

# Jeep/Dodge Caravan Camera Integration

I296-I\_INS\_V1.3

## **PLEASE READ BEFORE BEGINNING INSTALLATION**

### Installation Terms & Conditions

- If this Installation requires opening the factory monitor or radio to insert ribbon cables or sub boards, Advanced ICE Pty Ltd advises that the installation be carried out by an installer with experience working with electronic circuit boards. Advanced ICE highly recommends the use of a suitable workbench with Antistatic Mat and Earth Strap to avoid possible damage from a static charge. Advanced ICE Pty Ltd does not accept any responsibility for damaged caused either to the components in the vehicle or the product, so please do not proceed with the installation if you do not accept these terms.
- All labels on the product including software versions and serial numbers must not be covered, damaged or removed. This may void the warranty on the product.
- Ensure that all left over accessories, including remote controls and cables, are given to the customer. If replacements are required in the future they will be charged.
- Please ensure the installation of this product will not interfere with any factory safety equipment (e.g. Airbags)
- If working with Airbags, be sure to disconnect the vehicle Battery before beginning work. This product and the following instructions are designed for installation by a qualified 12v installer, car audio installer or auto electrician.
- Interfaces and Navigation modules must not be installed in a location where they will be exposed to extreme temperatures including, but not limited to, installation on top of a vehicles radio, transmission tunnel or firewall. Damage caused by exposure to heat is not covered under warranty.
- If a navigation product is being installed, the end user will need access to the SD Card so as to perform navigation software updates. Please ensure the navigation module is installed in an easy to access location.
- If the Navigation SD card is not easily accessible by the end user, you the seller, will be responsible for any labour to assist the customer to access the SD card to perform navigation updates.

### Overview

This system is specifically designed for adding a caravan camera to the factory screen and it will automatically switch to the caravan camera once it is connected to the vehicle and the camera is powered up and generating a video signal. When the caravan is unplugged from the car the system will revert to the normal factory reverse camera operation.

### Important Product Information

- This product comes with a 2 year warranty against manufacturer related defects.
- **Only use with an NTSC camera. Some Jeep/Dodge Screens are not compatible with PAL type cameras.**

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## Kit Content



Fig. 1 - CAN Box

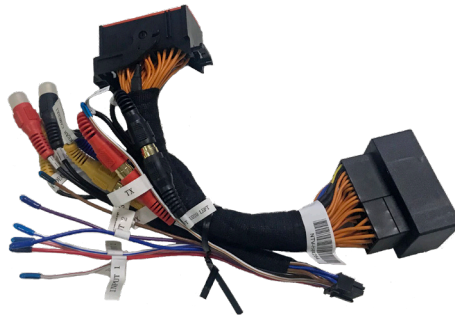


Fig. 2 - Power Cable



Fig. 3 - USB Cable



Fig. 4 - VSW

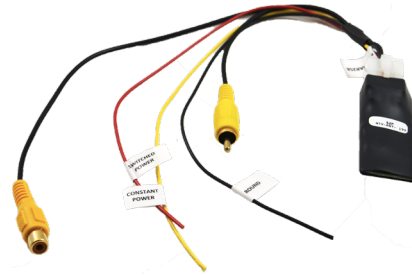


Fig. 5 - V2P-II

## Wiring Information

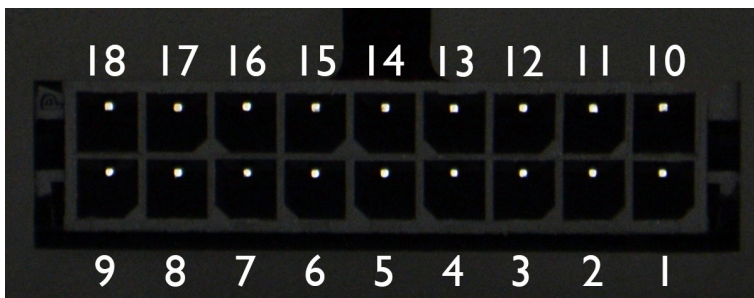


Fig. 6



PIN	Description	Colour
1	12 v (+) Constant	Yellow
2	INPUT 1: VIM Activation	Red
3	* NOT USED *	Blue
4	INPUT 3: Front CAM/Cargo Cam (selectable)	Pink
5	RX (not present)	--
6	RCA MALE	--
7	RCA Shield	--
8	CAN HI (Radio Side)	Brown/White
9	CAN HI (Car Side )	Blue/White
10	Ground (-)	Black

PIN	Description	Colour
11	OUTPUT 1 <i>Provides 12v (+) ACC Out</i>	White/Red
12	OUTPUT (2) when <b>AUX</b> is activated (AVSW V1 Trigger)	Blue/White
13	OUTPUT (3) when <b>Front Camera</b> is activated (AVSW V2 Trigger)	Purple
14	TX INPUT (UART control to SVS-6 RX)	White/Brown
15	RCA Femal (Normally Open)	--
16	RCA Female (Normally Closed)	--
17	CAN LO (Car Side)	Brown
18	CAN LO (Car Side)	Blue

