

Thank you for purchasing the Beat-Sonic CS15 Camera Selector. You have purchased from Japan's leading supplier of car audio interface adapters and accessories. Designed and made in Japan, this product represents our commitment to quality and excellence. Please read this manual carefully prior to installing this product to ensure correct operation.

FEATURES

- Provides input connections for aftermarket front camera or cameras to the factory display.
- Includes a selector button to activate the front camera with a programmable display timer.
- Allows the factory backup camera to be activated at any time (selected models only).
- Programmable to automatically display the front camera at parking speed.
- Made in Japan.

CAUTION

- This product is installed using the factory harness connectors. However, there are multiple factory connectors that are the same size and shape. Do not connect to the wrong connector, as serious damage may occur. Contact Beat-Sonic if you are unsure.
- Check the Beat-Sonic website for the latest vehicle compatibility information.
- This product requires installation of a front camera with cables routed through the vehicle's firewall. It should be installed by an experienced automotive technician.

INSTALLATION PRECAUTIONS

- Install carefully to avoid damaging the product or the vehicle.
- Ensure all connectors and cables are fully and securely inserted. Loose connections can cause malfunction.
- Disconnect connectors by holding the connector body - never pull on the wires.
- Disconnect the negative terminal of the vehicle battery before installation to prevent short circuits.

DISCLAIMER

- The user assumes all responsibility for any damage and/or injury resulting from improper installation.
- Beat-Sonic and its affiliates shall not be held responsible for any direct or indirect consequences resulting from the installation or use of this product.

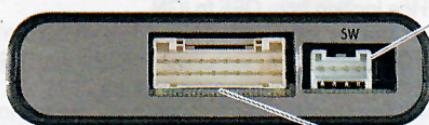
CONTENTS

- CS Module x 1
- Selector Switch & Switch Harness x 1
- Main Harness x 1
- Option Harness x 1
- Instruction Manual x 1

*Front camera not included - please purchase camera(s) separately

1 Parts List

CS Module



Switch connector

Main harness connector

Selector Switch



Status LED

- LED turns GREEN when the front camera is activated.
- LED turns ORANGE when the factory backup camera is activated.
- LED is dimly illuminated RED when no camera is active.

Momentary Push Switch

- Press the button to display the front camera.
- Press again to display additional cameras (see programmable settings) and return to default display screen.

Main Harness



Option Harness



12V Power

- Provides 12V DC and ground for the camera.
- To avoid short-circuit risk, do not remove protective label if not used.

