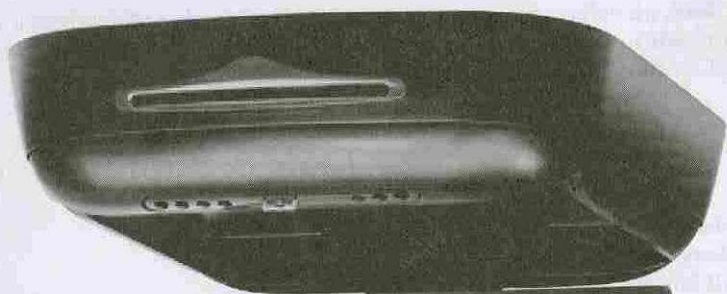


OVERHEAD VIDEO & DVD INSTALLATION INSTRUCTIONS

**PROFESSIONAL INSTALLATION
STRONGLY RECOMMENDED**



Mounting Instructions

'Scenario A' Mounting Instructions

1) Remove dome light from the center of the ceiling behind the front seats. The clear cover will usually snap off and the fixture will usually be mounted with screws. Unplug the factory dome light.

2) Remove the mounting plate from the video unit to use as a template for marking your ceiling headliner.

3) Use the mounting plate to line up and center over the existing dome light cutout. Use super soft leaded pencil to draw a line around the mounting bracket top outline (Be careful not to use the wrong side of the bracket; have the mounting feet side facing down and the > arrow pointing toward the rear of the vehicle.).

4) Use your ruler as a straight edge to mark inside the lines you drew around the bracket, to have clean cutting edges.

5) Remove all excess material with your box cutter or razor blade from the inside dimensions outlined in step #3. (Do not cut outside lines you established.)

6) Reset your bracket to mark for drilling pilot holes to mount to your ceiling cross member. Center perfectly over the dome light cutout you just completed. Line up your crossbeam and mark where to drill into the bracket to be able to hit the crossbeam in a desired location extending out from the center line as far as practical. Make sure the arrow indicated on the bracket points toward the rear seats.

7) Drill either two or four 3/16" holes in the mounting bracket only where it lines up on either one or two crossbeam supports.

8) Reset your mounting bracket and mark where you drilled out your pilot holes on the bracket to align with the crossbeam for drilling the 1/8" holes for the ceiling anchor screws.

9) Anchor your overhead bracket with the short flathead #8 screws. (Again take extra care not to puncture or dimple the outer skin of your roof!)

10) At the dome light plug, use your volt Ohm meter to verify what wires you have available (Use 20 volt DC range.). The video unit requires constant 12 volt on the yellow wire, accessory 12 volt on the red wire, dome light negative trigger on the blue wire, and ground to the black wire. Some vehicles will not have all of the wires or modes. Read the 'Wiring Tips' section beginning on page 8 and check the color code chart on page 11. **Please note: if only one positive wire exists, connect both red and yellow from the overhead DVD to the single (12+) wire. Make sure the wire(s) you found don't change state when the doors are closed.** If you are not sure how to wire, please consult a professional.

11) Route all of your wires down through the hole(s) provided in the mount-

ing bracket.

12) This is where you need your friend!

13) Connect the wiring with the butt connectors and crimp vigorously. Wrap all finished connections with electrical tape to protect against rubbing while driving. Insulate carefully where you dropped your wires through the bracket. Use plastic split tubing if available. (available from auto parts stores)

14) The RCAs provided on this overhead are for adding additional screens and sending your audio signal out if you choose not to use the built-in FM transmitter. The audio can go through an auxiliary input on your radio or through an RF modulator as indicated in your operations manual.

15) Install your overhead with the supplied machine screws loosely until you have tested all functions. Once everything has been confirmed, tighten all screws and re-check to make sure you haven't over-tightened or pinched any wiring in the overhead installation.

'Scenario B' Mounting Instructions

1) Remove dome light from the center of the ceiling behind the front seats. The clear cover will usually snap off and the fixture will usually be mounted with screws. Unplug the factory dome light.

2) Remove one set of side molding to allow viewing and proper location of center crossbeam under the headliner. Mark and cut a tiny hole in the center to verify your beam location.

3) Remove the overhead mounting plate to use as a template for marking your ceiling headliner. Use the mounting plate to line up and center over the support beam and cutout. Use super soft leaded pencil to draw a line around the mounting bracket top outline (Be careful not to use the wrong side of the bracket; have the mounting feet side facing down and the > arrow pointing toward the rear of the vehicle.).

4) Use your ruler as a straight edge to mark inside the lines you drew around the bracket, to have clean cutting edges.

5) Remove all excess material with your box cutter or razor blade from the inside dimensions outlined in step #3. (Do not cut outside lines you established.)

