



BT6-FRD04

QUICK START BLUETOOTH & SMART MEDIA INSTALL GUIDE FOR SELECT 2004-10 FORD

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PRODUCT SAFETY & DISCLAIMER

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY

- This installation guide is provided as a GENERAL installation guide; some vehicles vary and may require additional steps. We do not accept responsibility for third party labor charges or modifications. Exercise due-diligence when installing this product.
- We do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product.
- Careless installation and operation can result in equipment damage.

Requirements:

2004-10 FORD CAN-BUS RADIOS (AUX- BUTTON ON FACEPLATE)

Introduction

They are literally thousands of older Ford vehicles on the road today with the original CAN-BUS radio in place that unfortunately do not support any of the modern media formats many would love to have in their cars. Upgrading these radios to support Bluetooth is a great way to bridge the gap. The BT6-FR004 smart media module does not only support Bluetooth hands-free and music streaming, but also able to play MP3/WMA/FLAC/ACC/WAV/AIF/AIFC files stored on a USB flash drive and best of all, uses are able to control music files directly from the familiar radio/steering wheel buttons. The radio display screen will also display track name.

In addition to wireless; an AUX input jack is included to which users may connect any portable music player designed to be used with headphones (e.g. MP3, iPod etc.) Installation could not be simpler and only requires connecting module to the 16-pin D changer socket on the back of the radio, pairing Bluetooth device and be on your way to enjoying music, navigation, audio books and other important applications from smartphone on the car system! Because this module uses the "SAT" port, factory options (if present) must be disconnected.

Warning!! All compatible radios must have an "AUX" button on faceplate and 16-pin port on the back.

Frequently Asked question at the end of this guide for more details.

Installation

1. Remove radio to gain access to the connector – Vehicle specific radio removal is not part of this guide but available upon request.
2. With radio out; locate and unplug the factory 16-pin cable (See **Fig. 1**) from radio (See **Fig. 2**)

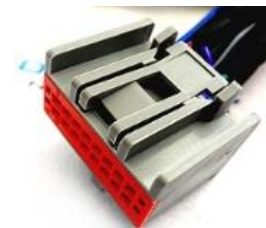


Fig. 1

3. Plug the installation harness 16-pin male terminal to the matching 16-pin port on radio (vacated in step 2) See **Fig. 2**



Fig. 2

4. Take the 16-pin factory terminal (See **Fig. 1**) and connect to installation harness matching 16-pin female terminal **Fig. 3**



Fig. 3

5. Tap/splice/solder installation harness RED wire to Green/white* (PIN 2) on factory 24-pin plug (See **Fig. 4**) or any switched 12V supply.

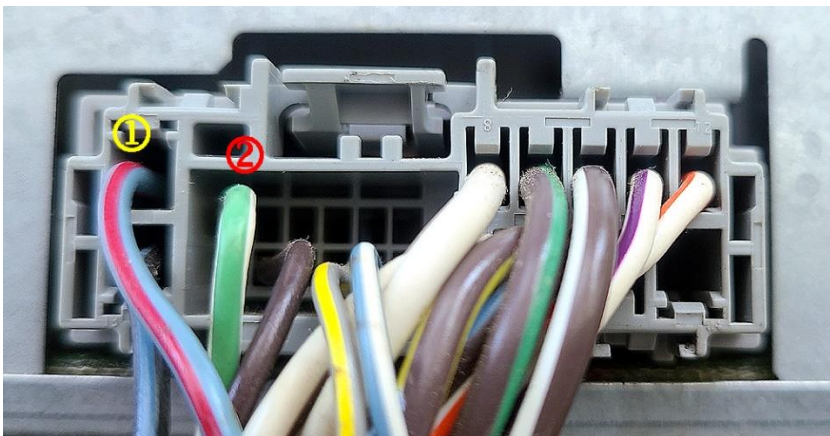


Fig. 4

Ford 24-pin Power/Speaker plug

***Note:** Ford OEM wires colors may vary, however the ACC pin location is the same (PIN2) as noted in **Fig. 4**

6. Tap/splice/solder installation harness **Black** wire to Black/Violet (PIN 13) of factory 24-pin plug (See **Fig. 4**) or attach to the radio using one of the chassis Torx screws.



Fig. 5

7. Secure microphone to headliner or visor using included clip (See **Fig. 6**)
8. Route microphone cable (10 ft. long) down side pillar, under steering column and into radio cavity,

9. Connect microphone 3.5mm plug to the module "MIC" input. (See **Fig. 7**)
Wind noise will negatively affect phone audio. Users are advised to install microphone away from wind/ventilation ducts etc.



Fig. 6



Fig. 7

10. Plug installation harness 16-pin plug (See **Fig. 8**) to module 16-pin connector (See **Fig. 7**) Make sure plug is fully inserted and locked in place.



Fig. 8

Optional USB extension cable installation

Note: a. Optional 6 ft. USB dash mount extension cable is not required for operation, however it extends USB charging and smart media ports (See Fig. 12) to dashboard, glovebox etc.