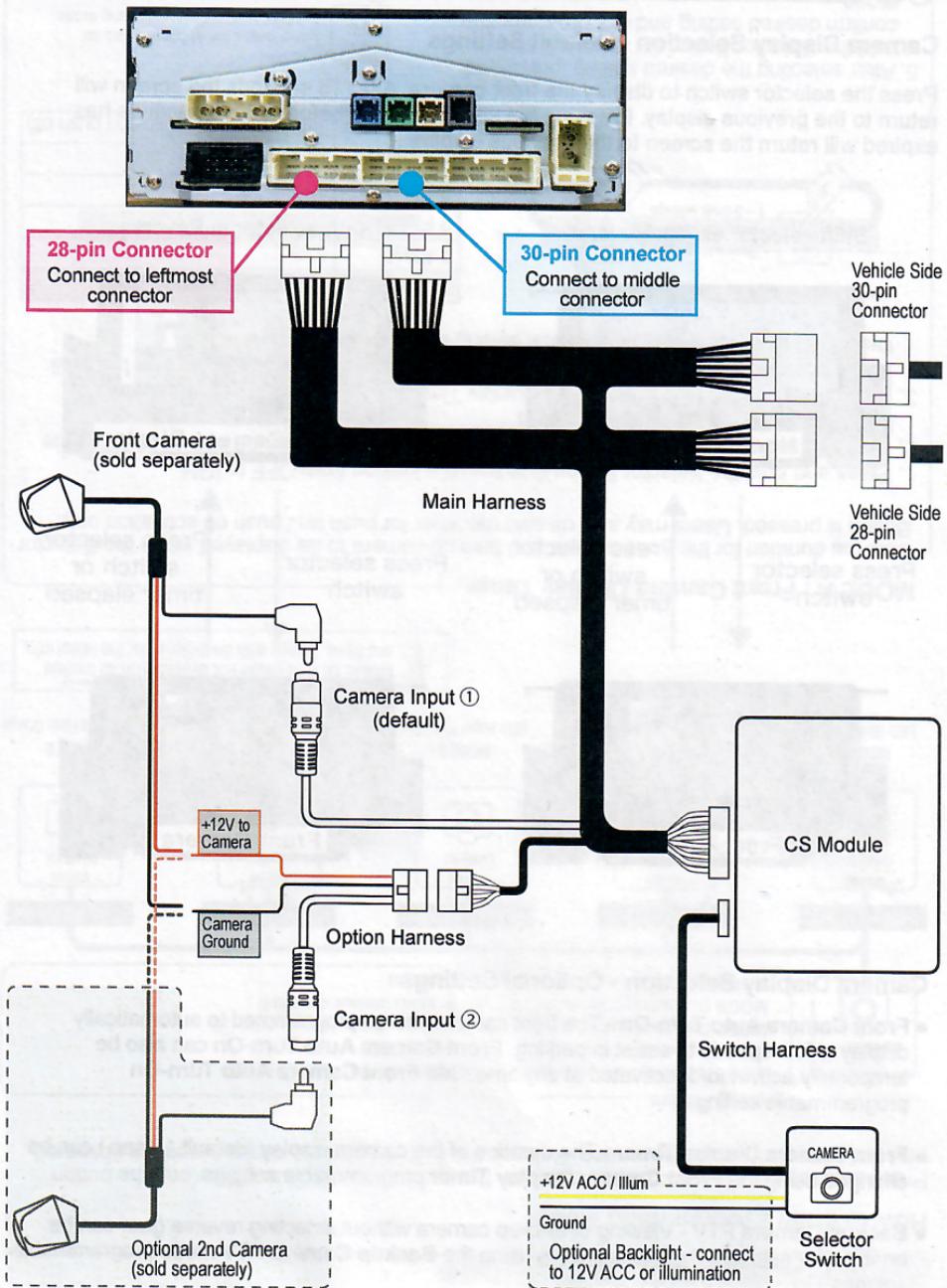
Camera Input ② (default disabled)

- Video input RCA connector for camera input ②
- See Programmable Settings MODE C to enable camera input ②

Connector

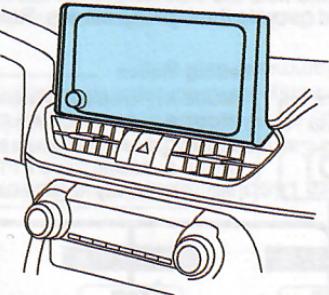
- Connect to Main Harness

② Connection Diagram

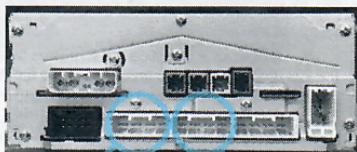


3 Installation

3.1 Remove all necessary parts to gain access to the rear of the factory head unit. The disassembly method varies by vehicle. If unsure, please contact Beat-Sonic for vehicle-specific instructions.



3.2 Viewing the head unit from the rear, disconnect the leftmost 28-pin connector and middle 30-pin connector from the factory head unit. Connect the CS15 main harness connectors in-line between the factory connectors and the head unit.



Cable A
28-pin Connector Cable B
30-pin Connector

Photos are for illustration purposes. Actual radio, number of connectors and connector positions will vary according to model and grade.

3.3 Install the selector switch into a suitable switch blank and route the cable to the CS module.

3.4 **Front Camera Installation** - Install the front camera (sold separately) according to the instructions provided with the camera.

- The default connection for the front camera is **Camera Input ①**.
- An additional camera can be connected to **Camera Input ②** via the Option Harness. Refer to Programmable Settings MODE C to enable **Camera Input ②**

3.5 Ensure all connectors are properly secured before reconnecting the negative terminal of the battery. Firmly engage the parking brake, and confirm that the factory backup camera is displayed when reverse gear is selected. With the gear selector out of reverse, press the selector button to activate the front camera. Confirm that the selector button status LED is green while the front camera image is displayed. After approximately 15 seconds, the display will return to the normal screen (default setting).

3.6 Reinstall all fasteners and panels in the reverse order of disassembly to complete the installation.

4 Operation

Camera Display Selection - Default Settings

Press the selector switch to display the front camera. After 15 seconds the screen will return to the previous display. Pressing the selector switch before the 15 seconds has expired will return the screen to the previous display.

