

# Installation Guide

FC-GMOESWR-HD

## Intellihaul Integrated Towing Assistance Package





## Prior to Installation

Cover all surfaces with tape or plastic protection film to protect against scratching and damage. EchoMaster is in no way responsible for any damage that may incur 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).

### NOTES:

Removed Parts: Inspect the vehicle and parts for any damage.

Place all removed parts on a protected surface in an area where they will not get damaged.

Connectors: When disconnecting connectors, do not pull on the wires; pull by holding the connectors.



## 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.

## Required Tools





Integrated Towing Assistance Package

FC-GMOESWR-HD

## Removing the Dash

### Step 1

Using a plastic dash removal tool, remove the LCD display fascia panel.



### Step 2

If installed, remove the heated seat connector plugs from the back of the unit.



### Step 3

Remove the 4 x 7mm bolts from around the LCD display.

Once screws have been removed, pull the unit from the dash.



Integrated Towing Assistance Package

FC-GMOESWR-HD

### Step 4

Unplug the 3 connectors from the back of the LCD display assembly and set aside.



### Steps 5 & 6

Remove the 2 x 7mm screws from the CD/DVD mechanism.

Next, unplug the CD/DVD mechanism and set aside with the screws from step 4.



### Step 7

Remove the 4 x T-15 torx screws from the glove compartment (2 from top and 2 from bottom).

Remove the glove compartment and set to one side.



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## Removing the Door Panel(s)

### Step 1

Remove the plastic cover and unscrew the 2 x 7mm bolts.



### Step 2

Next, remove the plastic cover from the door release handle and unscrew the 1 x 7mm bolt underneath.



### Step 3

Unscrew the 2 x 7mm bolts from the bottom of the door panel.



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6 Illustrations are typical and may not match exact vehicle details



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### Step 4

Using a plastic trim removal tool, unsnap the 4 clips and remove the plastic trim from the armrest and set aside. Once the trim is removed, unscrew the 7mm bolt found underneath the trim.



### Step 5

Pulling straight towards you release all plastic clips.



### WARNING

Top clips are very tight.

### Step 6

Release red lock tab from door wiring harness and unlock door harness connector.



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FC-GMOESWR-HD

## Removing the Door Panel(s) - continued

### Step 7

Unclip door handle release assembly by pressing on top and removing cable from handle assembly. Set the door panel aside.

Repeat the steps above for the opposite door panel.



### Step 8

Remove plastic window bezel by removing two plastic push pins and one clip located in sail panel. Set plastic window bezel aside.

Repeat steps for opposite side door.



Integrated Towing Assistance Package

FC-GMOESWR-HD

### Steps 9-11

Unplug mirror assembly from door and remove three harness fasteners.

Remove 3 x 10mm nuts from mirror assembly (some models have 3 x 10mm nuts).

Remove mirror from door and set aside.



### ⚠ WARNING

Take care not to scratch door when removing. Mirror has one plastic clip securing it to door frame. Medium force required to remove mirror assembly from door. Repeat for other side

## Removing the Door Sill(s)

### Step 1

Remove passenger front and rear door sill plastics.

Set aside.



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## Removing the Mirror

### Step 1

Using a plastic trim removal tool remove the bottom mirror cap from the mirror assembly.

**\*\* PLEASE NOTE\*\***

Using two plastic tools to work the cover off is recommended.

Be sure not to scar plastic from mirror assembly.



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### Step 2

Using plastic pry tool remove top arm cover of mirror assembly.



## Installing Mirror Pod Assembly

Using a zip tie taped to the camera harness route wire from bottom of mirror through the mirror and out the top.

Route the camera harness alongside the factory wiring and secure with zipties.

Snap EchoMaster mirror pod cap back on mirror assembly.

Re-install mirror onto vehicle.



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## Route Camera Extension Harness

Starting from inside door, route the female end of the cable through the round factory grommet (must cut hole).

Route the cable through the rubber door boot (easily done using a long zip tie taped to harness). The wire should pass into the car below the factory door connector.

Route the cable under the dash to the appropriate connector on the main harness extension.

Use zip ties to secure wiring.



### WARNING

Be sure to align the connector the correct way, failure to do so will result in damage.

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## Route Camera Extension Harness

Route main harness extension cable through dash.

This should pass through hole located behind CD/DVD player and exit from bottom of dash.

