USA-66

Classic Mustang
CUSTOM MADE FOR 1966 Mustang AM-FM Option
MANUAL TUNED AM/FM RECEIVER

Owner's Manual

(with added features)

MANUAL TUNED AM/FM RECEIVER, CD CHANGER CONTROLLER
CUSTOM MADE FOR "Classic Mustangs!"

◆ CHANGER CONTROLLER
◆ RCA PRE-AMP OUTPUTS
◆ AUXILIARY IN
◆ POWER ON/OFF & VOLUME
◆ FRONT/REAR FADE
◆ AUTO ANTENNA DRIVE LEAD
◆ POWER CONTOUR & VOLUME
◆ LEFT/RIGHT BALANCE

Limited Warranty

If your product does not work properly because of a defect in material or workmanship, Custom Autosound Mfg., Inc. (the Company) will for the length of the period indicated on the chart below, which begins on the date of purchase, repair or replace it with a new or refurbished product. The decision to repair or replace will be made by the Company.

High Power 200 Watts (50 x 4)

During the "Labor" Limited Warranty period there will be no charge for labor.
During the "Parts" Limited Warranty period, there will be no charge for parts.

This Limited Warranty is extended only to the original purchaser of the product and is non-transferable.

To obtain repairs or replacement within the terms of this warranty, the product should be delivered, transportation prepaid, to the Company at the address shown below. This warranty does not apply to any product or part thereof which has been damaged through alteration, mishandling, misuse, neglect, or accident.

Any implied warranty is limited to the duration of this written warranty. Under no circumstances shall the Company be liable for any loss or damage, direct or consequential, resulting from the use of this product. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of consequential damage, so the above limitations or exclusions may not apply to you.

If your product does not work properly because of a defect in material or workmanship, the Company will repair or replace it at no charge to you. The Company is not responsible for installation, setup, or removal costs.

For warranty service, contact the Company at:
1030 W. Williamson Ave. Fullerton CA. 92833
800-888-8637  714-773-1423 FAX 714-773-1523

Limited Warranty

<table>
<thead>
<tr>
<th>Product or Part Name</th>
<th>One (1) Year</th>
<th>Two (2) Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>All In-dash car radios, accessories</td>
<td>Labor</td>
<td>Parts</td>
</tr>
</tbody>
</table>

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This Limited Warranty is limited to the duration of this written warranty. Under no circumstances shall the Company be liable for any loss or damage, direct or consequential, resulting from the use of this product. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of consequential damage, so the above limitations or exclusions may not apply to you.

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Custom Autosound
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Radio Specifications

FM Section

- Tuner Type: PLL
- Frequency Range: 87.5-108 MHz
- Image Rejection: 50 dB
- Quieting: 1%
- IF Rejection: 60 dB

AM Section

- Frequency Range: 530-1710 KHz
- S/N Ratio: 50 dB
- Selectivity: 25 dB

Audio Section

- Output Channel: 50 X 4
- Output Impedance: 4 ohm per speaker
- Response: 30 Hz - 18 KHz

General

- Power Supply: 12VDC Negative Ground
- Speaker impedance: 4-8 ohm
- Stand-By Current: 0.02 A
- Chassis: 180 mm (7 7/8") (W) X 70 (2 1/4") mm (L) X 150 (5 5/8") mm (D)

IF Frequency: 10.7 MHz
- Sensitivity: 2.6 V/S/N Ratio: 60 dB
- Capture Ratio: 1.5 dB
- Separation: 35 dB
- THD: 0.5%
- System Power: 200 Watts

Detailed Specifications

- Troubleshooting
- Noise Suppression
- Aux Input Operation
- CD Changer Operation
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- Controls and Display
- Wiring Diagram
- Low Level Output Connection
- Radio Connections
- General Installation

