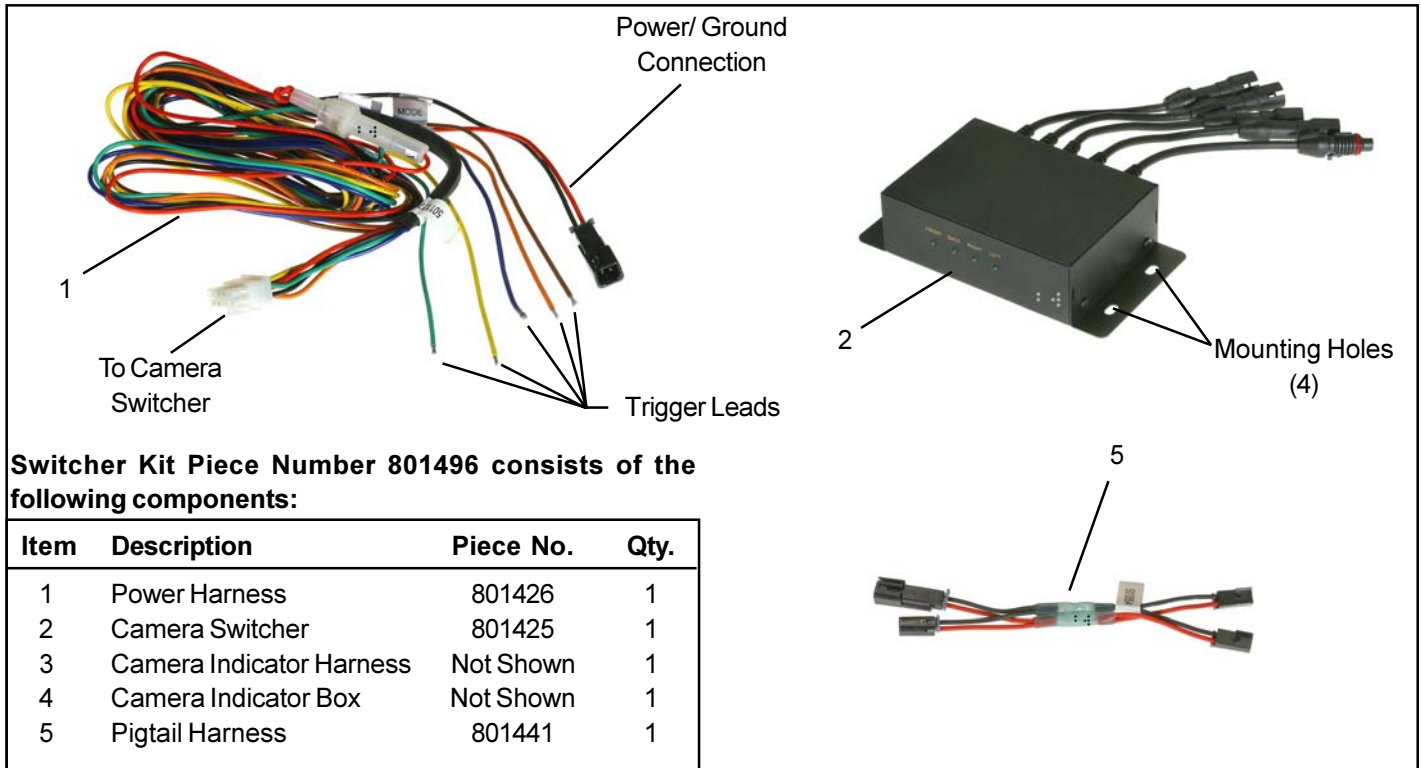




Installation Instructions

Camera Switcher & Power Harness Kit
 Piece Nos. 801496 and
 Component Piece Nos.
 801426, 801425 and
 801441



Switcher Kit Piece Number 801496 consists of the following components:

Item	Description	Piece No.	Qty.
1	Power Harness	801426	1
2	Camera Switcher	801425	1
3	Camera Indicator Harness	Not Shown	1
4	Camera Indicator Box	Not Shown	1
5	Pigtail Harness	801441	1

Figure 1 Camera Switcher Kit

DESCRIPTION

This instruction sheet is used to install the Camera Switcher Kit 801496 as well as the individual components, such as the Power Harness(1), Camera Switcher(2), Camera Indicator Harness(3), Camera Indicator Box(4) and Pigtail Harness(5).

IMPORTANT! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:

When working on or around a vehicle, the following general precautions should be observed **at all times**.

