Installation Guide

FCTP-MB1103

Sprinter Tow Package

For Sprinters equipped with 5.8” Display Radio

ECHOMASTER PRO

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What's in the box

*For programming and electrical connection information refer to BCI-MB11 guide.

Illustrations are typical and may not match exact vehicle detail

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Parts Description

FCTP-MB1103 For Sprinters equipped with 5.8” display radio			
Image	**Part Number**	**Description**	**Qty**
1	BSCM-MB1101	Side Mirror Cap Camera Mounts (L&R)	1
2	CAM-EXT50-HAR	50 Inch Camera Connection Harness	1
3	CAM-EXT70-HAR	70 Inch Camera Connection Harness	1
4	MB11-VS41-HAR	Camera Switcher Harness	1
5	P-CAM-MB1	RCA to OEM Camera Adapter	1
6	P-CAM-MB2	OEM Reverse Camera Adapter	1
7	P-VS41-B	Camera Switcher	1
8	BCI-MB11-HAR	Radio Interface Harness	1
9	P-BCI-MB11	Back-up Camera interface for OEM radio	2
10	SVC-01	Side Cameras	1
11	CAM-EXT4PRCA	Front Camera Adapter Harness	1

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Sprinter Tow Package

Important

Please read and follow the instructions carefully. To emphasize special information, the symbol and the words **Warning, Caution** and **Note** have special meanings. Pay special attention to messages highlighted by these signal words.

Note: Indicates special information to make installation easier or instructions clearer.

These instructions are designed as a guide to help make the installation of this product successful. Always use caution and ask for assistance if you are not sure how to proceed.

AAMP Global & EchoMaster is not responsible for any damage that may occur during installation or any changes to the vehicle interior.

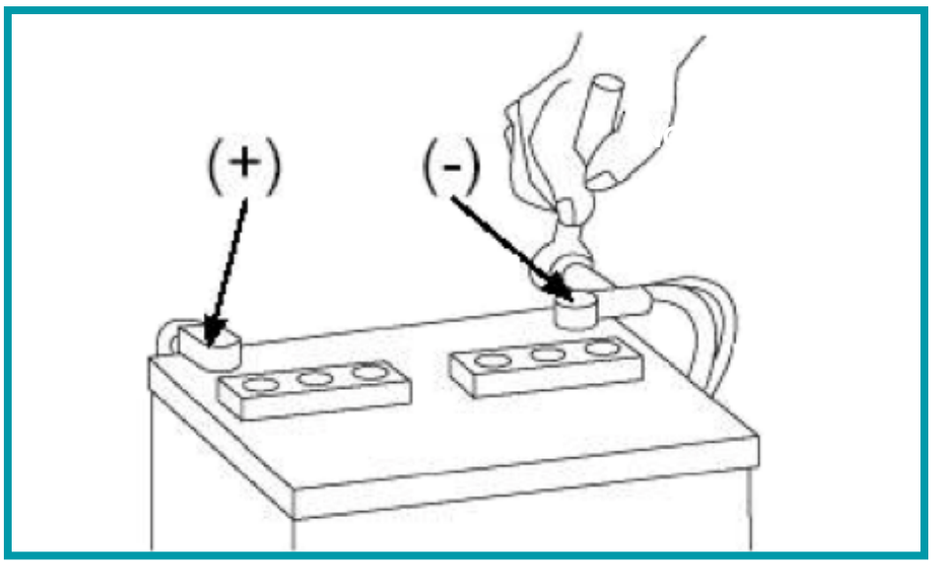
WARNING	CAUTION	NOTE
Indicates a potential hazard that could result in a death or serious injury	Indicates a potential hazard that could result in vehicle damage	Indicates a potential hazard that could result in vehicle or equipment damage

NOTE

Consult Vehicle owners guide before disconnecting negative battery cable

WARNING

DO NOT TOUCH the positive terminal with any tool when removing the negative battery cable



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Sprinter Tow Package

Tools Required

T-20, T-30
Torx Drivers

No. 1 Philips
Screwdriver

Trim
Removal Tool

Towel

Painters
Tape

Prior to Installation

Cover all surfaces with tape or plastic protection film to protect against scratching and damage. AAMP is in no way responsible for any damage that may occur during installation.

