



**FORD/LINCOLN/MERCURY HARNESS USED WITH
AHDH-01 AND AHDH-01**

AHDH-FD6

Installation Instructions

APPLICATIONS

FORD

Crown Victoria 2003-07
Escape 2004-07(Amplified System Only)
Expedition 2003(Late Production)-06
Explorer w/Audiophile sound system 2004-05
Freestar 2004-2006

LINCOLN

Aviator 2004-2005
LS 2004
Navigator 2004-2005
Towncar 2003-2007

MERCURY

Grand Marquis 2003-2005
Marauder 2003-2004
Monterey 2004-2005

**** READ IMPORTANT WARNING BEFORE ATTEMPTING ANY INSTALLATION***

*** IMPORTANT WARNING**

THIS PRODUCT INCLUDES INSTRUCTIONS FOR INSTALLATION WHICH MUST BE CAREFULLY FOLLOWED. THE INSTRUCTIONS ARE WORDED IN SUCH A MANNER TO ASSUME THAT THE INSTALLER IS CAPABLE OF COMPLETING THESE TYPE OF ELECTRONIC INSTALLATIONS.

IF YOU ARE UNCLEAR AS TO WHAT YOU ARE INSTRUCTED TO DO OR BELIEVE THAT YOU DO NOT UNDERSTAND THE INSTRUCTIONS SO AS TO PROPERLY AND SAFELY COMPLETE THE INSTALLATION YOU SHOULD CONSULT A TECHNICIAN WHO DOES HAVE THIS KNOWLEDGE AND UNDERSTANDING.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAREFULLY AND TO INSTALL THE INTERFACE AS DESCRIBED COULD CAUSE HARM TO THE VEHICLE OR TO SAFETY SYSTEMS ON THE VEHICLE. INTERFERENCE WITH CERTAIN SAFETY SYSTEMS COULD CAUSE HARM TO PERSONS AS WELL.

IF YOU HAVE ANY QUESTIONS IN THIS REGARD PLEASE CALL THE HELP LINE OR THE METRA AT:
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1-800-221-0932



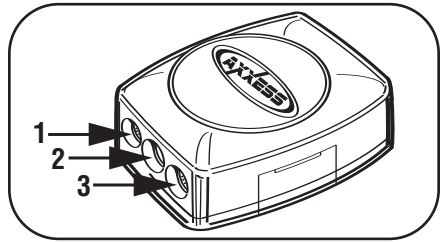
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PORT OVERVIEW

- 1) This port is used with the optional XIA-LCD display.
- 2) This port is used with the HD cable included with AHDH-T01 tuner.
- 3) This port is used with the iPod cable XIAH-IPC or the AUX IN cable XIAH-RCA.



Section 1. - OPERATING INSTRUCTIONS

INTRODUCTION

The AHDH-FD6 is to be used along with the AHDH-T01 HD Tuner and the AHDI-D01 domestic HD interface (all sold separately) in the vehicles listed above. An iPod may also be connected by using the XIAH-IPC iPod cable (sold separately). The OEM radio will control the functions of the HD Tuner and the iPod through the buttons on the radio. Also for those radios that do not display text, the XIA-LCD display screen (sold separately), may be added to display the HD and iPod text information.

The AHDI-D01 emulates an OEM Satellite receiver.

The Ford radios vary in what buttons they have. This manual covers as many buttons as possible. The factory radio most likely will not have all the buttons listed, however, the definitions of the buttons displayed on the radio will still be valid.

2. INITIAL POWER CONNECTIONS

When the unit is first connected to the car battery, the installer must cycle the radio on and off at least 3 times, pausing each time for about 6 seconds. This is needed for the unit to synchronize with the external equipment such as iPod and HD tuner. Also, due to differences in 2005 and 2006 models of the radios and the need to differentiate between them, **the installer must cycle the ignition OFF and ON after first providing power to the AHDI-D01, and the unit will function as expected.**

3. RADIO OPERATION

There are some differences between the 2005 and 2006 Ford model radios in their operation.

Some of these differences are:

1. In the 05 model, the normal display will contain a maximum of 8 characters while in the 06 models the maximum is 12.
2. In the iPod mode, after a song finishes and a new one starts, the number displayed should advance automatically. In the 06 models this is the case; but in the 05 models, the head unit normally does not allow this change. The user may see an "Invalid Channel" message displayed for a short time, this is a normal operation for these model radios when using the AHDI-D01 interface.



3. The use of the Shuffle and Browse modes in iPod mode(to be described later) in the 2005 models gets more complicated since the head unit does not send a command that a preset key is selected if the user is already in that station. For example to activate the shuffle mode, the user must program a preset key to “channel 1”. If the user selects this preset, the unit will be in shuffle mode (a “*” as the first character). In shuffle mode the song numbers get re-numbered starting at 1. If the user wants to de-select the shuffle then, it must make sure that the unit is not currently playing song number 1 by advancing to the next song using the SEEK > , then turning off the shuffle mode.

