

You can install the features-packed Optimus Detachable Face Digital AM/FM/CD Car Stereo in almost any vehicle. When you remove the detachable control panel, an LED blinks to ward off potential thieves and to show that your stereo is disabled.

The system offers many easy-to-use features which you can safely operate while driving.

High Power-gives you 32 watts of power (16 watts per channel for a 2-channel stereo).

Detachable Control Panel-can be removed to discourage potential thieves. Comes with its own protective case.

Security LED-blinks to show that your stereo is disabled after you remove the detachable control panel.

30 Memory Tuning Presets-let you quickly tune to any of 18 FM and 12 AM stations.

Automatic Memory Storage-lets you quickly store stations into memory.

Automatic Memory Scan-lets you scan all stations in memory.

Program Play-lets you program and play a selected CD track.

Repeat Play-lets you hear a desired CD track repeatedly.

Intro Scan-lets you scan a CD by playing only the first 10 seconds of each track.

Random Play-lets you play randomly selected tracks.

Line-Out Jacks-make it easy to connect an equalizer/booster or power amplifier.

Lighted Display-makes right operation easy.

Phone Mute-automatically mutes the stereo when you use a car phone.

For easier installation, the supplied 13-wire harness includes all the lead wires you need to connect the stereo to speakers, power, and optional components. You might need additional wire to complete connections, depending on your individual auto sound system. Your local Radio Shack store carries a full line of wire and wire management accessories.

Caution: For added safety and to protect your stereo, disconnect the cable from the negative (-) terminal on your vehicle's battery before you begin installation.

ROUTING SPEAKER WIRE

If you install speakers, avoid routing the speaker wires near moving parts or sharp edges. You can usually route them along the wiring channel beneath the vehicle door's step plates by carefully removing the molding that holds the carpet in places. After you route the speaker wires, replace the molding.

CONNECTING SPEAKERS

Any speakers you connect to the stereo must have a combined power-handling capacity of at least 32 watts, and each individual speaker must have an impedance of at least 4 ohms. Your local Radio Shack store carries a full line of automotive speakers.

Caution: You must connect a separate wire to each speaker terminal as described in the following procedures. Do not use a common wire or chassis ground for any speaker connection.

Connecting Two Speakers

If you are using only one pair of speakers, set 4CH/2CH on the left side of the stereo to 2CH. Then connect the speakers to the supplied harness as follows.

1. Connect the harness' gray wire to the right speaker's positive (+) terminal.
2. Connect the harness' violet wire to the right speaker's negative (-) terminal.
3. Connect the harness' white wire to the left speaker's positive (+)

terminal.

4. Connect the harness' green wire to the left speaker's negative (-) terminal.

Connecting Four Speakers

If you are using both front and rear speakers, set 4CH/2CH on the left side of the stereo to 4CH. Then connect the speakers to the supplied harness as follows.

1. Connect the harness' gray wire to the front-right speaker's positive (+) terminal.
2. Connect the harness' gray/black wire to the front-right speaker's negative (-) terminal.
3. Connect the harness' violet wire to the rear-right speaker's positive (+) terminal.
4. Connect the harness' violet/black wire to the rear-right speaker's negative (-) terminal.
5. Connect the harness' white wire to the front-left speaker's positive (+) terminal.
6. Connect the harness' white/black wire to the front-left speaker's negative (-) terminal.
7. Connect the harness' green wire to the rear-left speaker's negative (+) terminal.
8. Connect the harness' green/black wire to the rear-left speaker's negative (-) terminal.

CONNECTING TO OTHER COMPONENTS

You can connect other audio components (such as an equalizer/booster or amplifier) to your stereo's speaker or line level outputs. Check the component's owner's manual for instructions on connecting it to a stereo and to power.

If you want to turn the optional component on and off with the stereo, you can connect it to the stereo's dark blue/white wire (labeled AMP REMOTE TURN ON). This wire does not provide power to the component. It

simply turns it on or off. If you do not use this wire, use a wire tie to keep it out of the way.