This product has been validated in the vehicles listed on the application guide only.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure proper installation. Read entire instructions thoroughly before starting.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc)
- Vehicle Disassembly / Reassembly (panel removal, part storage, etc)
- Electrical Component Disassembly / Reassembly (battery disconnection, connector removal, etc)

NOTE

Removed Parts - Inspect the vehicle and parts for any damage
Place all removed parts on a protected surface in an area they will not get damaged
Connectors: When disconnecting connectors, do not pull on the wires, pull by holding the connectors

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Vehicle Preparation & Protection

⚠ CAUTION

Consult your vehicle owner's manual to disconnect the battery. Do not disconnect ANY airbag connectors or indicators. Doing so may result in activating a diagnostic code. These codes will require the dealer to perform the reset procedure which may incur a reset fee. If you are unsure of any vehicle trim removal process consult the OEM service manual.

Removing vehicle trim panels in extreme hot and/or cold climate could result in damage. Use care when removing all vehicle trims. Using painter's blue tape on the vehicle trim panels can help limit any scratches and / or marring. Use a nylon trim panel removal tool whenever possible.

Dash Disassembly

Step 1

Carefully tape the dash trim piece around the radio display.

Step 2

Carefully remove the dash trim pieces from around the radio display. Using a nylon pry tool start from the top corners. Pry out towards the back of the vehicle.
Recommended tool (Nylon pry tool).

NOTE

Once dash piece is removed, place in safe area to avoid damage.

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Sprinter Tow Package

Dash Disassembly (continued)

Step 3

Once the lock tabs have been released disconnect the dash trim panel and place in a safe area.

Recommended tool (Nylon pry tool).

Step 4

Remove the four Torx T20 screws securing the radio display in place.

Recommend covering the climate controls with painters tape before removing the radio display.

Recommended tool (Torx T20).

Step 5

Remove the radio display, disconnect the radio display and set it in a safe area to avoid damage.

Refer to the installation guide for the RP4.2-MB11 / 21 or BCI-MB11 for programing information and electrical connections depending on which kit you are installing.

NOTE
Once the radio display is removed, place in safe area to avoid damage.

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Sprinter Tow Package

Door Disassembly

Step 1

Open the lower pocket on the door by unlocking the two cam locks.

Once it is open, remove the pocket by lifting it off the hinges.

Step 2

Remove the four Torx T20 screws from around the door.

Remove the cover from the door pull using a nylon pry tool. Pry from the bottom of the door pull to reveal the two Torx T30 screws.

Remove the two Torx T30 screws. Pry the door panel off the door. There are several snaps behind the panel. Disconnect the door latch and any connectors behind the door panel.

NOTE
Once the door panel is removed, place in a safe area to avoid damage

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Sprinter Tow Package

Mirror Disassembly

Step 1

Push the bottom of the top mirror glass in to gain access to the lower mirror glass.

Using even pressure, pull the bottom mirror glass off towards you. The mirror will pop off.

Step 2

Disconnect the defroster connector.

Not all models will have the defroster.

NOTE

Once the mirror glass is removed, place in safe place to avoid damage

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FCTP-MB1103
Sprinter Tow Package

Mirror Disassembly (continued)

Step 3

Tilt the top mirror glass so you can place both hands up under the glass to get to the center of the back of the glass.

Applying even pressure, pop the glass off.

Step 4

Disconnect the defroster connector.

Not all models will have the defroster.

NOTE
Once the mirror glass is removed, place in safe area to avoid damage

Step 5

Remove the four Torx T20 screws around the mirror housing.

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Mirror Disassembly (continued)

Step 6

Remove the outer trim ring.

Support the back cover while removing the outer trim ring.

Place in a safe area to avoid damage.

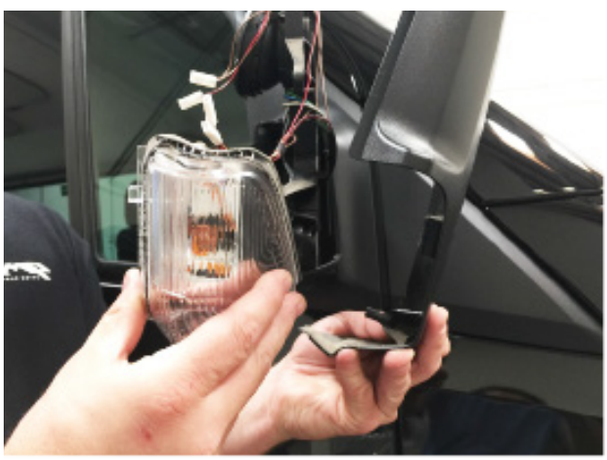
Step 7

Remove the back cover of the mirror housing.

