

# NAV-TV

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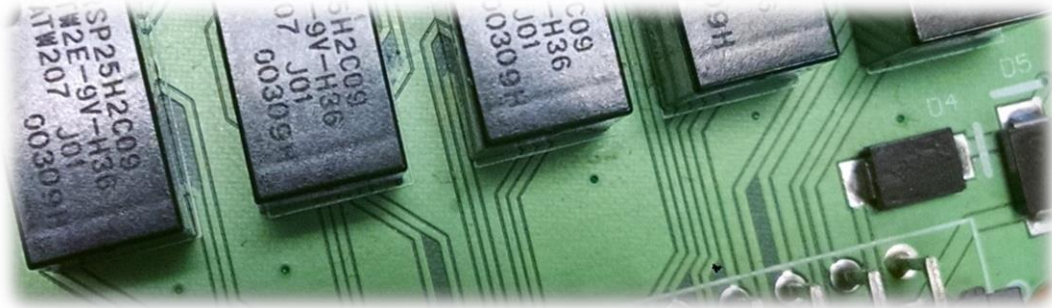
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BHM  
11/16/16  
NTV-DOC268

## AVSWv2

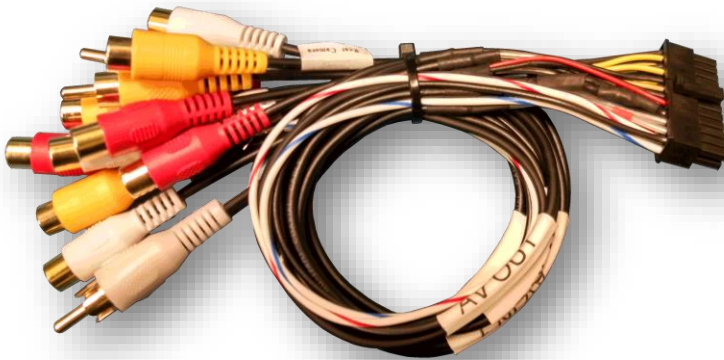
NTV-KIT781



### Overview

The AVSWv2 adds 2 additional set of Audio & Video inputs to any factory radio with a single A/V input, while retaining any currently connected A/V source (this may include an existing screen). The additional A/V sources are triggered with 12v (+) separately.

### Kit Content



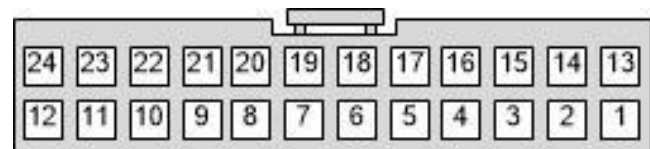
Power/Trigger Harness  
NTV-HAR293



AVSWv2  
NTV-ASY255

AVSWv2 Pin Out

Pin #	Description	Label/Color
1	AV 1 Trigger (+)	White/Blue
2	AV 2 Trigger (+)	White/Red
3	Audio IN Right (2)	Group Label 'AV2'
4	Audio IN Left (2)	Group Label 'AV2'
5	Audio IN Right (shield)	Group Label 'AV IN PASS'
6	Audio IN Right (signal)	Group Label 'AV IN PASS'
7	Audio IN Left (signal)	Group Label 'AV IN PASS'
8	Audio IN Left (shield)	Group Label 'AV IN PASS'
9	Video OUT (signal)	Group Label 'AV OUT'
10	Video OUT (shield)	Group Label 'AV OUT'
11	Video IN (2) (signal)	Group Label 'AV2'
12	Video IN (2) (shield)	Group Label 'AV2'
13	Ground (-)	Black
14	Audio IN Right (1)	Group Label 'AV1'
15	Audio IN Left (1)	Group Label 'AV1'
16	Audio IN (1&2) (shield)	---
17	Audio OUT Right (signal)	Group Label 'AV OUT'
18	Audio OUT Right (shield)	Group Label 'AV OUT'
19	Audio OUT Left (signal)	Group Label 'AV OUT'
20	Audio OUT Left (shield)	Group Label 'AV OUT'
21	Video IN (pass) (signal)	Group Label 'AV PASS IN'
22	Video IN (pass) (shield)	Group Label 'AV PASS IN'
23	Video IN (1) (signal)	Group Label 'AV1'
24	Video IN (1) (shield)	Group Label 'AV1'

