

# USA·SPEC BT45-FORD1

FORD/LINCOLN/MERCURY without SAT



HandsFree  
Phone Call



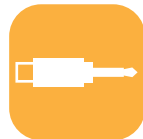
Wireless Media  
Streaming



USB  
Charging



All Speaker  
Playback



3.5 mm  
AUX Input

## *Introducing the next advancement in Bluetooth audio innovation for FORD*

### *Features:*

- Android, Apple, Blackberry, & Windows compatible.
- Plug & Play installation and seamless integration with OEM entertainment systems.
- Incoming number announcement & display (on supported radios).
- Built in noise cancellation for crystal clear call quality.
- Full & rich all speaker playback for media streaming with music info display (on supported radios).
- USB charging port and 3.5mm AUX port.

Model	Year	Radio ID
Edge	09-10: Non-Nav only	AUX/TEXT button
	07-08: All radios	
Escape	07: Nav only	
Expedition	07-09: All radios	
Explorer	06-09: All radios	
F150	06-08: All radios	MP3 logo
	05: MP3 radio only	
F250/350	2009: Non-Nav only	AUX/TEXT button
	07-08: All radios	
Five Hundred	06-07: All radios	MP3 logo
	05: MP3 radio only	
Focus	05-07: All radios	
FreeStyle	07-08: All radios	MP3 logo
	06: MP3 radio only	
Fusion	09: Non-Nav only	AUX/TEXT button
	06-08: All radios	

NOTE: Vehicles with SAT use the BT45-FORD2 package

Model	Year	Radio ID
Milan	09: Non-Nav only	AUX/TEXT button
	06-08: All radios	
MKx	07-08: All radios	
MKz	09: Non-Nav only	AUX/TEXT button
	07-08: All radios	
Mountaineer	06-09: All radios	
Mustang	06-09: All radios	
Navigator	07-09: All radios	
Ranger	07-09: All radios	
Sport Trac	06-09: All radios	



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FORD/LINCOLN/MERCURY without SAT

**the newly engineered innovative  
Bluetooth music & phone interface**

## Product Manual

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City of Industry, CA 91746

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#### WARRANTY DOES NOT COVER:

1. Damage due to improper installation or operation, negligence, abuse, or not following instructions, warnings or acceptable industry procedures.
2. Damage caused during the shipment or transportation of the product. All claims of this nature must be presented to the carrier.
3. Damage caused by acts of God, war, or civil disturbance, including without limitation, flood, fire, storms, earthquake or other acts of nature.
4. Any expenses or cost to remove or reinstall products.
5. Any product without the original serial number and factory seal, or has been serviced or modified without the authorization of USA SPEC.
6. Any product not distributed by an authorized USA SPEC dealer.

#### TO OBTAIN WARRANTY SERVICE:

Contact the Customer Service center for assistance at (626) 336 - 3836. A detailed description of the problem(s) is required for service. Proof of purchase is also required when sending a product for warranty service. If the problem cannot be resolved and the product must be returned for service, you will receive an authorization form from the service center. The product must be delivered pre-paid to the service center. USA SPEC will, at our option, repair the product or replace it with a new or reconditioned product, and if it was shipped to the service center, the return shipping will be pre-paid free of charge provided the repairs are covered by the warranty. The product must be packed securely for shipment to the service center in order to preserve the warranty and prevent damage.

NO IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR USE APPLIES TO THIS PRODUCT AFTER THE ONE YEAR PERIOD AS DEFINED ABOVE, AND NO OTHER EXPRESSED WARRANTY OR GUARANTEE, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON, FIRM, OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BIND THE WARRANTOR. NEITHER THE WARRANTOR NOR ANY OTHER PERSON, FIRM, OR CORPORATION IS RESPONSIBLE FOR LOSSES OR INCONVENIENCES, OR FOR ANY CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND SOME DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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## Product Overview:

The BT45 seamlessly integrates your vehicle's OEM sound system with Bluetooth (HFP) devices for **hands-free phone calls** and **media streaming**. You can wirelessly connect your A2DP Bluetooth profile equipped smartphone or tablet to play stored music or stream the audio from your favorite media apps such as, iHeart Radio, Pandora, Spotify, and YouTube. The built in echo & noise cancellation feature will give you crystal clear sound quality on your hands free phone calls. The all-speaker playback feature will give you a rich & dynamic music streaming quality. The Bt45 has an additional 3.5mm auxiliary audio port and a USB charging port so you can play music stored in your non-Bluetooth devices and keep your devices charged and ready to go. The BT45's plug & play technology takes advantage of the OEM radio's ability to accept an external CD changer or Satellite radio by converting it into Bluetooth phone/audio streaming/AUX input source. This design innovation allows you to maintain functionality of existing factory installed options such as, CD changer, Satellite radio, RSE (rear seat entertainment), and AUX/USB inputs.

## Notice:

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## Installation/Operation Precautions:

**DO** read the entire manual before starting the installation. We recommend that the BT45 be installed by a qualified professional since all installations will require the removal of some parts of the vehicles such as dashboard, backseat, etc.

**DO** install the interface securely using Velcro or wire ties (not included) and keep away from any moving parts such as the gas pedal.

**DO NOT** open, disassemble, or modify the BT45 in any way. Such attempts will void the warranty on the product.

**DO NOT** expose the interface to extreme temperature, humidity, or direct sunlight.

**DO NOT** operate the Bluetooth device while driving. Always give full attention to the road while driving.

**Package content:**

This package contains one of each of the following:

Product Manual	MIC45 (MICROPHONE)
BT45-FORD1 Interface Module	BT-F24C (Cable)

**Vehicle Compatibility: Vehicles with SAT radio use BT45-FORD2**

Model	Year	Radio ID
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### **Text information on radio display:**

Since the BT45-FORD1 is using the SATELLITE function of your Ford radio, the option to see the song title, artist name and Album title is available. While your music plays, short-press the TEXT button repeatedly to cycle between the different TEXT fields (i.e. artist, album and song). The default text display is song-title.

**Note:** some radios have the TEXT option on preset number 6. Pressing and holding down the TEXT/PRESET-6 button for too long will result in the BT45FORD1 switching into AUX mode.

### **DIP SWITCH SETTINGS:**

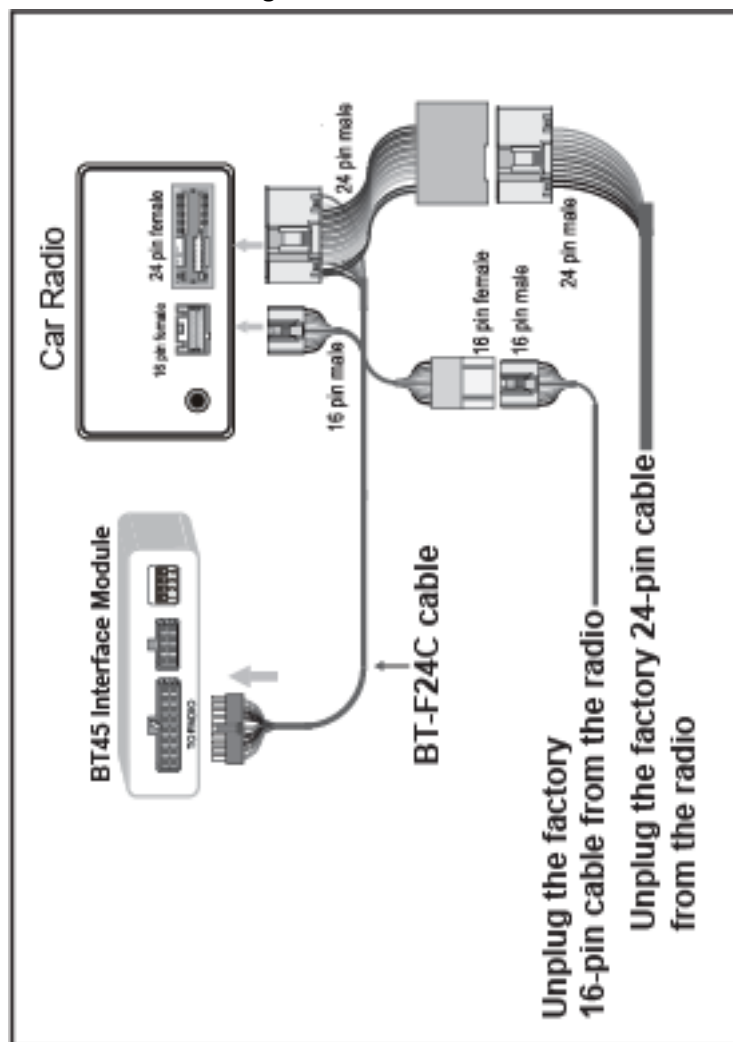
Set the dip switches to : 1-ON, 2-ON, 3-ON, 4-ON (down = ON)