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO Lights, NO Sound</td>
<td>Power Lead: Red Wire not connected or Power not getting to radio</td>
<td>Check fuse in filter box. Check all connections on this wire and verify that radio is getting 12V on this wire.</td>
</tr>
<tr>
<td>Lights but No Sound</td>
<td>Power Lead: Orange Wire not connected or power not getting to radio</td>
<td>Check fuse in filter box. Check all connections on this wire and verify that radio is getting 12V on this wire.</td>
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<td>Lights Displayed but No Sound</td>
<td>Problem with a speaker or speaker wire</td>
<td>Verify all speakers used are 4 ohm or greater. Verify that none of the speakers are going to ground. Verify that none of the speaker wires are shorting to themselves or ground.</td>
</tr>
<tr>
<td>Sound only heard on one side</td>
<td>Noise with Radio Reception</td>
<td>Check all connections. Adjust balance control to center position. Extend antenna to full length. Back vehicle out of garage and test again.</td>
</tr>
</tbody>
</table>
Thank you for your purchase of a Custom Autosound radio. This AM/FM receiver is specifically designed and manufactured for your classic Mustang. It is a reflection of over 29 years of customer feedback regarding preferred features, vehicle compatibility, cosmetics and quality components.

The quality of the components and various parts that are used in our radios were developed in a California audio research laboratory. The laboratory researched and assembled the finest affordable CD controller radio tuner and amplifier sections.

Custom Autosound and its staff own over 16 classic special interest cars and trucks. These vehicles are used for research and development, car shows meets and much personal pleasure. We find that our custom radios only sound as good as the speakers they are matched with and quality installation.

We also manufacture a full line of Mustang rear dual front and dual voice coil speaker assemblies to fit in the original speaker areas. Also available are replacement kick panels, sound deadening, vehicle wiring and connectors for various makes, years, models, and modifications. Check out our web site!

Antenna Noise
A static or crackle heard through the speakers, usually when the car is running but not moving. This AM/FM radio may cause a crackling static if present. Follow the steps below to confirm the antenna as the source of the noise:

Elimination
1. Install a L.C. Filter Network in the power leads of the USA-66. The filter should be rated at a minimum of 3 amps.
2. Inspect spark plug and distributor noise filters as these can create more static interference. Use filters only. Do not use spark plug or distributor noise filters as these can create more problems than they can solve. They decrease the quality of the spark generated by the spark plugs and they may create more static than they eliminate.

Accessory Noise
A popping heard when the lights turn indicators, windshield wipers, cigarette lighter, etc. are switched on. This noise can be eliminated by switching off the accessory. The noise may be created by the accessory. The noise may be created by the accessory.

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Ignition Noise
A snapping or crackling noise heard through the speakers. The noise will vary as the engine rpm varies. This noise can be caused by a bad spark plug or distributor.

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Thank you for your purchase of this Custom Autosound product!

Owner-Installer: Please review installation instructions and owner's manual. Keep in mind that your radio and/or speakers are custom equipment designed specifically for your year vehicle. It should be handled carefully and installed preferably by an auto radio specialist. We do not recommend that you do it yourself because it can cause damage to your radio and/or speakers.

Please read the owners manual thoroughly before using your radio. It is recommended that you disconnect the negative lead from the battery before installing any electronic equipment in your vehicle. Reconnect when wiring is complete.

First, you will need to remove the original knobs and shaft nuts. Unplug the main wire harness and speaker leads from the back of the radio. Disconnect antenna lead and remove mounting strap from the back of your USA-66. This is a simple L-C noise filter (available from your nearest Autosound dealer or your nearest electronic supply store). Follow manufacturer's instructions. This filter is installed in the power lines of the car stereo system.

Noise Suppression

1-Check all ground connections. Remove paint away from painted surfaces to secure a good electrical ground.

2-Check battery posts. If contacts are corroded or loose, clean and tighten both terminals.

3-Check battery or add fluid.

4-Check condition of spark plug and distributor leads. Worn or damaged leads will generate noise that can be very difficult to eliminate.

5-Check installation of factory noise suppressor(s). Verify that the connections are secure. Refer to the vehicle's service manual or allow a qualified mechanic to inspect the device(s) for you.

6-(Optional) Some professional installers will install a simple L.C. noise filter even if there is no noise present in the system. This is a simple and inexpensive device available at your nearest Autosound dealer or electronic supply store. Most filters designed for car stereos carry a current rating of 3 amps or more. Follow the manufacturer's instructions. This filter is installed in the power lines of the car stereo system.