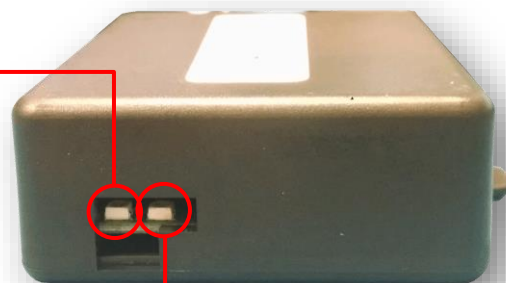


Wire Side View

AVSWv2 LED Indication

**LEFT LED:** emits when **AV1** is powered

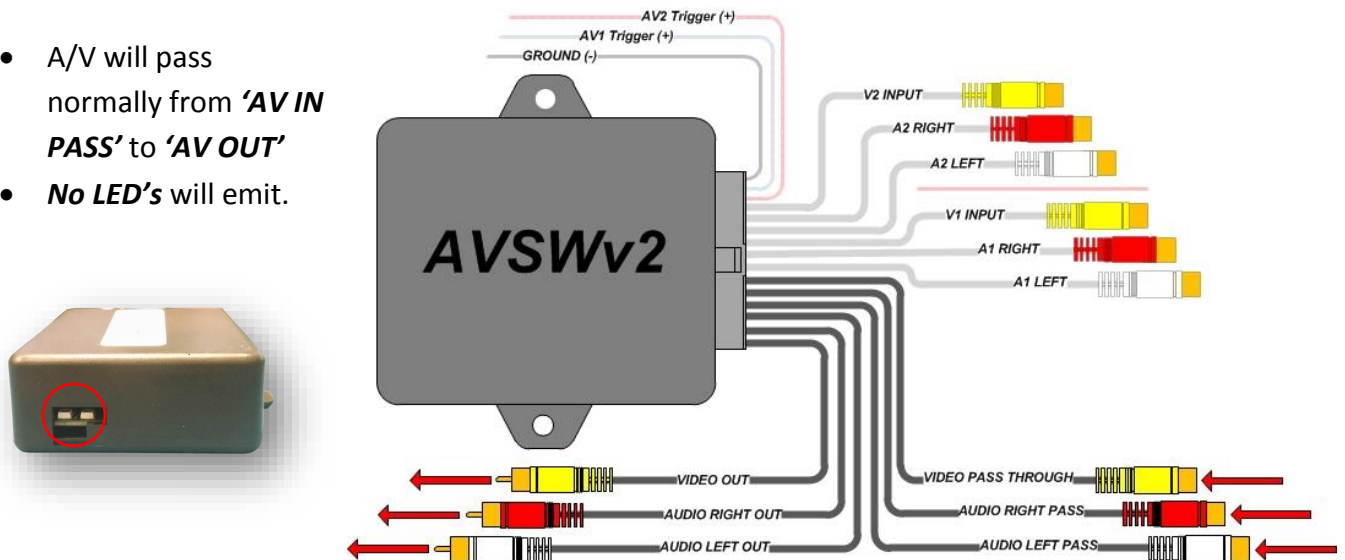
**RIGHT LED:** emits when **AV2** is powered