If your vehicle has an automatic antenna, connect the AMP REMOTE TURN ON lead to the vehicle's power Antenna lead.

Note: The optional component must be designed for use with an amp remote turn on lead for the above connection. See the optional component's owner manual.

CONNECTING TO YOUR CAR PHONE

If you want the stereo's sound to mute when you use your car phone, connect the pink/white wire to your car phone's mute terminal.

CONNECTING TO POWER AND YOUR VEHICLE'S ANTENNA

1. Connect the stereo's black ground wire to a metal screw attached to the vehicle's frame. Be sure the screw is not insulated from the chassis by a plastic part.
2. Connect the stereo's yellow wire (with an in-line fuse holder and MEMORY BACKUP LEAD label) to your battery's positive (+) terminal or to a non-switched fuse terminal (a terminal that the vehicle's ignition does not turn on and off). This connection provides 12 volts of continuous power for the radio's memory and the security LED when the ignition is turned off.
3. Connect the wire labeled POWER LEAD B (+) (with an in-line fuse holder) to the accessory (ACC) terminal on your vehicle's fuse block.

This connection provides power to the stereo when you turn on the ignition, and turns off power when you turn off the ignition. This prevents your vehicle's battery from draining if you leave the stereo on and turn off the ignition.

4. Connect the vehicle's antenna cable to the stereo's large antenna connector.

When all connections are complete, reconnect the battery cable.

TESTING THE CONNECTIONS

After you connect the speakers, power wires, and antenna, turn on your vehicle's ignition and test the stereo to be sure it works.

If the stereo does not work, immediately unplug the harness. Recheck your connections or have a professional automotive audio installer complete the installation.

If the stereo works, disconnect the cable from the vehicle battery's negative terminal and continue with installation.

MOUNTING THE STEREO

IF your vehicle does not have a prepared opening for a flat face (DIN E) component, you must use an in-dash installation kit. Installation kits for many local Radio Shack store.

If you use an in-dash installation kit, follow its supplied instructions to mount the mounting sleeve.

If you are using an in-dash installation kit, follow these steps to mount the stereo.

1. Disconnect the cable from the vehicle battery's negative (-) terminal.
2. Temporarily disconnect the wiring harness and antenna.
3. Insert the mounting sleeve into the dash opening and secure it by bending the locking tabs out with a screwdriver.
4. Reconnect the wiring harness and antenna through the sleeve.
5. Slide the stereo into the sleeve until it locks into place.

Note: To further secure the stereo and ensure proper electrical grounding, attach the supplied hex bolt to the back of the stereo. Attach one end of the supplied metal strap to the bolt and the other end to an existing bolt on a solid metal part of the vehicle.

6. Reconnect your vehicle battery's negative cable.

REMOVING THE STEREO FROM THE DASH

1. Disconnect the negative (-) cable from your vehicle's battery.

2. If you attached the metal strap, release it.
3. Push the sleeve keys into the slots on the right and left of the front panel (with the tab facing up) until you hear a click.
4. Pull the keys out and down to remove the stereo.

Note: To remove the sleeve keys from the slots, press the RELEASE buttons located directly below the slots on the bottom of the unit.

5. Disconnect the wiring harness and the antenna cable.
6. Reconnect the battery's negative (-) cable.

RESETTING THE SYSTEM

If the stereo does not work when you first install it, or if it stops working, press RESET. This clears any programming except the station presets and the stereo should begin to work. If it does not work after you press RESET, take it to your local Radio Shack store for assistance.

SETTING THE CLOCK

1. Press BAND to turn on the stereo. After about 5 seconds, the display shows the clock.
2. Press and hold down DISPLAY.
3. While holding down DISPLAY, press << TUNE/SEARCH to set the hours.
4. While holding down DISPLAY, press TUNE/SEARCH >> to set the minutes.
5. When the display shows the correct time, release DISPLAY.

CONTROLLING THE SOUND

Use the control buttons to adjust the sound so it suits your listening preferences.

1. VOLUME-Press + or - to increase or decrease the volume. Vo appears in the display.

Warning: To prevent possible ear injury and hearing loss, do not listen at high volume.