Sources Of Electrical Noise

Alternator Noise

This noise is generally a high pitch when present when engine running. The pitch of the noise is generally a high pitch when present when engine running. The pitch of the noise is generally a high pitch when present when engine running. The pitch of the noise is generally a high pitch when present when engine running. The pitch of the noise is generally a high pitch when present when engine running.

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Sourc…
Power and Speaker Connections

**Low Level Output (Line Out Jacks) Connection**

The USA-66 is equipped with low level, high impedance outputs. If connecting an amplifier or planning on it in the future, use the low level outputs (RCA type Line Out Jacks) for a cleaner and easier installation.

**Receiver Basic Operation**

1. Switch the receiver “ON” by rotating the VOLUME CONTROL (1) clockwise.
2. Select the receiver mode by switching the AM/FM SLIDE SELECTOR (5) to the desired position.
3. Tune the receiver by rotating the TUNING CONTROL (7) in either direction. View the station selected on the TUNING DIAL (4).
4. Adjust the left to right speaker balance by pushing in and rotating BALANCE CONTROL (1).
5. Depress the FUNC button (8) to toggle the functions of the receiver. The sequence indicator will be: Radio (Red LED)—CDC (Blue LED)—AUX (Green LED)—“Radio (Red LED).”

**CD Changer Operation**

1. With CD magazine in place, press the FUNC button (8). “AUX” indicator until Green LED light is on.
2. To select a disc, press CD-UP (9) or CD-DOWN (10) until the desired disc is selected.
3. To select a track, press T-UP (11) or T-DOWN (12) to the desired track.
4. Adjust the volume (1) on the USA-66 to the desired level if the volume level of the CD changer or radio is not the same.
5. Adjust the volume level of the USA-66. AUX indicator will light if the portable device is connected.
6. Depress the FUNC button (8) (on the USA-66). AUX indicator will light if the portable device is connected.

**AUX Input Operation**

This feature is for connecting an optional portable audio device such as: CD/MP3/TV/DVD/Satellite radio etc. The USA-66 also allows for the AUX signal to be output so that if the style of connector on your portable device is not the style of connector on the USA-66, you may need to purchase the appropriate cables.

1. Depress the FUNC button (8) on the USA-66. “AUX” indicator until Green LED light is on.
2. Adjust the volume (1) on the USA-66 to the desired level. If the volume level of the radio and the portable device are not the same, you may need to adjust the volume level of the portable device.
3. Depress the FUNC button (8) on the USA-66. AUX indicator will light if the portable device is connected.

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**Low Level Output (Line Out Jacks) Connection**

The USA-66 is equipped with low level, high impedance outputs. If connecting an amplifier or planning on it in the future, use the low level outputs (RCA type Line Out Jacks) for a cleaner and easier installation.
1. ON/VOLUME/PUSH BALANCE CONTROL
2. TREBLE/PUSH-BASS CONTROL
3. RADIO-CDC_AUX INDICATOR LED
   Green=AUX-IN  Blue=CDC  Red=Radio
4. TUNING DIAL
5. AM/FM SLIDE BAR SELECTOR
6. FRONT / REAR SPEAKER FADER
7. UP DOWN TUNING CONTROL
8. RADIO FUNCTION SELECT (RADIO-CDC-AUX)
9. CDC DISC UP
10. CDC DISC DOWN
11. CDC TRACK UP
12. CDC TRACK DOWN

COMPACT DISC OPTION

Once you become familiar with the button features remove the button labels to get that OEM look you want.

NOTICE!  Do not push buttons with force!

Notice! Pushbuttons do not pull out as in the original 66 AM-FM. They do not allow presetting of stations. Pushbuttons only control functions number 8 through 12.

COMPACT DISC OPTION

By adding Custom Autosounds 10 disc CD changer part # USA-CD10, you can enjoy many hours of music and operate all controls of the CD changer.

CONNECTION FOR OPTIONAL CUSTOM AUTOSOUNDS 10 DISC CHANGER