Shift selector except Reverse



Shift selector in Reverse



Press selector switch

Press selector switch or timer elapsed

Press selector switch

Press selector switch or timer elapsed



Camera Display Selection - Optional Settings

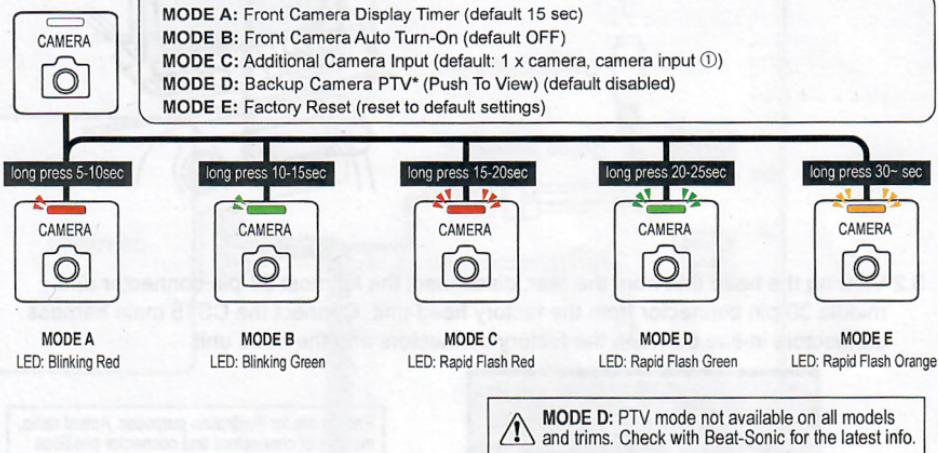
- **Front Camera Auto Turn-On** - The front camera can be programmed to automatically display at low speeds to assist in parking. **Front Camera Auto Turn-On** can also be temporarily activated/deactivated at any time. See **Front Camera Auto Turn-On** programmable settings.
- **Front Camera Display Timer** - The duration of the camera display (default 15 sec.) can be changed using the **Front Camera Display Timer** programmable settings.
- **Backup Camera PTV** - Viewing of backup camera without selecting reverse gear can be enabled for selected models and trims using the **Backup Camera PTV** mode programmable settings.

5 Programmable Settings

How to Enter Programming Mode

Press and hold the Selector Button then turn the ignition from OFF to IGN. Keep the button pressed to cycle through the modes. Release the button when the desired mode is observed.

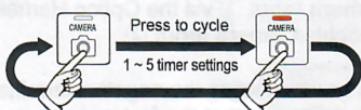
Setting Modes



MODE A : Front Camera Display Timer

Sets the duration for the front camera and backup camera to be displayed when the Selector Button is pressed. Users may also disable the timer for push on / push off activation only.

1. Press and hold the Selector Button then turn the ignition from OFF to IGN.
2. Keep the switch depressed for at least 5 sec. but no more than 10 sec. to observe the LED change from OFF -> Blinking Red
3. Release the button to enter Camera Display Timer programming mode
4. Press and release the button to cycle through each of the 5 timer settings. The LED will flash RED to indicate the current timer setting as shown in the table below:



LED Flash	Timer Duration
1 Flash	5 sec.
2 Flashes	10 sec.
3 Flashes	15 sec. (default setting)
4 Flashes	20 sec.
5 Flashes	Timer Disabled (push on / push off)

5. After selecting the desired setting, press and hold the Selector Button for at least 3 sec. to confirm desired setting and exit programming mode.

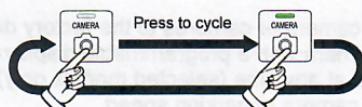


Long press for at least 3 sec. to confirm and exit programming mode.

MODE B: Front Camera Auto Turn-On

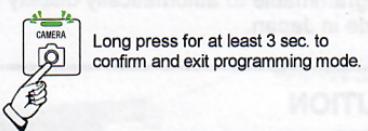
At low speeds less than 15km/h (10mph), the front camera can be automatically displayed. to assist in parking and obstacle avoidance.

1. Press and hold the Selector Button then turn the ignition from OFF to IGN.
2. Keep button depressed for at least 10 sec. but no more than 15 sec. to observe the LED change from OFF -> Blinking Red -> Blinking Green.
3. Release the button to enter Front Camera Auto Turn On programming mode.
4. Press and release the button to change the setting. The LED will flash GREEN twice per cycle to indicate this option has been enabled. Press and release the button again and the LED will flash GREEN once per cycle to indicate this option has been disabled.