Step 8

The turn signal indicator snaps off the back cover.

Place the back cover in a safe area to avoid damage.



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FCTP-MB1103
Sprinter Tow Package

Mirror Disassembly (continued)

Step 9
Disconnect the turn signal indicator.

Place the turn signal indicator in a safe area to avoid damage.

Cable Routing

Step 1
For the tow mirror, fold the arm in towards the door to gain access to the inner hinge area. Feed a long wire tie or similar fish tool through the lower outside portion of the tow mirror arm. Tape the camera cable to the end of the wire tie you are using to feed the wire through.

Tow Mirror

Step 2
Feed a long wire tie or similar fish tool through the mirror where the factory wires come through. Tape the camera cable to the end of the wire tie you are using to feed the wire through.

Non-Tow Mirror

NOTE
Removing the mirror assembly is not absolutely necessary but makes the installation easier.

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Sprinter Tow Package

Cable Routing (continued)

Step 3

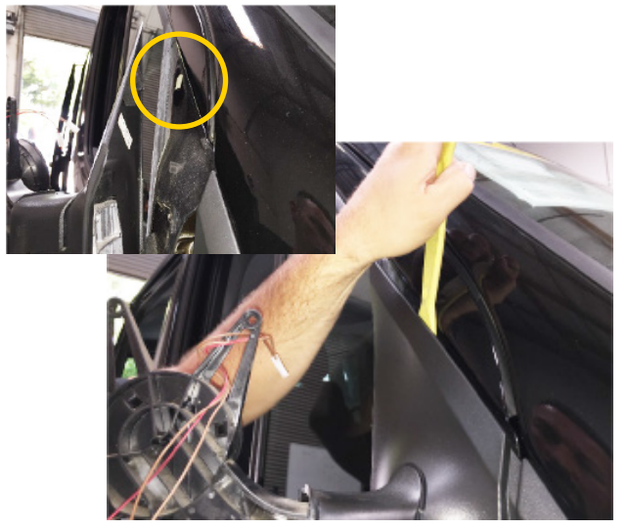
Remove the three Torx T30 screws holding the mirror to the door of the truck.

One of the Torx T30 screws has a small cap covering it. Use something slim to pry the cover off to access the screw.

The mirror arm will still be held on with a clip on the outside.

Step 4

Using a nylon pry tool, insert it (approximately as shown - above the hook) then pull it out and push the mirror assembly up to disengage.



NOTE

Removing the door speaker makes it easier to route the wires in the door.

Step 5

Feed a long wire tie or similar fish tool through the door to where the factory wires come through the boot.

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FCTP-MB1103
Sprinter Tow Package

Cable Routing (continued)

Step 6

Unsnap the door boot, and feed the wire tie through with the camera cable taped to the end.
Do not remove the boot from the black snap ring.
Only the door side of the boot needs to be removed.

NOTE

Once the cable is routed into the door jamb reinstall the three Torx T30 screws that hold the mirror frame on to the vehicle to avoid damage.

Step 7

Feed a long wire tie or similar fish tool through the boot then into the vehicle as shown.

The boot does not need to be removed from the vehicle side.

Step 8

Once inside the vehicle route the cables avoiding any moving parts.

Drivers side shown.

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Cable Routing (continued)

Step 9

Once inside the vehicle route the cables avoiding any moving parts.

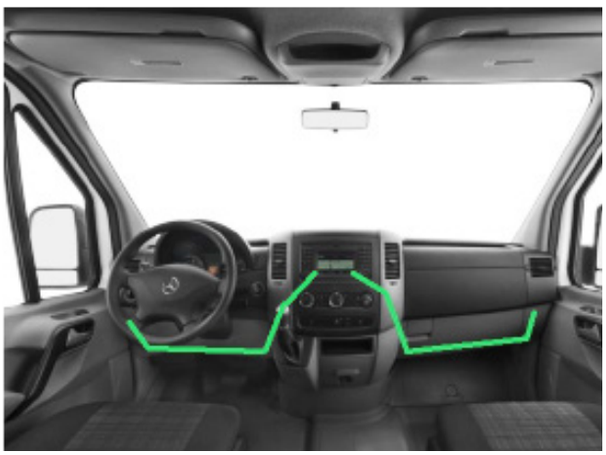
Passenger side shown.