### **INSTALLATION:**

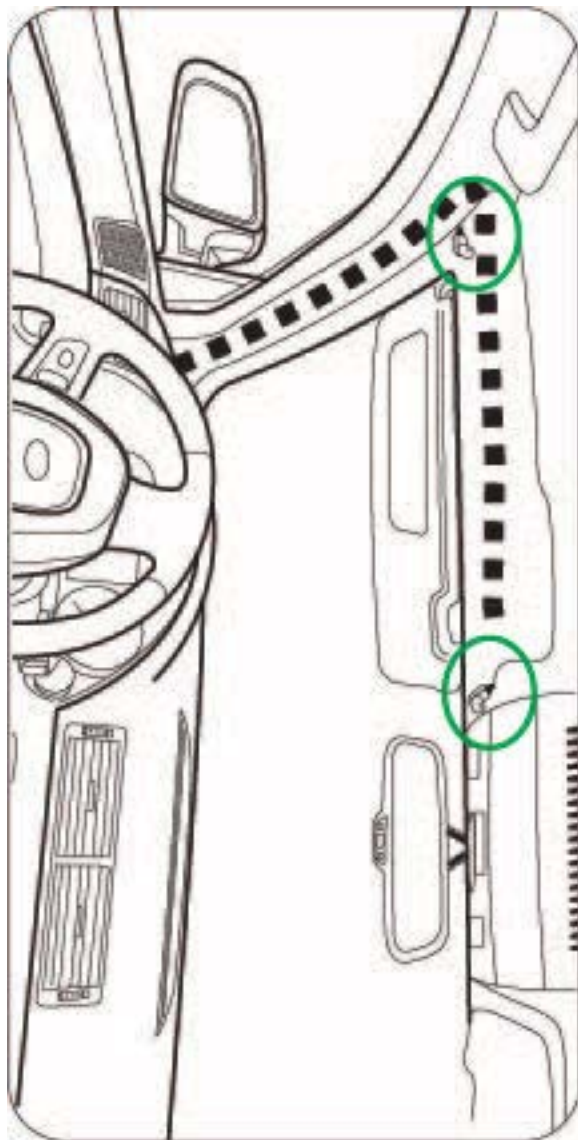
- **Eject all CD's from the CD6 radio mechanism to prevent jamming the CD mechanism when the radio reboots.**
- Disconnect the negative battery terminal for safety purposes only.
- Remove the radio and disconnect all the plugs, locate the 16-pin Satellite radio plug found on the back part of the radio-chassis.
- Use the BT-F24C cable (included in package) to connect the male 16-pin and 24-pin connectors of the BT-F24C harness into the radio.
- Reconnect the factory 16-pin and 24-pin plugs into the female 16-pin and 24-pin plugs of the BT-F24C harness.
- Run the BT-F24C 3.5' long cable to the desired mounting location, preferably an easily accessible one.
- Connect the 18-pin black Molex of the BT-F24C cable into the BT45-FORD1 plug labeled "RADIO".
- Connect the included microphone to the "MIC" jack of the BT45-FORD1 and run the 5-meter long cable to any of the recommended locations. See *"Recommended Microphone Locations" diagram*.

- Take this time to mount and install the optional 3.5mm auxiliary audio input jack and USB charging port of your choice.
- Check to make sure all radios plugs are securely connected.
- Reconnect the negative battery terminal.
- Install the radio back into the dash.