2. BALANCE-Press SEL until B and O appear on the display. Press + or - to adjust the balance between left and right speakers. BR and a number appears on the display when the balance is shifted to the right. BL and a number appear when the balance is shifted to the left.
3. BASS-Press SEL until BA and a number appear on the display. Press + or - to adjust the level of bass signals.
4. TREBLE-Press SEL until TR and a number appear on the display. Press + or - adjust the level of treble signals.

5. FADER-Press SEL until F and O appear on the display. Press + or - to adjust the balance between the front and rear speakers (if you use both).

FF and a number appear on the display when the fader is shifted to the front. FR and a number appear when the fader is shifted to the rear.

6. MUTE- Press MUT until MUTE appears on the display. This reduces the volume by 20 dB. To return to the original volume, press 'MUT' again.

ENVIRONMENT PRESET MEMORY

You can store treble, bass, balance, fader, and volume settings so they can be recalled easily.

1. Repeatedly press SEL to select the control setting you wish to store, (The display shows TR, BA, B, F, and Vo in turn.)
2. Adjust the setting to the desired level, then press and hold one of three environment preset buttons (button 1, 2, 3) for more than 2 seconds.

Note: Button 4, 5, and 6 cannot be used for this memory.

3. Press 'SEL' and select the environment preset number again within 5 seconds to recall the stored setting.

DETACHING THE CONTROL PANEL

The detachable control panel and LED help to protect your stereo from theft. When you remove the panel, the red light flashes.

To remove the panel:

1. Press Release Up arrow. The left side of the control panel ejects.
2. Pull the panel's left side toward you. Take care not to put pressure on the display or drop the panel.
3. Keep the panel in the supplied protective case for safekeeping.

To re-attach the panel, push it into the main body, right side first.

Note: If the control panel is not set correctly, the control buttons will

not work.

Caution: Do not touch the contact on the control panel or on the stereo's body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them off with a dry cloth.

PLAYING THE RADIO

1. Turn on your vehicle's ignition. Press BAND to turn on the radio.
2. Press BAND to select the desired band (F1, F2, or F3 for the FM band; A1 or A2 for the AM band). Each time you press BAND, the radio automatically tunes to the last station you selected in that band.
3. Tune to the desired station manually by pressing << TUNE/SEARCH or TUNE/SEARCH >> to tune down or up the selected band. Or, press >> bar or bar << to automatically tune to the next strong station on the band.
4. Press ST/MO when an FM broadcast is noisy. The unit automatically switches between mono and stereo as you tune to different stations. ST appears on the display when you tune to an FM stereo station.
5. To turn off the radio, press OFF.

MEMORY TUNING

Your radio has two AM memory groups (A1 and A2) and three FM groups (F1, F2, and F3). You can store up to six stations in each memory group.

You can let the radio search for the next six stations on the band and automatically enter them into a memory group, or you can enter stations into a memory group manually.

Tune to a stored station by selecting the memory group and pressing the correct memory location button.

You can also scan the stations in a memory group.

Storing Stations Automatically

1. Turn on the radio.
2. Press BAND to select the desired band and memory group. For example,

select A1 to store the first group of AM stations.

3. Tune to the station which appears on the band immediately before the first station you want to store in memory.
4. Press and hold down AMS for 3 seconds. The system scans the selected band and then stores the next six strong stations. The memory location number and the station's frequency appear on the display for each stored station.

When it finishes storing stations, the radio begins scanning all stored stations. The channel number flashes and the radio tunes to each station for 5 seconds.

Note: The radio scans once for storing stations, twice for weaker stations and three times for weak stations. After that if all memory locations are not full, it continues storing previously stored stations until all locations are full.

Storing Stations Manually

1. Turn on the radio.
2. Press BAND to select the band and memory group. For example, select A1 to store the first group of AM stations.
3. Use any tuning method to tune to the station you want to store into memory.
4. Press and hold down the desired memory location number until the audio momentarily mutes.