### AVSWv2 Signal Flow Scenarios

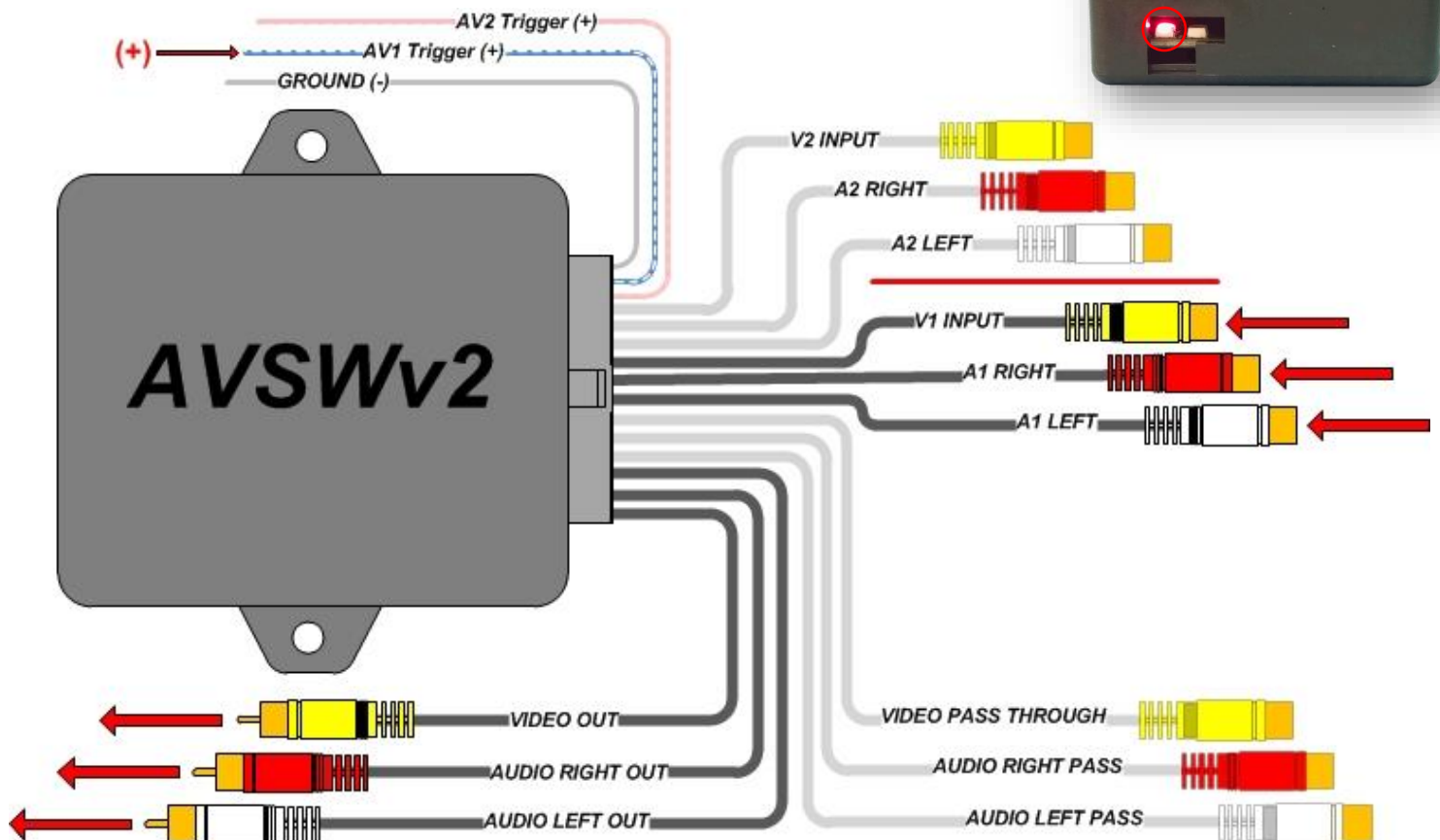
#### With no triggers connected to 12v (+):

- A/V will pass normally from 'AV IN PASS' to 'AV OUT'
- No LED's will emit.