- b. The USB media port (See Fig. 12) supports music playback and software updates only (Not for charging)
1. Drill a $\frac{3}{4}$ " hole to dash or panel using a step drill bit or equivalent (See Fig. 10)
As an alternate, use the included bracket (See Fig. 15) to mount USB without drilling.



Fig. 10

2. Fish USB cable terminal (See Fig. 11) through hole created in step 1 and plug into USB port on module (See Fig. 12)



Fig. 11



Fig. 12

3. Snap header (See Fig. 13) to surface until flush (See Fig. 14)



Fig. 13



Fig. 14



Fig. 15

Tuck and secure any extra wires from moving parts and proceed to next step

Pairing module

Pairing varies among devices but basic steps are the same. This process is done upon initial install and will not have to be repeated

1. Turn ignition and radio "ON"
 2. From your Bluetooth enabled device, turn the Bluetooth ON and search for Bluetooth devices.
 3. When a list of available Bluetooth devices appears on your Bluetooth device, select "DisCarSt" (See Fig. 16)
 4. Confirmation "tone" is heard on car speakers.
 5. The unit will automatically enter the BT Audio source and you can now start streaming audio from your Bluetooth enabled device.
- Note: If the mobile phone doesn't support SSP (Simple Secure Pairing) Profile, please enter the pass code of "0000"

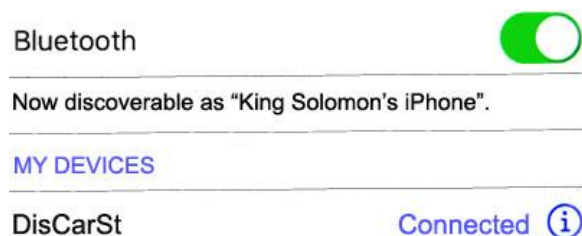


Fig. 16

Bluetooth operation:

1. Turn ignition switch and radio "ON"
 2. Press the radio "AUX" button to enter Bluetooth mode. See Fig. 17
- Note:** AUX button will cycle through SAT1, SAT2, SAT3



Fig. 17

3. Launch music streaming application
4. Ensure smart device volume is set to 95% or higher
5. **To skip tracks:** Tap the "SEEK >" or "< SEEK" buttons on radio and/or steering wheel (See Fig. 18)



Fig. 18

6. Place test phone call or ask someone to call.
- Alert:** Ensure radio is in "SAT" mode otherwise press "AUX" button
7. To accept, tap "< SEEK" on radio or steering wheel (See Fig. 19)
 8. To reject, tap "SEEK >" on radio or steering wheel (See Fig. 19)



Fig. 19

9. Adjust call volume with radio or steering wheel VOL control.
10. If correct operation is confirmed go ahead and reinstall radio.

Notes:

- Pause media streaming directly from audio device (e.g. smartphone)
- Additional load to electrical system in older vehicles can result in alternator whine or similar noise. We recommend purchasing and installing this [noise filter](#)

Flash media functions

1. Formatting

Before loading files/folders we recommend formatting flash drive etc. to **FAT16 or FAT32** after which you may then save music files (MP3, WMA, FLAC, ACC etc.) to designated folders as explained next.

2. Folder naming: (This is important)

When flash drive is connected for the first time; the module loads all available folders.

You may create a single folder or multiple folders (Albums).

The easiest way to transfer files from computer to USB after formatting drive is by locating music files on your hard drive and drag-and-drop them to desired folder on flash drive.

3. Other important notes/cautions:

- Supports MP3 and WMA compression up to 320Kbps
- MP3/WMA files over 320Kbps may not be recognized or played.
- Not compatible with some new generation high-speed USB sticks.
- Recommended disk size: 16GB
- Any number of songs and folders are supported
- Subfolders are not supported
- Streaming does not support last memory position
- Saving files (over 50MB) in any folder may cause intermittent operation
- Playback order based on how files were created
- When last track in any given folder has finished, the first track in same folder will start playing automatically.
- If track up or track down button is pressed quickly in repetition, track number displayed may change unevenly
- If radio enters CDC mode but nothing plays, please check/change USB stick and cycle ignition

Media operation

1. Turn ignition and radio "ON"
2. Press the "AUX" button to enter "Bluetooth" mode
3. Connect flash drive (not included) to USB port (See Fig. 21)



Fig. 20



Fig. 21

4. Playback will begin from Folder 1 track 1 or continue from last memory position
5. **To Track Up/Down:** Tap the right SEEK button for next selection in folder. Press the left SEEK button for the previous selection in folder See Fig. 22



Fig. 22

6. Album (Folder) Selection (MP3 radios)

- Tap the **FOLDER>** button (Preset 4) to skip to the next folder (See Fig. 23)
- Tap the **<FOLDER** button (Preset 3) to skip to previous folder (See Fig. 23)
- Folder name is displayed briefly followed by the track name. (See Fig. 20)



Fig. 23

Album (Folder) Selection (NON-MP3 radios)

Tap the tune button UP button to skip to the next folder (See Fig. 24)

Tap the tune button DOWN to skip to the previous folder (See Fig. 24) Folder name is displayed briefly followed by the track name. (See Fig. 20)



Fig. 24

AUX playback

The Auxiliary Input Jack provides a way to connect any portable music player designed to be used with headphones to the module. This allows the audio from a portable music player to be played through the vehicle speakers with high fidelity.