Cable Connection Diagram



## Recommended Microphone Locations



### **Bluetooth Device Compatibility:**

BT45 is compatible with most Bluetooth wireless technology enabled devices currently on the market such as iPhone, iPad, Android smartphones & tablets, Blackberry, and Nokia Windows smartphones & tablets. Devices must have Bluetooth profile A2DP (Advanced Audio Distribution Profile) and AVRCP (Audio/Video Remote Control Profile) 1.4 or higher for audio streaming and music info display.

Note: Due to Difference in Bluetooth technology, some Bluetooth enabled devices may be incompatible or may not support all the features when used with a BT45.

### **Bluetooth Pairing:**

- Turn the vehicle ignition ON and make sure the radio turns ON.
- Once the radio is ON, press the "AUX" button until the radio switches into SAT1, SAT2 or SAT3 mode.
- The radio will display "BT45" along with other random numbers (i.e. BT45#####-#####).
- make sure the volume on the radio is at least 10% up.
- Turn the BLUETOOTH function ON, on your phone or Bluetooth device and search for new devices.
- Select BT45-FORD from the list of devices-found.
- Allow the pairing-process to take place, NO CODE is required.
- Once the pairing process is complete you will hear an audible confirmation say "CONNECTED" and your device-name will be displayed on the radio's display.

### **STREAMING AUDIO:**

Music streaming from your Bluetooth device (A2DP)

- Music should begin to play in a few seconds after the audible "connected" message is heard. If it does not begin to play, proceed and access your favorite music app and manually select play.



## Music selection from your Radio (AVRCP)

- When in **SAT1**, **SAT2** or **SAT3** mode the SEEK button(s) will allow you to change track-up and track-down.
- **The steering wheel controls (SEEK) buttons**, are designed to perform PRESET (1-6) changes not track changes. Some vehicle steering wheel controls allow for track-changes up and down if you press and hold the **I<<SEEK/SEEK>>I** buttons on the steering wheel for a second or two.

**Note:** The same buttons (respectively) will advance tracks if listening to any other music app, such as Pandora.

## PHONE CALLS:

- **MAKE SURE YOU ARE IN BLUETOOTH AUDIO MODE** before making or answering a phone call. For example if you are listening to AM/FM when a phone call comes in you **MUST** switch over to Bluetooth Audio Mode first

**BLUETOOTH AUDIO MODE** is SAT1, SAT2 or SAT3 on your factory radio.

## Incoming calls (make sure you are in BLUETOOTH AUDIO mode):

- Upon an incoming call you will hear both, your phone ring and a default ringtone through your car speakers. At this point you may use any of the following buttons to answer the call.
    - **“SEEK>”** button on the radio
    - **“^”** button on the upper right corner of the radio.
    - **“SEEK >>I”** on the steering wheel (if pressed and held for 2 seconds or longer).
- Or, you may choose to reject the call using any of the following buttons:
- **“<SEEK”** button on the radio
  - **“v”** button the upper right corner of the radio.
  - **“I<<SEEK”** on the steering wheel (if pressed and held for 2 seconds or longer).

### **Outgoing calls** (make sure you are in BLUETOOTH AUDIO mode):

- You will need to use your phone to initiate an outgoing call. You may also enable the voice dialing function on your phone and the BT45 microphone will pick it up (as long as it is connected to your phone). However, keep in mind the environment inside a moving vehicle tends to be a bit noisier than your average environment which may affect the way your phone picks up your voice commands (through the BT45). We recommend for faster and ease of use, its best to manually access your call logs and dial from there or your contact list.

**Note:** *once you are done with any given phone call, the radio will stay in SAT1, SAT2 or SAT3 BLUETOOTH AUDIO mode. You must manually select any other audio source of your choice (i.e. FM/AM or CD).*

### **AUXILIARY AUDIO INPUT:**

The BT45-FORD1 has an onboard AUXILIARY AUDIO input and can be used for any device with a Line-level audio output such as the headphone plug from a laptop, DVD players or other portable devices.

#### **Accessing the AUXILIARY input:**

While the radio is in SAT1, SAT2 or SAT3 mode, press and hold PRESET #6 for up to 3-seconds to switch into AUX audio input. Play your device manually and adjust the volume to ensure the best sound fidelity. Short press PRESET number 4 to switch back to Bluetooth AUDIO mode..