#### Supplying 12v (+) to AV1 trigger (Pin 1, White/Blue):

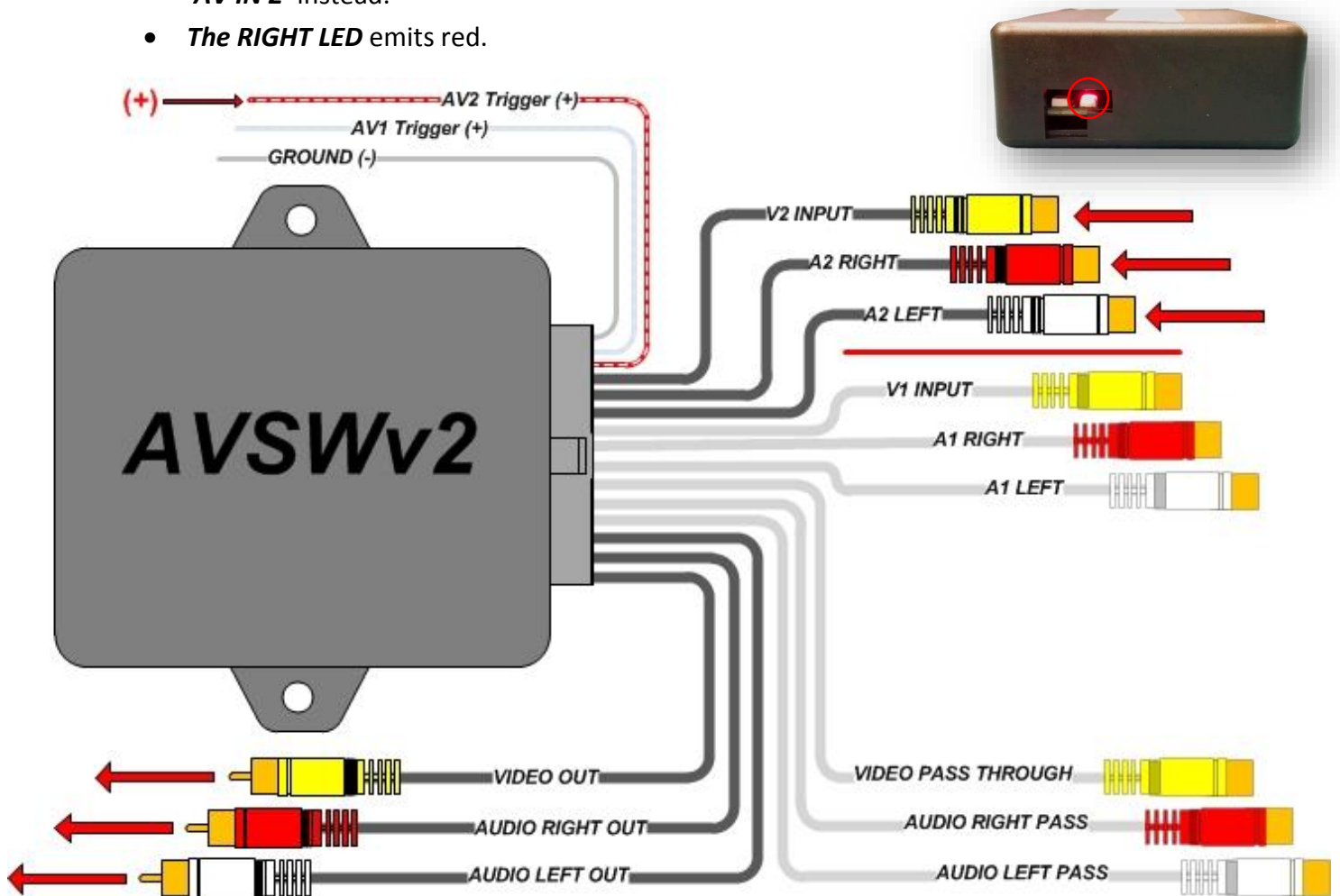
- A/V source from 'AV IN PASS' will be disconnected and A/V source will be supplied from 'AV IN 1' instead.
- The LEFT LED emits red.



AVSWv2 Signal Flow Scenarios (continued)

**Supplying 12v (+) to AV2 trigger (Pin 2, White/Red):**

- A/V source from 'AV IN PASS' will be disconnected and A/V source will be supplied from 'AV IN 2' instead.
- **The RIGHT LED emits red.**



**NOTE:** If both LEDs are lit (both trigger wires connected to (+) source simultaneously), AV1 will take priority and pass AV signal.



## AVSWv2 Installation / Operation

1. **AV IN PASS:** Typically connects to the VEHICLE side of the NTV-KIT's T-Harness.

Yellow: Factory/Aftermarket Backup Camera.

Red: Right Audio output from car – i.e. RSE, AUX, USB

White: Left Audio output from car – i.e. RSE, AUX, USB

2. **AV OUT:** Typically connects to RADIO side of the NTV-KIT's T-Harness.

Yellow: Video output directly to screen.