LED Flash	Front Camera Auto Turn-On
1 Flash	Disabled (default)
2 Flashes	Enabled

5. After selecting the desired setting, press and hold the Selector Button for at least 3 sec. to confirm desired setting and exit programming mode.

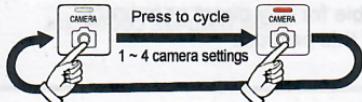


Front Camera Auto Turn-On can be temporarily enabled or disabled from either of the selected programmable options. With IGN ON and no camera displayed, long-press the button for approx. 3 seconds. The LED will flash rapidly and change color. This temporary setting remains in effect until the IGN is turned OFF or the above procedure is repeated.

MODE C: Additional Camera Input

Allows a 2nd additional camera (Camera #2) to be connected, changes the camera inputs, and configures the order in which the cameras are displayed

1. Press and hold the Selector Button then turn the ignition from OFF to IGN.
2. Keep the button depressed for at least 15 sec. but no more than 20 sec. to observe the LED change from OFF -> Blinking Red -> Blinking Green -> Rapid Flash Red.
3. Release the button to enter Additional Camera Input programming mode.
4. Press and release the button to cycle through the 4 different setting options. The LED will flash once per cycle through to 4 times per cycle to indicate the selected camera input setting.



LED Flash	No. Cameras	Camera Connection	
		Camera Input ①	Camera Input ②
1 Flash	1 Camera (default)	Camera Input ①	-
2 Flashes	2 Cameras	Camera Input ①	Camera Input ②
3 Flashes	1 Camera	Camera Input ②	-
4 Flashes	2 Cameras	Camera Input ②	Camera Input ①

5. After selecting the desired setting, press and hold the Selector Button for at least 3 sec. to confirm desired setting and exit programming mode.

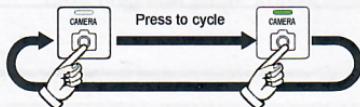


Long press for at least 3 sec. to confirm and exit programming mode.

MODE D: Backup Camera PTV (Push To View)

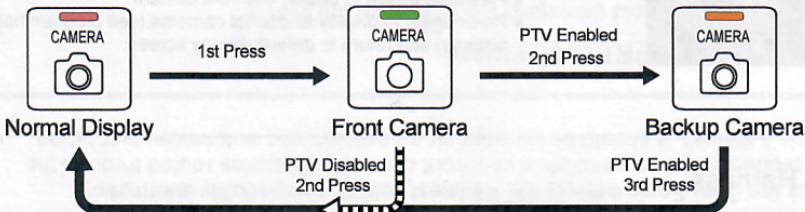
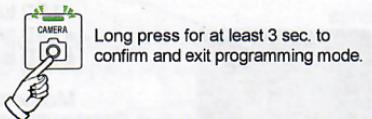
Displays the backup camera at any time without selecting reverse gear. This feature is not available on all models and trims. Check with Beat-Sonic for the latest info.

1. Press and hold the Selector Button then turn the ignition from OFF to IGN.
2. Keep the button depressed for at least 20 sec. but no more than 30 sec. to observe the LED change from OFF -> Blinking Red -> Blinking Green -> Rapid Flash Red -> Rapid Flash Green.
3. Release the button to enter Backup Camera Push To View programming mode.
4. Press and release the button to change the setting. The LED will flash twice per cycle to indicate this option has been enabled. Press and release the button again and the LED will flash once per cycle to indicate this option has been disabled.



LED Flash	Backup Camera PTV
1 Flash	Disabled (default)
2 Flashes	Enabled

5. After selecting the desired setting, press and hold the Selector Button for at least 3 sec. to confirm desired setting and exit programming mode.



 Order will change if 2nd additional camera (Camera#2) is connected and configured.

MODE E: Factory Reset

Resets all programmable settings to factory default.

1. Press and hold the Selector Button then turn the ignition from OFF to IGN.
2. Keep the button depressed for at least 30 sec. to observe the LED change from OFF -> Blinking Red -> Blinking Green -> Rapid Flash Red -> Rapid Flash Green -> Rapid Flash Orange.
3. Release the button to complete the factory reset.

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