## Mode Change and Operation



Long press BACK button while driving forward to activate



Fig. 7

## Installation Guide

- Gain access to the back of the monitor.
- Unplug the quad lock connector from the factory monitor and insert provided Plug and Play Quad Lock T Harness.
- In the Plug and Play Harness, there are two yellow RCA connectors joined together. Disconnect these and do the following:-
  - Connect the female RCA from the vehicle side of the harness to the Male Video Output of VSW Video Switch
  - Connect the male RCA from the vehicle side of the harness to the VSW Video 1 Input
  - The Blue/White Trigger wire is not used for this installation and should be isolated.
  - Connect the Black wire of the VSW to ground along with the Black wire from the V2P-II Interface
- Connect the White/Red Video 2 Trigger of the VSW to the Red Switched Power wire Output of the V2P-II Interface. When a video signal is present on the RCA this wire will output 12v.
- Connect the Yellow 12v (+) of the V2P-II to ACC or Ignition.
- Connect the RCA Video Output of the V2P-II to the Video 2 Input of the VSW Video Switch.
- Connect the RCA Video cable from the caravan camera to the video female input of the V2P-II

To activate the front camera while driving forward simply long press the BACK Button on the radio for 2-3 seconds. Please refer to the wiring diagram on the next page (*Figure 6*) for more information.

# Installation Overview - Caravan Camera

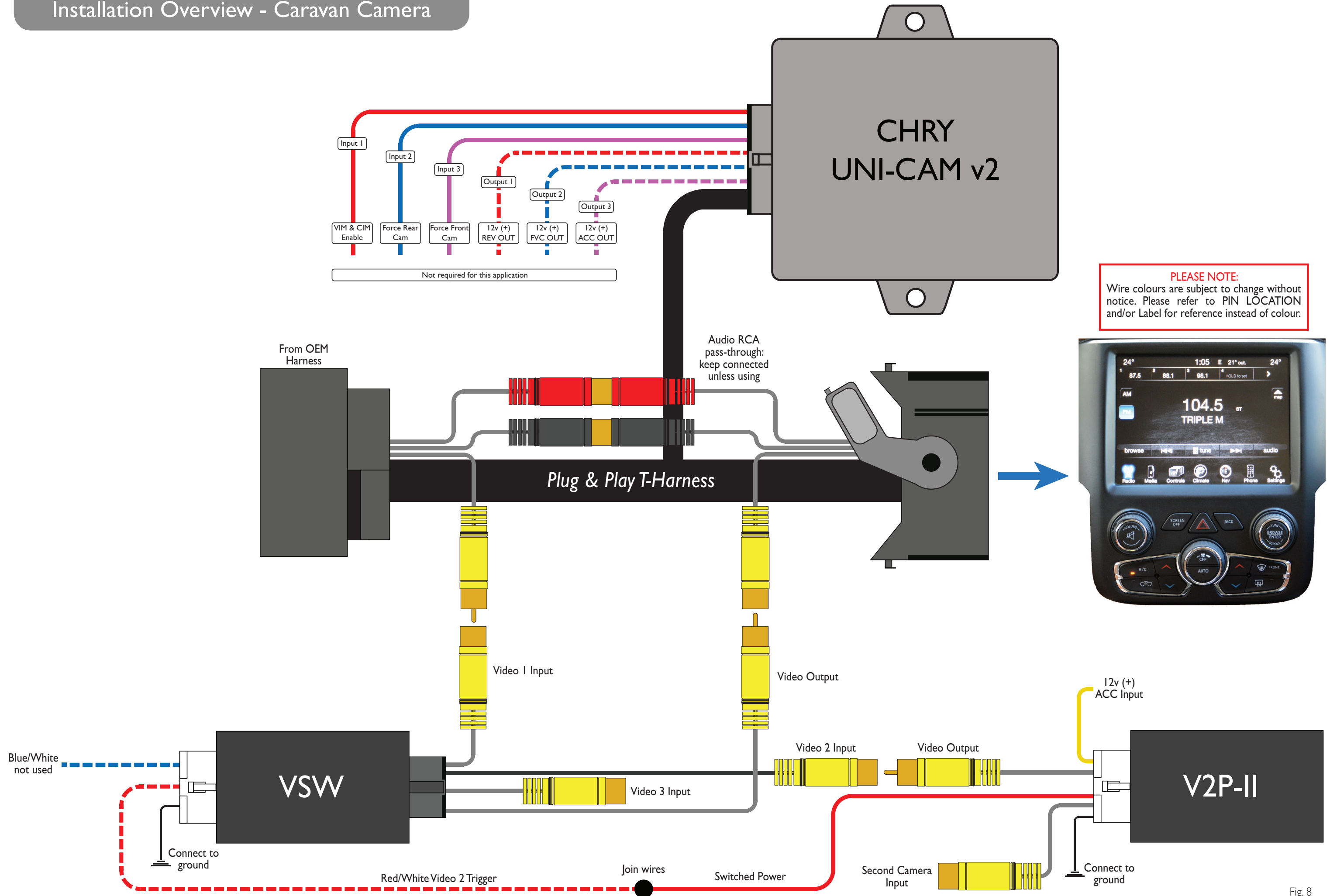


Fig. 8