Attach one end of the included audio extension cable to the headphone output of your player and the other end of the audio extension cable to the AUX in port on the module (See Fig. 25) To listen to AUX device; disconnect memory card from module USB port and pause streaming application or un-pair streaming device

Warning: AUX playback no possible if USB memory port is occupied.



Fig. 25

Feature comparison

Bluetooth hands-free and streaming and smart media modules

Feature	BTH-FORD	BT3-FORD	BT6-FORD	BTH-FR004	BT3-FR004	BT6-FR004
CD changer/XM retention	✓	x			x	x
Requires CD/XM module	✓	x			x	x
Audio input (AUX)*	Optional	x	✓		x	✓
Charging (USB)	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Visor microphone	✓	✓	✓	✓	✓	✓
USB media player	x	x	✓	x	x	✓
Requires 12V ACC	✓	✓	✓	✓	✓	✓
Hands-free calls	✓	✓	✓	✓	✓	✓
Call announced**			✓			✓
Audio streaming	✓	✓	✓	✓	✓	✓
Radio button controls	X	✓	✓	X	✓	✓
Wireless remote	✓	x	x	✓	x	x
Module install location	Radio	Radio	Radio	Radio	Radio	Radio

*Aux input replaces separate player (CD changer and/or Sat radio) playback

Bluetooth streaming modules (Not for hands-free calls)

Feature	BT2-FORD	BTA-FORD	BT2-FR004	BTA-FR004
CD changer/XM retention	x	✓	x	✓
Requires CD Changer/XM module	x	✓	x	✓
Audio input (AUX)*	x	Optional	x	Optional
Charging (USB)	x	Built-in	x	Built-in
Visor microphone	x	x	x	x
USB media player	x	x	x	x
Requires 12V ACC wire	✓	✓	✓	✓
Hands-free calls	x	x	x	x
Audio streaming	✓	✓	✓	✓
Radio button controls	✓	x	✓	x
Wireless remote	x	✓	x	✓
Module install location	Radio	Radio	Radio	Radio

*Aux input replaces CD playback

Frequent ask questions & troubleshooting

1. **My vehicle has a CD changer. Will it still work?**
NO; CD changer, Aux, RSE etc. **must be disconnected and will no longer function.**
2. **Will I be able to control music on flash drive from Ford radio buttons?**
YES; Use familiar radio CD changer control buttons to select and play MP3/VWA files on flash drive.
3. **Can I pair or save the BT6-FR004 to more than one device?**
YES; more than one device (slaves) can be paired however only one connection can be active at a time.
4. **How do I switch from streaming to USB?**
Connects flash drive to USB port or pause streaming session
5. **Can I use BT6-FR004 to make/receive phone calls?**
NO; The BT6-FR004 also supports Hands-free profile (HPF).
6. **I've pressed the "CD" button on radio but it does not switch to "CD" mode?**
Try cycling the ignition key a few times to reset module.
7. **When streaming, will I be alerted of incoming calls?**
YES. If radio is in "AUX" mode, phone call will ring on car speakers. To go hands-free, tap the "SEEK" down button to answer call. Tape "SEEK" button to end call at which point streaming resumes.
8. **When listening to digital music (Flash drive etc.), AM/FM radio or CD; will incoming call ring on car speakers?**
NO. In these modes, the handset will ring/beep. Take call as normal. Please note incoming call announcement is only possible in streaming mode.
9. **Will incoming call ring on car speakers when listening to AM/FM, TAPE or CD?**
NO. Phone will not ring on car speakers when in these radio modes. Radio must be in "CD" changer (Bluetooth) mode for calls to ring on the car speakers.
10. **When streaming, listening to a USB file or AUX; will I be alerted of incoming calls?**
YES. Phone will ring/call number announced on car speakers*. Answer call by pressing the SEEK DOWN button on radio, Audio playback resumes upon ending call.
11. **How do I listen to AUX device.**
Ensure Flash drive port is empty and streaming is paused.
Attach one end of the audio extension cable to the headphone output of your player and the other end of the audio extension cable to the module AUX input jack.
Turn the radio on, Adjust the volume to a comfortable listening level and turn the

portable music player on and adjust the volume to 1/2 the volume.
Press AUX on the vehicle radio repeatedly until SAT1/2/3 appears in the display.
You should now hear audio the portable music player.
Adjust the sound on your portable music player until it reaches the level of the FM station or CD by switching back and forth between the AUX and FM or CD controls.
The portable music player must be controlled in the same manner when it is used with headphones as the BT6-FR004 does not provide control (play, pause, etc.) over the attached portable music player.

*Call number announcement must be enabled on phone.

Disclaimer

- This product has no affiliation with Ford etc.
- We're not liable for misuse of this product.
- We recommend professional installation.

Email support@discountcarstereo.com

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