Step 10

Avoiding any moving parts, secure the cables using cable ties.

For the driver's side you will need to use the **CAM-EXT70-HAR.**

For the passenger side you will use the **CAM-EXT50-HAR.**



Mirror Assembly

Step 1

With the cables routed, you can assemble the mirror caps with the cameras.

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FCTP-MB1103
Sprinter Tow Package

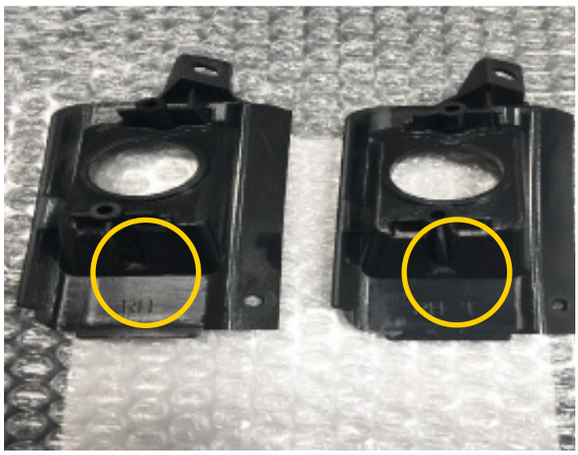
Mirror Assembly (continued)

Step 2

There are two sets of camera inserts per side.

RH Right hand side
RH-T Right hand side trailer
LH Left hand side
LH-T Left hand side trailer

The trailer inserts are for the mirrors that extend out farther from the vehicle.



Step 3

Select the inserts you are going to be installing.

There is a small notch on the camera; this notch needs to be on the same side as the lettering on the insert.

Step 4

Once the camera is snapped into place, slide the locking mount over the camera. There is a locking rib which needs to be lined up with the notch on the camera. You can adjust the camera using the locking mount by twisting the camera so the screw holes line up. Once the holes line up, using a No. 1 Phillips screwdriver install the supplied screws.

NOTE
DO NOT OVER TIGHTEN

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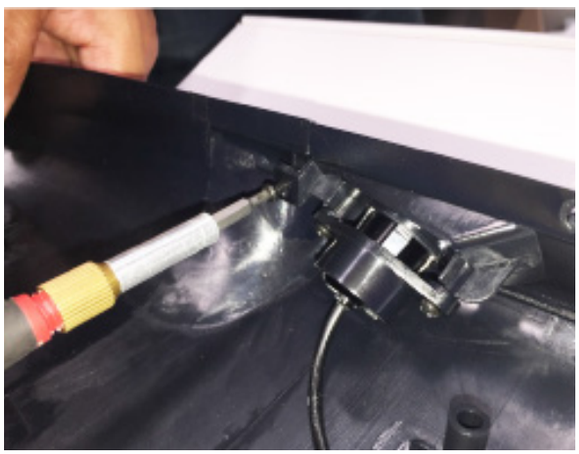
Mirror Assembly (continued)

Step 5

When installing the camera insert on to the mirror caps, the locating tab will line up with a small hole on the front of the camera insert.

Step 6

Once the camera insert is installed in place, use a number 1 Phillips screwdriver to mount the camera insert.



NOTE
DO NOT OVER TIGHTEN

Step 7

Once the camera insert is installed, snap the turn signal in place. Reinstall the mirror caps, in the reverse order they were removed.

Make sure all connections in the mirror are fully seated and secure when reinstalling everything.