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels.
2. Stop the engine when working around the vehicle.
3. If the vehicle is equipped with air brakes, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle.
4. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in manner that removes all electrical power from the vehicle.
5. When working in the engine compartment the engine should be shut off. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated, or electrically charged components.
6. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.
7. Never exceed recommended pressures and always wear safety glasses.
8. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
9. Use only genuine Bendix® replacement parts, components, and kits. Replacement hardware, tubing, hose, fittings, etc. should be of equivalent size, type, and strength as original equipment and be designed specifically for such applications and systems.
10. Components with stripped threads or damaged parts should be replaced rather than repaired. Repairs requiring machining or welding should not be attempted unless specifically approved and stated by the vehicle or component manufacturer.
11. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.

INSTALLATION

The camera switcher(2) interfaces between the flat panel display junction box and cameras. Refer to Figure 4. The camera switcher(2) accepts up to four camera inputs and is used to automatically switch between these cameras based on triggered events. The front camera input is the default camera (the one that is displayed if no other triggering inputs are received). The right, left, and rear inputs are controlled by the corresponding 12V triggers on the power harness. If 12 volts is applied to the triggers individually, that camera image will be displayed. For example, to display the rear camera image automatically each time the vehicle is placed in reverse, connect the "rear" trigger wire to the +12V reverse signal.

The rear camera trigger takes precedence over all others. If all triggers are connected and the hazard lights are turned on, the camera switcher will activate the rear camera.

Notes: The system is designed to interface with a separate vehicle power harness provided by Bendix. This harness has an integral 3.0 amp ATO fuse and reverse battery protection diode. These components should not be removed unless the vehicle provides this protection.

When performing the following procedures be sure to follow standard commercial vehicle wiring practices and protection.

1. Locate the display junction box and connected camera harness in the vision system. Find a suitable location to install the camera switcher(2) between the two. Be sure that it is close enough, the short pigtail from the switcher needs to reach the junction box. If this is not possible, extension harnesses are available.
2. Use the camera switcher(2) as a template to mark the location of the four mounting holes. Drill 4 holes sized to your mounting hardware. Secure the camera switcher(2) using four screws or tape. A commercial grade double sided tape, such as 3M™ VHB™ Acrylic Foam Tape, can be used if the surfaces allow.
3. Identify the wire leads on the camera switcher(2) and connect to the appropriate harness or component. See Figure 3.
4. Ensure the cameras and triggers are connected to the correct locations.
5. Connect the 2 pin connector on the power harness(1) to the pigtail harness(5). The pigtail harness is connected to the vehicle power harness which is not a part of this kit.
6. Identify a suitable location for the indicator box(4). Attach using the Velcro® mounting tape on the bottom surface.
7. Using the camera indicator harness(3) connect the indicator box(4) to the camera switcher(2).
8. Verify that the correct image is displayed when the appropriate triggers are activated. Correct as necessary.

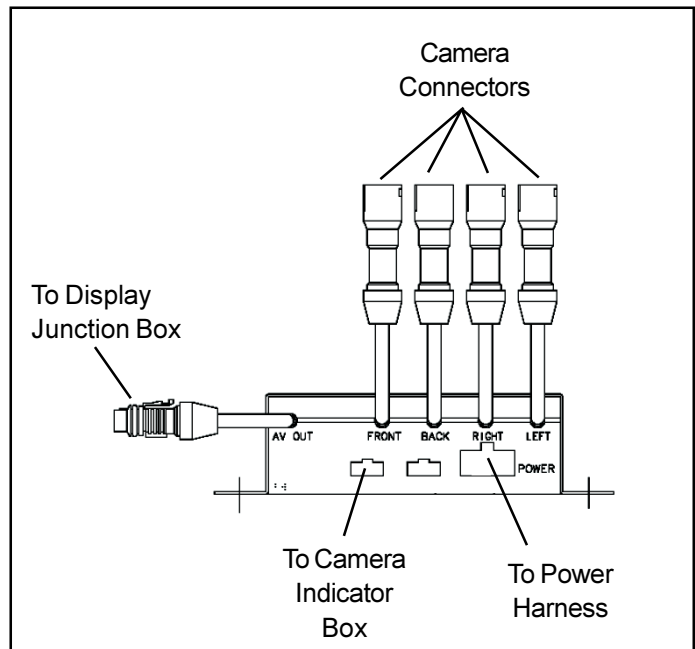


Figure 2 Camera Switcher

NOTE:

STOP Trigger: The "stop" trigger is used for school bus applications. If the "stop" signal is triggered at the same time as the "left", "right" or "back" signal is triggered, the "stop" will override the others. The stop signal defaults to the front camera.