6) Reset your bracket to mark for drilling pilot holes to mount to your ceiling cross member. Center perfectly over the dome light cutout you just completed. Line up your crossbeam and mark where to drill into the bracket to be able to hit the crossbeam in a desired location recessing about $\frac{3}{4}$ " from each side. Make sure the arrow indicated on the bracket points toward the rear seats.

7) Drill either two or four $\frac{3}{16}$ " pilot holes in the mounting bracket only where it lines up on either one or two crossbeam supports.

8) Reset your mounting bracket and mark where you drilled out your pilot

holes on the bracket to align with the crossbeam for drilling the 1/8" pilot holes for the ceiling anchor screws.

9) Anchor your overhead bracket with the short flathead screws. (**Again take extra care not to puncture or dimple the outer skin of your roof!**)

10) At the front dome light plug, use your volt Ohm meter to verify what wires you have available (Use 20 volt DC range.). The video unit requires constant 12 volt on the yellow wire, accessory 12 volt on the red wire, dome light negative trigger on the blue wire, and ground to the black wire. Some vehicles will not have all of the wires or modes. Read the 'Wiring Tips' section beginning on page 8 and check the color code chart on page 11. Extend the wiring to the opening you made for the video unit using adequate lengths of wire. **Please note: if only one positive wire exists, connect both red and yellow from the overhead DVD to the single (12+) wire. Make sure the wire(s) you found don't change state when the doors are closed.** If you are not sure how to wire, please consult a professional.

11) **This is where you need your friend!**

12) Connect the wiring with the butt connectors and crimp vigorously. Wrap all finished connections with electrical tape to protect against rubbing while driving. Insulate carefully where you dropped your wires through the bracket. Use plastic split tubing if available. (available from auto parts stores)

13) The RCAs provided on this overhead are for adding additional screens and sending your audio signal out if you choose not to use the built-in FM transmitter. The audio can go through an auxiliary input on your radio or through an RF modulator as indicated in your operations manual.

14) Install the overhead with the supplied machine screws loosely until you have tested all functions. Once everything has been confirmed tighten all screws and re-check to make sure you haven't over-tightened or pinched any wiring in the overhead installation.

15) Reinstall the front dome light.

'Scenario C' Mounting Instructions

Remove the front mounted dome light. The clear cover will usually snap off and the fixture will usually be mounted with screws. Unplug the factory dome light and set aside.

1) Remove one set of side molding to allow viewing and proper location of center of the ceiling under the headliner. Mark carefully and cut a tiny hole in the center to verify alignment and centering of your overhead's location.

2) Remove the overhead mounting plate to use as a template for marking your ceiling headliner. Use the mounting plate to line up and center over the spot you have marked. Use super soft leaded pencil to draw a line around the mounting bracket top outline (Be careful not to use the wrong side of the bracket; have the mounting feet side facing down and the > arrow pointing

toward the rear of the vehicle.).

3) Use your ruler as a straight edge to mark inside the lines you drew around the bracket to have clean cutting edges.

4) Remove all excess material with your box cutter or razor blade from the inside dimensions outlined in step #3. (Do not cut outside lines you established.)

5) Use the same mounting bracket to mark the MDF or plywood (10" x 10") piece of scrap wood. Cut the wood to the size of the top of the bracket. Mark the cut wood with the same > arrow to maintain proper placement.

6) Mark and drill 1/16" pilot holes for mounting the bracket and 3/16" holes 1/4" deep to accommodate the mounting machine screws for the overhead DVD to drop through the wooden mounting system. Make sure all holes are pre-drilled before mounting the wood to the ceiling.

7) Make sure when you examine the mounting of the wood support to the ceiling that the arrow is facing to the rear of the vehicle and all screw holes are pointing downward. You will now have to assess how much sanding is required to get the top side of the wooden bracket to sit flat against the ceiling.

8) Once you have sanded the mounting board to fit flush with the ceiling, clean with a damp cloth to remove all dust.

9) You will need a brace to hold the wood in place for overnight drying of the Liquid Nails.

10) Re-check the thickness of the wood bracket to make sure the mounting screws won't penetrate the back of the wood prior to gluing the bracket in place.

11) Mask off around the hole cut in the ceiling so no glue will get on your headliner.

12) Use a liberal amount of Liquid Nails on the top side of the mounting board and carefully slip through the hole cut in the ceiling and anchor with your bracing system to hold in place for the time designated by the glue manufacturer's directions. Check several times in the first hour for skew or slippage of the bracket due to any movement from entering or exiting the vehicle.