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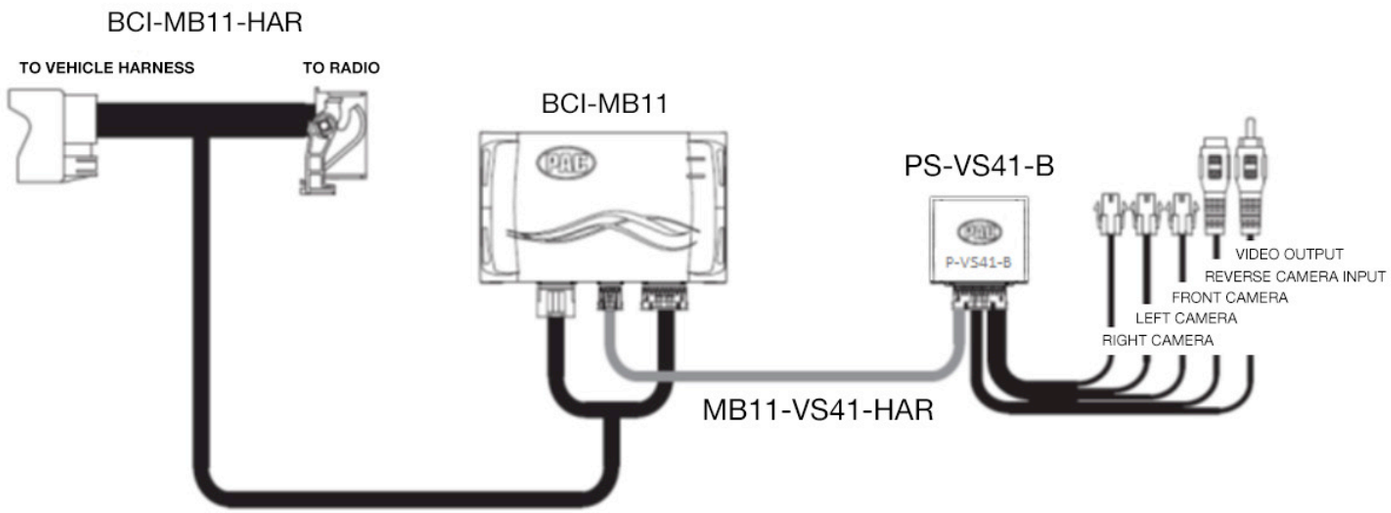
Wiring Diagram



Testing

Reconnect the negative battery cable.

Turn the ignition switch to ON, when the display of the unit comes on, follow the steps for set up.

Place your foot on the brake and place the vehicle in reverse. The rear camera will display on the screen.

NOTE

ONLY IF CAMERA IS INSTALLED AND ACTIVATED

Place the vehicle back in park to go to the source selection screen. Ensure all components are in working order (Navigation, steering wheel controls, HVAC, dome lights, etc.)

NOTE

Check to ensure the unit, steering wheel controls, AM/FM tuner are properly working. Double check all the functions of the vehicle are working correctly.

If the unit does not power up

- Check the vehicle's fuse first.
- Check that the connectors on the back of the unit are fully seated and locked.
- Check that no PINS have gotten bent in the connectors during installation.

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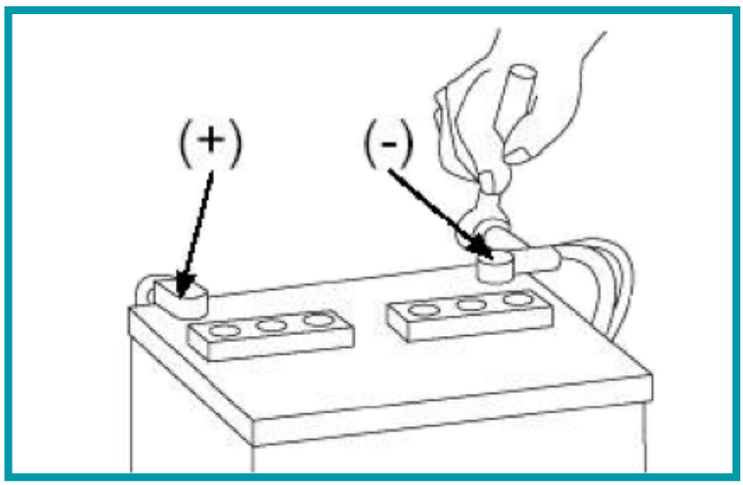

NOTICE OF INTENDED USE

Some features are not intended for viewing by the driver while the vehicle is in motion. When using the navigation feature, minimize the amount of time spent on viewing the screen and use voice prompts when possible. Avoid prolonged use of the touch screen controls while the vehicle is in motion. Such use may distract the driver or interfere with the driver's safe operation of the vehicle which can result in serious injury or death. Use of the product while the vehicle is in motion may also violate state or local laws.

This product must be properly installed and used in accordance with all laws for your safety. AAMP Global does NOT assume liability for any bodily injury or property damage that might result from any improper or unintended use.

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AGREEMENT: End user agrees to use this product in compliance with the instructions and terms of use above and with all State and Federal laws. ECHOMASTER provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conformity with those instructions or other misuse of its product. If you do not agree, please discontinue use immediately and contact EchoMaster. This product is intended for off-road use and passenger use only.

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