

# NAV-TV

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## Ferrari Cluster MOD



### Overview

The Ferrari Rear-Cam Cluster modification allows input from 2 aftermarket cameras (rear & optional front). Reverse activation is automatic, and both cameras can be forced on at any time with wire triggers. Additionally, if the user chooses, the interface can be setup to automatically view the front camera for 10 seconds once the vehicle is in 1<sup>st</sup> gear.

### Kit Content



Interface/Cluster Harness  
*NTV-HARxxx*

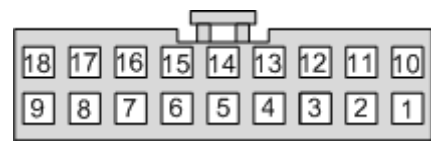


Ferrari RVC Interface  
*NTV-ASY166*

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## 18-PIN Connector Pin Out

PIN #	Description	Color
1	12v (+) Constant power	Yellow
2	INPUT 1 <b>Force RVC</b>	Red
3	INPUT 2 <b>Force FVC</b>	Blue
4	INPUT 3 <b>Auto-Front ACT</b>	Purple
6	RCA MALE (out to cluster)	Yellow
7	RCA Shield	--
8	CAN HI (Cluster Side)	Gray
9	CAN HI (Vehicle Side)	Gray
10	Ground (-)	Black
11	OUTPUT 1 <b>REV 12v out</b>	White/Red
12	OUTPUT 2 <b>FVC 12v out</b>	White/Blue
13	OUTPUT 3 <b>12v ACC</b>	White/Purple
15	RCA Female (FVC)	White
16	RCA Female (RVC)	Red
17	CAN LO (Cluster Side)	Purple
18	CAN LO (Vehicle Side)	Blue



**Wire Side**

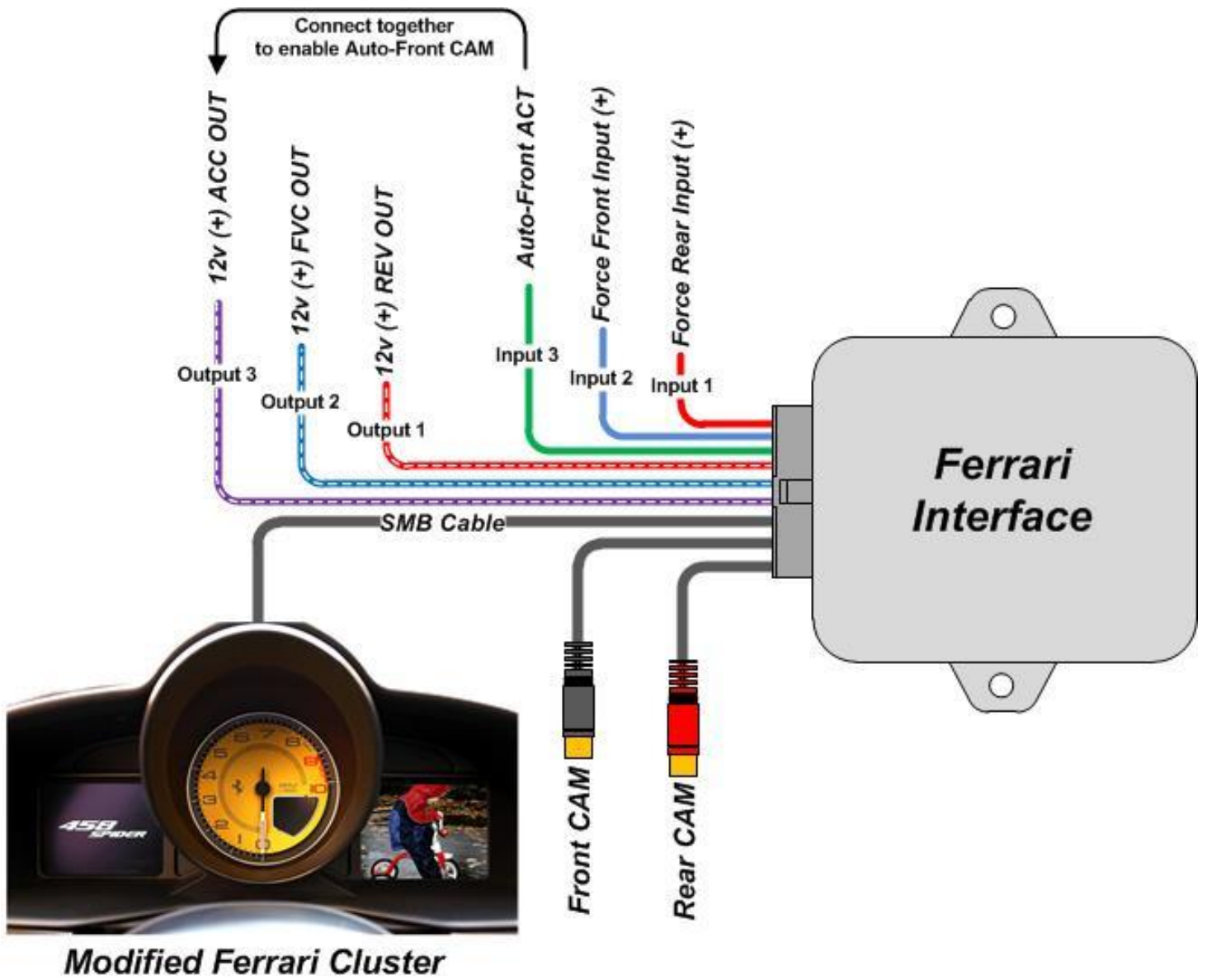
## Installation

***This instruction set assumes the Ferrari Cluster has been previously modified by NAV-TV.***

1. Install and run your camera(s) in the vehicle and run the power and signal RCA for each to the OEM cluster location.
2. Power your cameras with an ACC 12v (+) source. The interface module provides 12v ACC source from **OUTPUT 3 (white/purple)** if necessary. *Note: If your cameras draw more current (total) than 1 amp, use this output to trigger a relay for power to your cameras!*
3. **Optional:** If automatic front camera switching while in 1<sup>st</sup> gear is desired (like OEM), connect **INPUT 3** to **OUTPUT 3** or to a 12v ACC source. Input 3 activates this feature.
4. Connect the rear camera signal RCA to the female RCA from the interface labeled '**RVC**'.
5. Connect optional front camera signal RCA to the female RCA from the interface labeled '**Video IN**'.
6. Connect the male RCA labeled '**Video to Radio**' to the **SMB-RCA Adapter** which is already connected to the cluster.
7. **Optional:** If forced *rear camera* is desired, connect **INPUT 1 (Red)** to 12v ACC **through a toggle** (not included).
8. **Optional:** If forced *front camera* is desired, connect **INPUT 2 (Blue)** to 12v ACC **through a toggle** (not included).

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Installation Diagram



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