13) Anchor your overhead bracket with the short flathead screws. (**Again take extra care not to puncture or dimple the outer skin of your roof!**)

14) At the front dome light, use your volt Ohm meter to verify what wires you have available (Use 20 volt DC range.). The video unit requires constant 12 volt on the yellow wire, accessory 12 volt on the red wire, dome light negative trigger on the blue wire, and ground to the black wire. Some vehicles will not have all of the wires or modes. Read the 'Wiring Tips' section beginning on page 8 and check the color code chart on page 11. Extend the wiring to the opening you made for the video unit using adequate lengths of wire. **Please note: if only one positive wire exists, connect both red and yellow from the overhead DVD to the single (12+) wire. Make sure the wire(s) you**

found don't change state when the doors are closed. If you are not sure how to wire, please consult a professional.

15) This is where you need your friend!

16) Connect the wiring with the butt connectors and crimp vigorously. Wrap all finished connections with electrical tape to protect against rubbing while driving. Insulate carefully where you dropped your wires through the bracket. Use plastic split tubing if available. (available from auto parts stores)

17) The RCAs provided on this overhead are for adding additional screens and sending your audio signal out if you choose not to use the built-in FM transmitter. The audio can go through an auxiliary input on your radio or through an RF modulator as indicated in your operations manual.

18) Install the overhead with the supplied machine screws loosely until you have tested all functions. Once everything has been confirmed, tighten all screws and re-check to make sure you haven't over-tightened or pinched any wiring in the overhead installation.

19) Reinstall the front dome light.

Wiring Tips

The system will work best if all four wires are connected to the appropriate sources. Some vehicles will not have all of these sources at the dome light. In fact, most will not. In this case, the best course would be to have a professional install the unit.

The red and yellow wires must have 12 volts present and the black wire must be grounded for the unit to turn on. If the yellow is connected to a constant 12-volt source and the red is connected to an accessory source (12 volt present only when the ignition key is in acc position), then the system will turn off when the key is turned off, preventing the car battery from becoming discharged in the event you forget to turn off the DVD system. If an accessory source is not present at the dome light, the red and yellow wires may be connected to the same constant 12-volt source, but you must remember to turn the DVD off when you leave the vehicle.

You may also locate the wires you don't have above in the dashboard or fuse box area, and run these up to the DVD player, using appropriate connectors and 16 awg stranded wire. Be advised — this is a technically difficult job in most every car and could result in damage to your DVD player and your car's trim panels or electrical system, which would not be covered by any warranty. Consult a professional!

To locate and identify wires, start by setting your multi meter to the 20-volt DC scale and grounding the black lead of the meter.

The yellow, constant power lead must be hooked to a source that supplies power no matter the position of the key or whether the doors are open or

closed. This is called a constant 12-volt source. Your meter will read 12-14 volts when you have probed the correct wire with the red meter lead. Try to find a wire about 16 awg. Or use the correct fuse tap (available from an auto parts store). The interior light fuse is a great place to find this source.

The red accessory lead should be connected to a wire or fuse tap that is only powered when the key is in the accessory position. This is called a switched or accessory source. (This would be where the car is not running but the radio will still work.) Again, your meter will read 12-14 volts if correct. The radio fuse would be a great place to find this source.

The black ground lead should have a grounding ring crimped to it and screwed carefully into a metal brace. Scrape off any paint or coating and be careful not to dimple or screw through the roof of the car.

The blue lead provides a power for the small lights built into the DVD player to make up for the original dome light you removed to install the DVD. This lead should be connected to a wire that provides ground when the doors are open. In most every car, you will have available a wire that is ground when the doors are open, up at the dome light wiring. See the wiring tips below. Some Ford vehicles have a positive trigger dome lamp. To have the integrated dome light work with these cars you will have to add a relay — See the diagram below. Remember, you do not have to have the blue wire connected for the DVD system to work.

If you wish the integrated dome light to work with your positive Ford car (not all Fords have a positive switched system; some have negative), you first need to purchase a Bosch relay — These can be found at your local car stereo or alarm shop. The Bosch (or other manufacturer) relay is an SPDT automotive type 12-volt electronically controlled switch. If wired properly, it can convert the positive switched dome light source from your car to the negative switched source needed by the integrated dome light. Follow the wiring diagram below. You are looking at the bottom of the relay; the center terminal is not used. To find the positive switched dome light wire, connect your multi meter's black wire to a good ground. Set the multi meter to 20 volts DC. Probe your dome light wiring for a wire that is 12 volts when the doors are open and 0 volts when they are closed. This is the wire you tap into and hook to terminal 85 of your relay. You will need to ground terminals 86 and 30 of the relay and you should not use the same screw or ground source you used for the DVD player system ground, as you may get interference and pops through the sound system.

Make sure all connections are tight and well-insulated. Use cable ties to secure all wiring so it doesn't rub or chafe. This completes the wiring of your DVD player.

Wiring Diagram

