTIES TACITES, Y COMPRIS LA GARANTIE D'ADAPTATION A L'UTILISATION ET LA GARANTIE DE QUALITÉ LOYALE ET MARCHANDE, EST LIMITÉE À CELLE DE LA GARANTIE EXPRESSE DÉTERMINÉE CI-DESSUS. PERSONNE N'EST AUTORISÉ À ENGAGER AUTREMENT LA RESPONSABILITÉ D'ALPINE EN VERTU DE LA VENTE D'UN PRODUIT.

#### EXCLUSIONS DE LA GARANTIE

ALPINE STIPULE EXPRESSÉMENT QU'ELLE N'EST PAS RESPONSABLE DES DOMMAGES DOMMAGES-INTÉRÊTS ET DOMMAGES INDIRECTS PROVOQUÉS PAR LE PRODUIT. LES DOMMAGES DOMMAGES-INTÉRÊTS SONT LES FRAIS DE TRANSPORT DU PRODUIT VERS UN CENTRE DE SERVICE ALPINE, LA PERTE DE TEMPS DE L'ACHETEUR ORIGINAL, LA PERTE D'UTILISATION DU PRODUIT, LES BILLETS D'AUTOBUS, LA LOCATION DE VOITURES ET TOUS LES AUTRES FRAIS LIÉS À LA GARDE DU PRODUIT.

LES DOMMAGES INDIRECTS SONT LES FRAIS DE RÉPARATION OU DE REMPLACEMENT D'AUTRES BIENS ENDOMMAGÉS SUITE AU MAUVAIS FONCTIONNEMENT DU PRODUIT.

LES RECOURS PRÉVUS PAR LES PRÉSENTES EXCLUENT ET REMPLACENT TOUTE AUTRE FORME DE RECOURS.

#### ● LIEN ENTRE LA GARANTIE ET LA LOI

La garantie vous donne des droits spécifiques, mais vous pouvez aussi jouir d'autres droits, qui varient d'un état ou d'une province à l'autre. En outre, certains états et certaines provinces interdisent de limiter la durée des garanties tacites ou d'exclure les dommages accessoires ou indirects. Dans ce cas, les limites et les exclusions de la garantie peuvent ne pas s'appliquer à vous.

#### CLAUSE APPLICABLE AU CANADA SEULEMENT

Pour que la garantie soit valable, il faut qu'un centre d'installation autorisé ait installé le système audio pour l'auto dans votre véhicule et qu'il ait ensuite apposé son cachet sur la garantie.

#### NUMÉROS D'APPEL DU SERVICE À LA CLIENTELE

Si vous avez besoin de nos services, veuillez appeler le centre de service autorisé Alpine le plus proche.

U.S.A. 1-800-ALPINE-1 (1-800-257-4631) CANADA 1-800-ALPINE-1 (1-800-257-4631)

### LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or Alpine at one of the telephone numbers listed below.

#### PRODUCTS COVERED:

This Warranty covers Car Audio/Visual Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

#### LENGTH OF WARRANTY:

This Warranty is in effect for one year from the date of the first consumer purchase.

#### LIFETIME TAPE HEAD WARRANTY:

All Alpine Car Audio analog tape heads excluding Video tape heads are warranted for life against manufacturing defects causing failure.

#### WHO IS COVERED:

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

#### WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

#### WHAT IS NOT COVERED:

This Warranty does not cover the following:

- ① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
- ② Damage caused by accident, abuse, negligence, misuse, improper connections, improper operation or failure to follow instructions contained in the Owner's manual.
- ③ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature.
- Any cost or expense related to the removal or reinstallation of the product.
- Service performed by an unauthorized person, company or association.
- ⑥ Any product which has the serial number defaced, altered or removed.
- ② Any product which has been adjusted, altered or modified without Alpine's consent.
- Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
- Any product not purchased from an Authorized Alpine Dealer.
- ① Any product that has been determined to contain an excessive amount of dust or dirt and any product that contains other contaminants including liquid or foreign objects.

#### HOW TO OBTAIN WARRANTY SERVICE:

① You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.

- ② You should provide a detailed description of the problem(s) for which service is required.
- 3 You must supply proof of your purchase of the product.
- 4 You must package the product securely to avoid damage during shipment.

#### HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

#### HOW WE EXCLUDE CERTAIN DAMAGES:

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

#### HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary form state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

#### • IN CANADA ONLY:

This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

#### • HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

U.S.A. 1-800-ALPINE-1 (1-800-257-4631) CANADA 1-800-ALPINE-1 (1-800-257-4631)