NOTE – If the user is currently playing the iPod and then selects AM/FM or CD, the iPod will not pause but will keep playing. To properly “pause” the iPod, the radio must be turned off and on. This is due to the lack of proper messages from the head unit indicating the new device selection.

The “REW” and “FF” are not applicable since the selector is used as the “TEXT” selector for text retrieval in the 05 models and presets 3 and 4 in the 06 models.

To switch between HD radio and iPod, turn the radio off and on. Keeping it off for at least one second.

FOR HD RADIO OPERATION

The Head Unit displays the station ID number in the top line and the station short name (max 8 characters) in the line below. At the end of this document the station ID number is shown how it correlates to each HD-AM and HD-FM station. This station ID is necessary for the implementation of presets for the HD radio. The “SEEK > or < SEEK” keys will select the next or previous channel respectively. The message “SEEK SAT” will momentarily appear when either one is pressed.

To display more information about the song currently playing, the user may press the “TEXT > to display the first 12 characters of the song title. More characters follow if two dashes (-) are displayed at the end. The user simply presses the TEXT > again to read the remaining information if available.

After about 5 seconds, the display will revert to the original (short station name). If the user presses the TEXT > again, the display will now show the category name.

To switch between the satellite bands (Bands SAT1, SAT2 and SAT3) press the “SAT” key. A small icon in the display will show the current band.

Presets 1-6 will store 6 presets (by pressing and holding the selected key for more than 2 seconds) or recall the saved selections (for less than 2 seconds) for each of the SAT bands.

FOR IPOD PLAYERS

The radio displays the song number in the current playlist in the top line and the first 8 characters of the song name in . The “SEEK > or <SEEK” keys will select the next or previous song respectively. The message “SEEK SAT” will momentarily appear.

The user can advance through Playlists by pressing the CAT > or < CAT key (also labeled as DISC-TUNE). The display will momentarily indicate a “Playlist” message. The user may select this feature by pressing the SEEK > .

Pressing the SEEK > will advance to the next Playlist and pressing < SEEK to the previous Playlist. The user is made



aware that it is currently advancing through Playlists since the message “SEEK PLST” will momentarily display when changes are made and a small “CAT” indicator may be displayed.

To go back to changing via numbers, press the <CAT > until “CATEGORY OFF” is displayed then press SEEK > to de-activate the Playlist search.

Presets 1-6 of each band are unavailable in iPod mode except in browse mode, which is described later on.

WARNING – There is nothing to stop the user from programming a pre-set key, since this is a function of the radio. If the user sets a preset key while in iPod mode then in HD Radio, that preset key may select a new station number.

NOTE -3 for 2005 models, a momentary message “INVALID CHANNEL” might be quickly displayed when there is a change in song status. This message should be ignored unless is displayed for more than one second. In that instance use the < SEEK > to advance to next available song.

FEATURES - BROWSE MODE

There is a built-in feature (Browse Mode) that allows the user to browse and make a new selection based on the following criteria. It is optional. To activate this feature, the user must give up any 2 preset keys in **one SAT band** (unusable in XM) and pre-program the keys for the following. The preset number is for demonstration purposes only. It can be any of the 18 preset keys.

PRESET 4 – ESCAPE - set to song number 3

PRESET 3 – ENTER - set to song number 2

To enter the Browse mode, the user MUST first display current text using the SEL_TEXT (or REW-REW TEXT) key and then within 3 seconds, press the preset key previously set as ESCAPE (). This is to prevent accidental activation of the Browse mode.

Any time the user enters the browse mode, the SEEK > acts as the search UP function and < SEEK as search DOWN. This is until the Browse mode is exited.

NOTE 4 - In some Head Units, especially the 06 models, anytime a preset key is entered a display such as PRESET 4 is shown for a couple of seconds. Also anytime the < SEEK > is pressed, the message “SEEK SAT” is displayed. These are functions of the head unit and cannot be avoided.

Moving within SAT bands while in iPod does not have any effect except for programming the preset keys. The user must be in the same SAT band as the one which was chosen to set pre-selects above, <ENTER> and <ESCAPE>.

NOTE 5 – For 05 models only --- Because the head unit will not send a preset key was pressed if the currently playing Song is preset to the key the current song is playing must be other than 2 or 3 to . Songs 2 and 3 are reserved for “Enter” and “Escape” in the mode.

Pressing Preset 4(ESC) allows the user to enter the Browse Mode. Categories for Browsing are: Albums, Genres, Playlists, Artists and Albums. The user knows it is currently in the browse mode by the displaying of one of the above categories. The user scrolls between the categories using the< SEEK >. Once the desired category is displayed, select it by pressing Preset 3 (ENTER) to enter this mode. Scroll through the sub-category using the <SEEK> keys and again select the desired action using ENTER. The user can back out of a selection or completely out of the browse mode by pressing PRESET 4 (ESC).