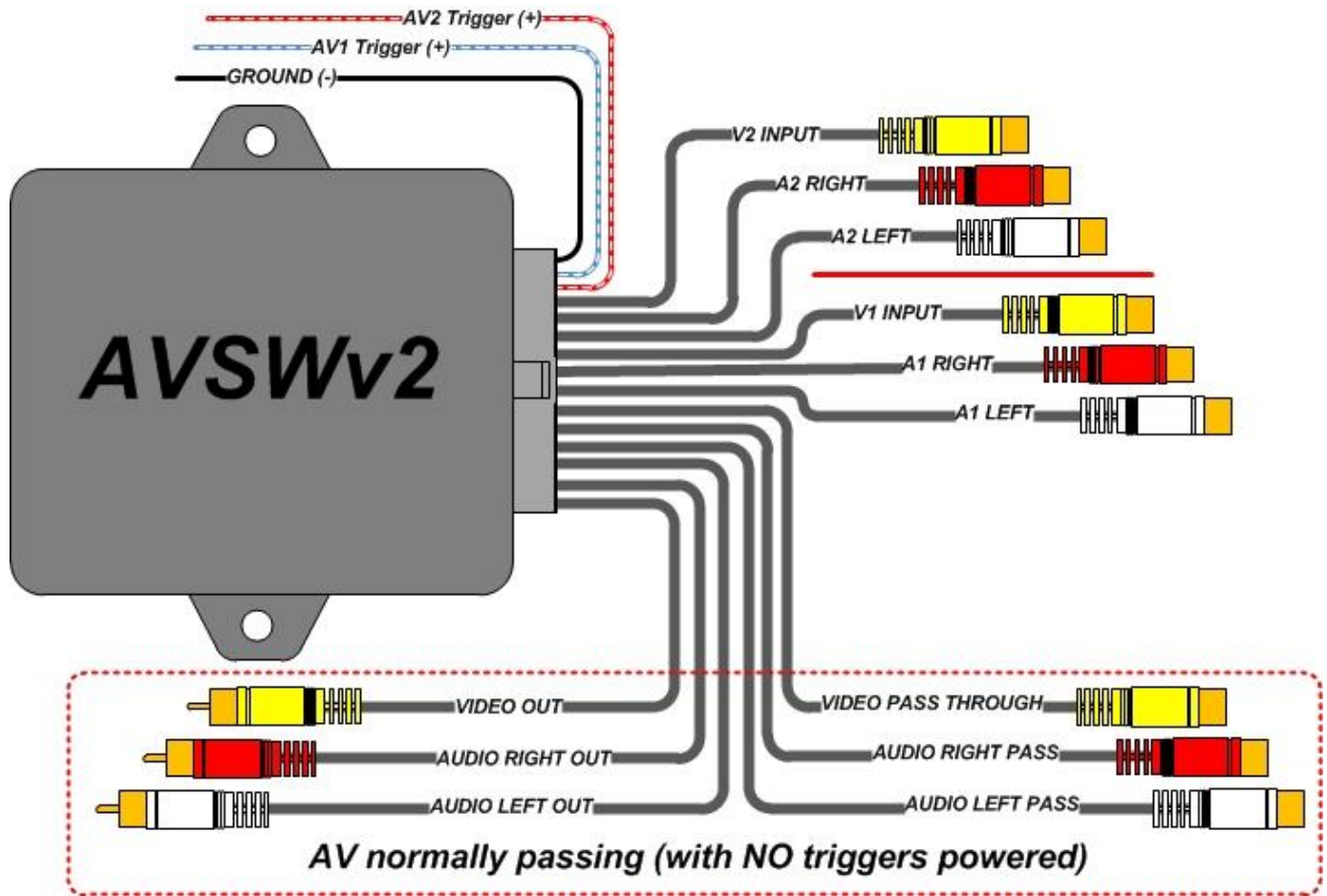
Red: Right Audio out to radio.

Left: Left Audio out to radio.

3. **V1:** Video input from external source 1 – displayed when the **White/Blue** is triggered with 12v (+).
4. **A1:** Audio input from external source 1 – used when the **White/Blue** is triggered with 12v (+).
5. **V2:** Video input from external source 2 – displayed when the **White/Red** is triggered with 12v (+).
6. **A2:** Audio input from external source 2 – used when the **White/Red** is triggered with 12v (+).

- Whenever 12v (+) is present on either AV trigger (pin 1 or 2), audio/video from the factory system is isolated and signal is instead passed from AV1 or AV2 (respectively).

General Connection Diagram



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