- Camera 1 = Drivers Door
- Camera 2 = Passengers Door
- Camera 3 = Optional Camera
- Camera 4 = Trailer Camera



## Route Camera Extension Harness (Rear)

Remove front and rear door sill plates and route extension harness(es) to the rear of the vehicle (passenger side only).

Remove 1 x 7mm bolt from C-pillar panel and remove panel. Route wire to bottom corner of rear window and secure with zip ties.



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## Installing Wireless Receiver

Plug in wireless receiver module.



### ⚠ WARNING

Be sure to orient the plug correctly otherwise damage will occur. Use two sided tape to fasten to rear window.

## Mount Module to Bracket

Mount module to bracket using the four provided M3 screws.



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FC-GMOESWR-HD

## Module Connections

Connect 8-pin power t-harness to module. Next, connect 16-pin main camera extension cable to module. Then, fasten harnesses to the bracket using zip ties through the holes provided.

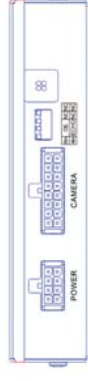


Please select the size of the monitor using **dip switch 1**.

- ▶ **Up for 8" / Down for 4"**.

Please select the reverse camera input option using **dip switch 2**.

- ▶ **Up for OEM reverse camera**
- ▶ **Down for EchoMaster/aftermarket camera.**



## Mounting the Module



Plug CD/DVD player back in. Route male/female LVDS connections from center stack to glove compartment opening. Place CD/DVD back in to dash and slide module/bracket assembly in just above it using two 7mm bolts to secure it.



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## LVDS Connection

- Locate HMI module high in glove compartment cavity.
- Unplug BLUE LVDS connector.
- Plug loose male LVDS connector into female EchoMaster connector.
- Plug male EchoMaster LVDS connector into HMI module.
- Secure loose wiring with zipties.



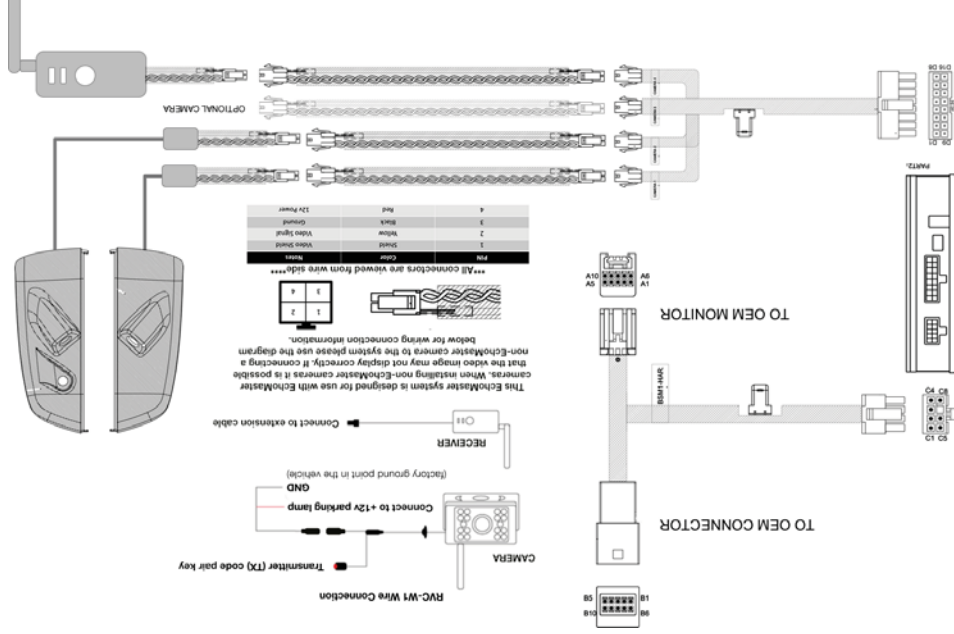
## Re-install

- Reinstall all removed panels and test system.
- 8" version - Press and hold the "BACK" button for three seconds to enter the Intellihaul user interface. Use the touch screen to select the desired view. Press the "BACK" button to return to the previous screen.
- 4" version - Press and hold the "HOME" button for three seconds to enter the Intellihaul camera view. Press the "HOME" button for one second to cycle through the views. Press the "BACK" button to return to the factory screen.



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## Wiring Diagram



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