The memory location number and the station's frequency appear on the display for each stored station.

Scanning Stored Stations

Press BAND to select the desired band and memory group. Press MS to scan the stored stations in that group. The radio scans the stored stations, pausing for 5 seconds at each station. When the radio pauses at a station you want to listen to, press MS again.

Note: Do not hold down MS. This sets the radio to automatically store stations into memory.

PLAYING A CD

Cautions:

- * The CD player has a wide dynamic range. As a result, if you turn your CD player's volume too high during soft (low volume) sections of a program, you might damage your speakers when a sudden loud passage occurs.
 - * if the CD player is jolted during play, the rotation speed might suddenly change or the CD player might make an unusual noise. This is not a malfunction.
1. Insert a compact disc (label side up) in the slot. The CD player turns on and starts to play the CD.

If a CD is already in the CD player, press >double bar to play the CD.

2. Adjust VOLUME, BALANCE, BASS, TREBLE, and FADER as desired.
3. To fast-forward through the selections on the CD, press TUNE/SEARCH >>. To reverse the CD, press << TUNE/SEARCH.

To change to the next or previous track, press >>bar or bar<<.

To pause playback, press >double bar. To resume play, press bar<<, >>bar, <<, >>, or >double bar.

Eject

Press EJ. The disc ejects and the radio turns on automatically (if it was on before you played a CD). If you do not remove the CD, it reloads automatically after five seconds.

Intro Scan

The into scan feature lets you scan a CD by playing the first 10 seconds of each track.

Press INTO to scan the tracks of the current CD. INT and the number of the next track appear on the display and the track plays for 10 seconds. The CD player advances to the next track, plays the track for 10 seconds,

then advances to the next track, plays it for 10 seconds, and so on.

To cancel into scan, press INTRO. INT disappears from the display and the CD player resumes normal play of the current track.

Repeat Play

You can play a selected track repeatedly. Simply press REPEAT while the track you want to repeat is playing. RPT appears on the display and the CD player repeats the track. To cancel repeat play, press REPEAT again.

Random Play

Press SHF (shuffle) to play all tracks on the CD in random order. "SHF" appears on the display. To cancel random play, press SHF again.

Programming and Playing a Sequence of Tracks

You can program the CD player to play up to 15 tracks in any order you choose, or to play the same track more than once.

Follow these steps to program a sequence of tracks:

1. Press PROG. The program number 01, the track number, PROG, and P appear on the display.
2. Press bar<< or >>bar to display the number of the track you want to program.
3. Press PROG again to store the selected track number in the first memory location. The track number disappears and the next program number appears on the display.
4. Repeat Steps 2 and 3 for each track you want to program, up to 15 tracks.

After programming, press PROG PLAY to play the programming sequence. PROG and the programmed track number appears on the display.

To clear the program memory, remove the disc, or press CLEAR for more than 2 seconds.

CD SECTION (At Line Output

Frequency Response (+/-3 db).....20-20,000Hz
S/N Ratio (A-WTD).....80 dB
Separation.....50 dB

AM RADIO

Frequency Coverage.....530-1710 Hz
IF.....10.7 MHz
Sensitivity.....20 Micro V (IHF usable)
Image Rejection.....50 dB

FM RADIO

Frequency Coverage.....87.5-107.9 MHz
IF.....107.7 MHz
Sensitivity.....2.0.microV (IHF usable)
Image Rejection.....60 dB
Stereo Rejection.....30 dB

GENERAL

Power Supply Voltage.....12 volts DC Negative Ground
Power Output.....16 Watts RMS per channel (2CH)
55 Watts RMS per channel (4CH)
Load Impedance.....4-8 ohms per channel
Current Drain.....6 Amps Max.

Dimensions.....2 1/4 x 7 3/8 x 7 9/16 inches (50 x 178 x 160 mm) (HWD)

Weight.....5.3 lbs (2.5 kg)

Specifications are typical; individual units may vary. Specifications are subject to change without notice.

