

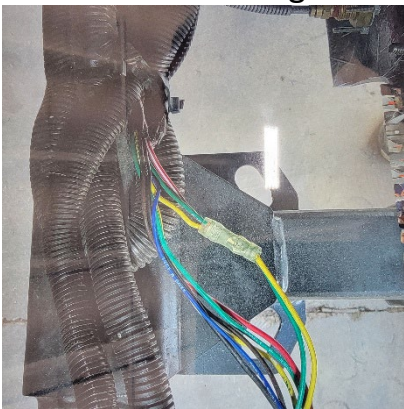
Purpose: To verify that the brake lights and turn signals function correctly.

Inspect

1. Start engine and turn on a turn signal.
2. Press brake pedal and if blinker stops working and only brake works, the wiring for the brake and turn signals need to be corrected.
3. Correct operation is the side the blinker is triggered should still blink and other side should be solid for brake.

Repair

1. Look to see if the wiring for the taillights has been connected as in the picture below.



2. If so, we need to cut this splice connection loose and install taillight converter.
3. This taillight converter can be purchased at Napa or any auto parts store.
4. Part number for the Napa kit is BK 7551596.
5. See following work instructions for installing the converter.

WORK INSTRUCTIONS

BK 7551596 (Hopkins 46255) 3-Wire to 2-Wire Tail Light Converter Installation

Purpose

Install a BK 7551596 powered tail light converter to convert separate vehicle brake and turn signals into a combined trailer stop/turn signal.

Required Tools

- Test light or multimeter
- Wire strippers
- Crimpers
- Electrical tape or heat shrink
- Cable ties
- Fused battery connection

Converter Wire Identification

Vehicle Side Inputs

Converter Wire	Connect To
White	Vehicle Ground
Brown	Tail / Running Lights
Yellow	Left Turn Signal
Green	Right Turn Signal
Red (Small)	Brake Light Signal
Red (Large)	Fused +12V Battery Power

Trailer Side Outputs

Wire	Function
Yellow	Left Stop/Turn
Green	Right Stop/Turn
Brown	Tail/Running Lights
White	Ground

Wiring Diagram

1 VEHICLE SIDE BK 7551596 TRAILER SIDE

2

3 Left Turn ----- Yellow

4 \

5 Brake Light ----- Red -----> Converter -----> Yellow = Left Stop/Turn

6 /

7 Right Turn ----- Green

8

9 Tail Lights ----- Brown -----> Brown = Tail Lights

10

11 Ground ----- White -----> White = Ground

12

13 Battery +12V (Fused) ----- Large Red

Installation Procedure

1. Verify vehicle battery voltage is present and battery is in good condition.
 2. Locate the vehicle rear lighting harness.
 3. Use a test light or multimeter to identify all circuits by function.
 4. Connect the WHITE converter wire to chassis ground.
 5. Connect the BROWN converter wire to the tail/running light circuit.
 6. Connect the YELLOW converter wire to the left turn signal circuit.
 7. Connect the GREEN converter wire to the right turn signal circuit.
 8. Connect the SMALL RED converter wire to the brake light circuit.
 9. Connect the LARGE RED converter wire to a fused constant 12V battery source.
 10. Secure all wiring and converter module with cable ties.
 11. Protect exposed connections using heat shrink or electrical tape.
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Functional Test

Tail Lights

- Turn on vehicle parking lights.
- Verify trailer running lights illuminate.

Left Turn Signal

- Activate left turn signal.
- Verify left trailer lamp flashes.

Right Turn Signal

- Activate right turn signal.
- Verify right trailer lamp flashes.

Brake Lights

- Apply brake pedal.
- Verify both trailer lamps illuminate.