MODE Trigger: When connected to 12 volts the right camera is the default. When connected to the ground the front camera is the default.

<u>Power Harness Triggers</u>		<u>Default Camera</u>
Left (Yellow)	} connect to appropriate 12V triggers	Left
Right (Green)		Right
Back (Blue)		Rear
Mode (Brown) GND / 12V		Front / Right
Stop (Orange) School buses	connect to stop arm trigger (otherwise not connected).	Front
PWR } GND }	2 Pin Packard Connector	

Figure 3 Power Harness Trigger Identification

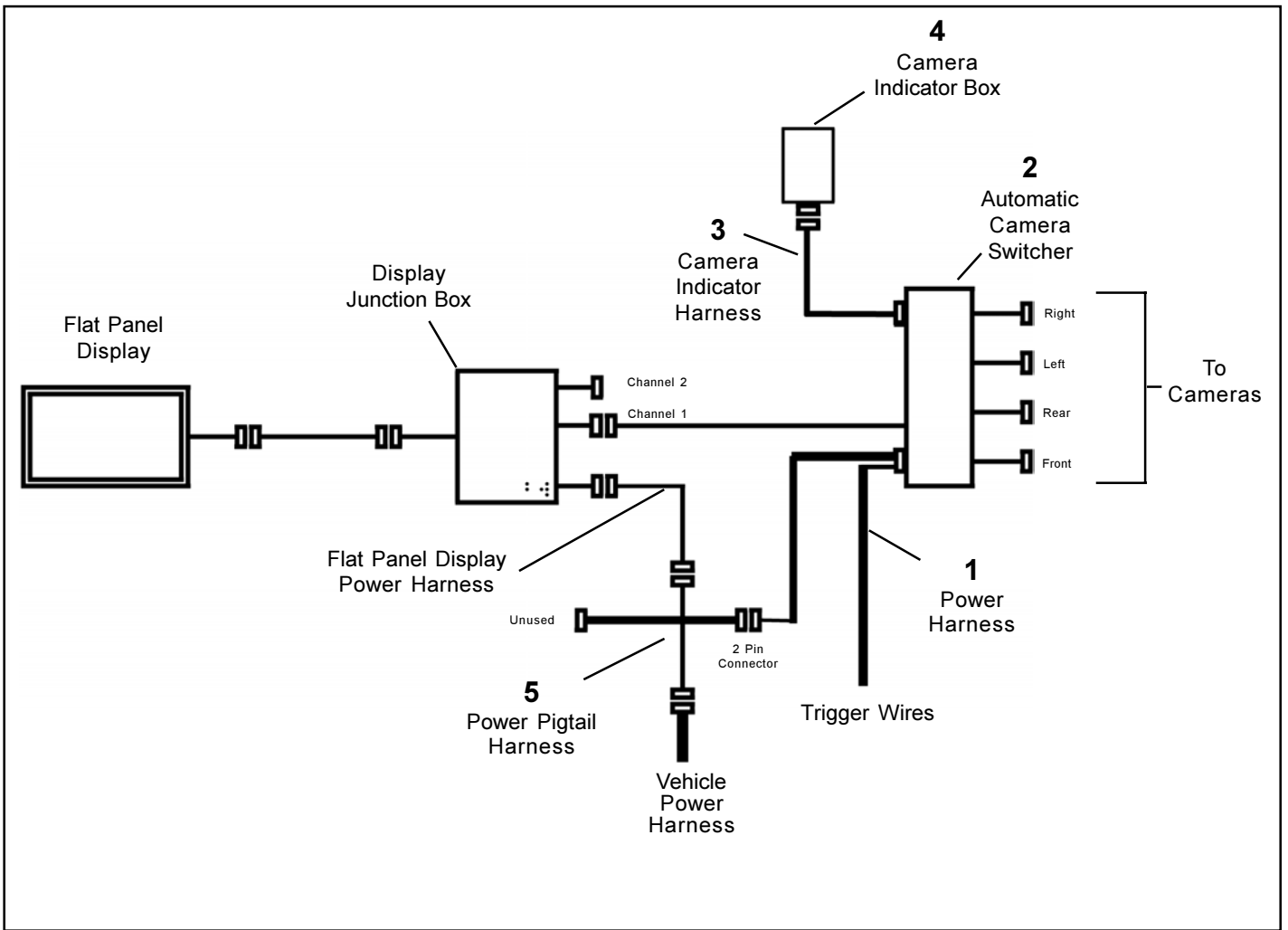


Figure 4 Typical System Schematic