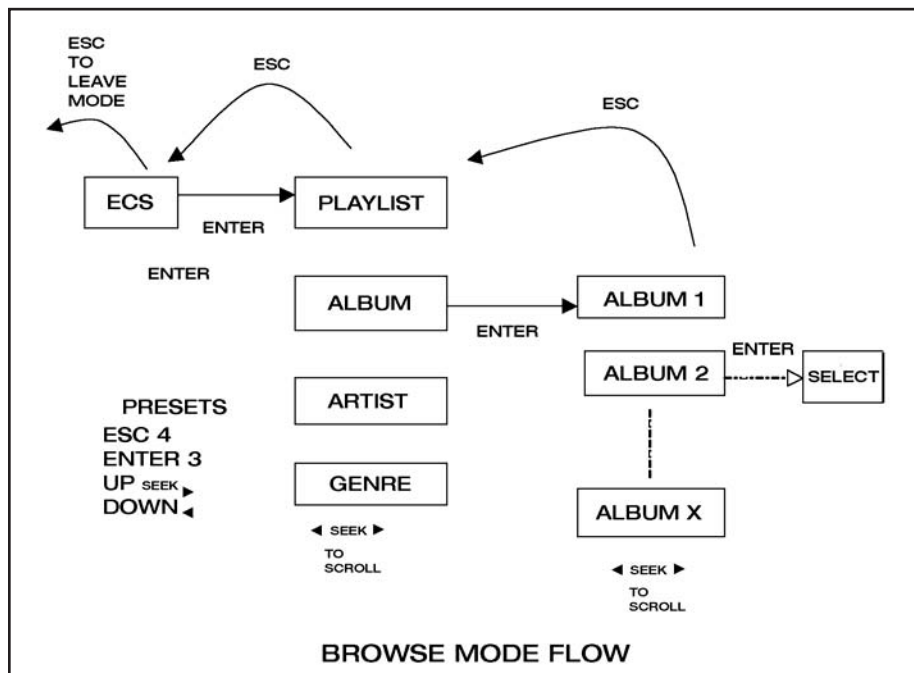
FEATURES - SHUFFLE MODE

An additional feature can be provided if any preset key is programmed for “channel 1” – In the 06 models PRESET 1 is actually labeled as “SHFL” so PRESET 1 is suggested to be used.

To enter the Shuffle mode, the user **MUST** first display current text using the SEL_TEXT (or REW-FF TEXT) key and then within 3 seconds, it must press the preset key previously set as SHUFFLE (1). This is to prevent accidental activation of the Shuffle mode.

In shuffle mode, the iPod will randomly shuffle the songs according to the last browsing mode chosen, such as within a Playlist, Album, Artist, etc. (default is Playlist). Pressing “PRESET 1” once will allow the activation of this mode indicated in the display by the special character “*” in the first position of the display text.

NOTE 6 – For 2005 models only ----- Since the head unit does not send out a command when a preset key is pressed and the currently playing Song is preset to that key, the current song playing must be other than 1 to activate or de-activate the shuffle mode.





SECTION 2 - FORD RADIO BUTTON DESCRIPTION **CONTROLS FOR THE FORD RADIO SAT MODE**

Button	Description of Function
ON/OFF	Turns the radio off and on. When the SAT mode is selected, turning the radio off and on is the only way of changing into the next mode & selects the next device. It will scroll through Analog AM and FM and then the current SAT device. The current SAT device will alternate between HD-AM and HD-FM. If an iPod is attached, then it will alternatively be chosen in the following order : HD-AM > iPod > HD-FM > iPod
SAT	Selects the SAT1, SAT2, & SAT3 bands of the current playing mode (iPod or HD). This unit does not switch the current playing mode when cycling through the SAT bands.
<TUNE CAT>	In iPod mode, the user can select Playlist OFF or ON (ignore the system message CATEGORY OFF). Selecting Playlist on & then pressing SEEK > allows the user to change by playlist and < SEEK selects the previous one.
SEEK	Seeks up & down the HD stations while in HD mode. In iPod mode this will go to the next and previous song in the playlist or to the next & previous playlist depending on the CATEGORY setting. In iPod browse mode these buttons scroll up & down through the available selections.
SCAN	Scans up through the channels in HD and scans through the songs in iPod mode.
Presets	In HD Radio mode they act the same as analog radio stations. In iPod mode, two of the buttons are mapped to the ESCAPE, ENTER, and SHUFFLE MODE functions as described earlier in this document.



HD STATION ID NUMBERS
THAT ARE DISPLAYED ON THE RADIO

<u>HD-AM</u>	<u>Radio ID#</u>	<u>HD-FM</u>	<u>Radio ID#</u>
530	53	87.7	180
540	54	87.9	181
550	55	88.1	182
...	...	88.3	183
980	98	88.5	184
990	99	88.7	185
1000	100
1010	101	99.5	239
1020	102	99.7	240
...	...	99.9	241
1650	165	100.1	1
1660	166	100.3	2
1670	167	100.5	3
1680	168	100.7	4
1690	169	100.9	5
1700	170	101.1	6
1710	171
		107.1	36
		107.3	37
		107.5	38
		107.7	39
		107.9	40

AHDH-FD6 INSTRUCTIONS



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