Audio Connection Information
 (120-Series)

Plug/Male 2 Ch. System

Faxback Doc.# 19994

Pin No.	WIRE COLOR	WIRE SPECS.	LABEL	REMARK
1	WHT/BLK	AWG #20 2P CORD	FRONT L-	STRIP SOLDER
2	GRY/BLK	"	FRONT R-	"
3				
4				
5	BLACK	AWG 206	GROUND	6.3mm r FORK TERMINAL
6	ORG/WHT *	"	DIMMER	STRIP SOLDER
7	PINK/WHT *	"	PHONE MUTE	"
8	WHITE	AWG #20 2p CORD	FRONT L+	"
9	GRAY	"	FRONT R+	"
10				
11				
12	RED	AWG #20	+12 V TO IGNITION	250/ 1A FUSE & 24M/M TRANS STRIP SOLDER
13	YELLOW	"	+12 V TO BATTERY	250/ 1A FUSE STRIP SOLDER
14	DARK BLUE/ WHITE	"	AMP REMOTE TURN ON 500mA MAX +12 V OUTPUT	WIRE BANDING & TUBE HEATING

* May or may not be present depending on features of individual radios.

(2CH/4CH SWITCHABLE UNIT)

Pin No.	WIRE COLOR	WIRE SPECS.	LABEL	REMARK
1	WHT/BLK	AWG #20 2P CORD	FRONT L-	STRIP SOLDER
2	GRY/BLK	"	FRONT R-	"
3	GRN/BLK	"	REAR L-	"
4	VIO/BLK	"	REAR R-	"
5	BLACK	AWG 206	GROUND	6.3mm r FORK TERMINAL
6	ORG/WHT *	"	DIMMER	STRIP SOLDER
7	PINK/WHT *	"	PHONE MUTE	"
8	WHITE	AWG #20 2p CORD	FRONT L+	"
9	GRAY	"	FRONT R+	"
10	GREEN	"	REAR L+	
11	VIOLET	"	REAR R+	"
12	RED	AWG #20	+12 V TO IGNITION	250/ 1A FUSE & 24M/M TRANS STRIP SOLDER
13	YELLOW	"	+12 V TO BATTERY	250/ 1A FUSE STRIP SOLDER
14	DARK BLUE/ WHITE	"	AMP REMOTE TURN ON 500mA MAX +12 V OUTPUT	WIRE BANDING & TUBE HEATING

* May or may not be present depending on features of individual radios.

4 Chnl Unit

Pin No.	WIRE COLOR	WIRE SPECS.	LABEL	REMARK
1	WHT/BLK	AWG #20 2P CORD	FRONT L-	STRIP SOLDER
2	GRY/BLK	"	FRONT R-	"
3	GRN/BLK	"	REAR L-	"
4	VIO/BLK	"	REAR R-	"
5	BLACK	AWG 206	GROUND	6.3mm r FORK TERMINAL
6	ORG/WHT *	"	DIMMER	STRIP SOLDER
7	PINK/WHT *	"	PHONE MUTE	"
8	WHITE	AWG #20 2p CORD	FRONT L+	"
9	GRAY	"	FRONT R+	"
10	GREEN	"	REAR L+	
11	VIOLET	"	REAR R+	"
12	RED	AWG #20	+12 V TO IGNITION	250/ 1A FUSE & 24M/M TRANS STRIP SOLDER
13	YELLOW	"	+12 V TO BATTERY	250/ 1A FUSE STRIP SOLDER
14	DARK BLUE/ WHITE	"	AMP REMOTE TURN ON 500mA MAX +12 V OUTPUT	WIRE BANDING & TUBE HEATING

* May or may not be present depending on features of individual radios.

5-Pin DIN

FRONT

Green	Right (+)
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White	Right (-)
Brown	Left (+)
Gray	Left (-)
Red	+12 V Power

REAR

GRN/BLK	Right (+)
WH/BLK	Right (-)
BR/BLK	Left (+)
GRAY/BLK	Left (-)

Orange	S.P.L.
Black	Ground
Red w/ White	Memory Backup

(smm/ir-06/12/95)
LN-03/04

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