



Ebling Back Blade/Standard Wiring/Vertical Pump
Truck Side Electrical Installation
REV 3 – 12/23/2021

Step 1 –

Locate Suitable Mounting Location for Circuit Breaker & Solenoid Near the Battery (Primary Battery in Dual Battery Systems).

Step 2 –

Attach 43” Red Cable from Positive Terminal of Battery to Battery Side of Circuit Breaker (With Breaker Turned Off, Cables Can Be Resized For Cleaner Look)

Step 3 –

Attach 32” Red Cable from Auxiliary Side of Circuit Breaker to Large Post of Solenoid (Either Post, Cables Can Be Resized For Cleaner Look)

Step 4 –

Choose Location to Mount Remote Switch and Control/Power Plugs on Drivers Side Rear of Bed. Check Plug Clearance Before Choosing Plate or Box Wall Mount. (Refer to Illustration #2) If a Bed Liner is Present it Will Need to be Trimmed to Expose Bed Wall or Clearance For Plugs/Switches on Switch Plate.

Step 5 –

Drill Holes Needed for Control Plug, Remote Switch, Power Plug Bracket & Cables and Switch Plate If Used.

If Switch Plate is Used a 1 1/4” Hole Needs To Be Drilled to Accommodate Harness and Grommet, 2-7/8” Holes Are Needed For The Power and Ground Cables, In Addition to 9/32 Holes Needed for Plate & Plug Mounting Hardware.

If Switch Plate is Not Used, 2-2 1/8” Holes Are Needed For Remote Switch and Control Plug, 2-7/8” Holes Are Needed For The Power and Ground Cables, In Addition to 9/32 Holes Needed for Plate & Plug Mounting Hardware.

Step 6 –

Route Control Harness / Power Cable Bundle Through Box Wall & Switch Plate if Used. (Refer to Illustration #2)

Step 7 –

Attach Remote Switch to Recessed Switch Plate, Using Weather Resistant Boot and Plug into Main Harness. **(Note: There are 3 Wires Blunt Cut and Taped to Main Harness Near the 7-Way Control Plug, These Wires Run Into the Cab to the 6 Wire Plug. The Wires Have Been Added to the Harness as a Convenience if You Need to Have Wires Available at the Rear of the Truck for Accessories Such as Lights.)**

Step 8 –

Bolt Control Plug & Recessed Switch Plate to Box Wall or Mounting Plate (Refer to Illustration #2)

Step 9 –

Feed Red and Black Cables from Underneath Through Holes in Bed and Connect to Power Plug (Be sure to connect red to + and black to -) (Refer to Illustration #2)

Step 10 –

Find Suitable Place on Frame to Attach Black Ground Cable, Making Sure Frame is Ground Bare and Clean for Good Ground Connection.

Step 11 –

Route Control Harness / Power Cable Bundle Along Drivers Side of Frame to Firewall, Wire Tie and Shield Bundle to Avoid any Sharp Edges.

Step 12 –

Feed Controller Wire Bundles through Appropriate Opening in Firewall and into Cab.

Step 13 –

Connect Wire Labeled “Red/White” w/ In-Line Fuse to an Ignition Switched Power Source.

Step 14 –

Plug Controller Individual Wires into Controller Plug (12 Pin) as Labeled (Wire Color Code to Numbered Position) as Shown in Illustration #3. Plug Controller Individual Wires into Controller Plug (6 Pin) as Labeled (Wire Color Code to Numbered Position) as Shown in Illustration #3. Wire Tie Harness Under Dash Leaving Controller Plug Accessible & Plug in Control Box.

Step 15 –

Route Power Harness Under Hood to Solenoid Installed in Step 1, Making Sure to Route Away from Heat Sources & Sharp Edges. Wire Tie Securely.

Step 16 –

Attach Red Power Cord to Empty Large Post On Solenoid, Small “Violet” Wire to Small Post on Solenoid (either post), Small “Black” Wire to Battery Ground, Small “Red” Wire w/ In-line Fuse to Battery Positive (or Battery Side of Circuit Breaker). Install Individual Small “Black” Wire From Parts Bag Between Remaining Small Terminal On Solenoid to Suitable Ground. See illustration #4.

Step 17 –

Install 3/2” (1/0) Ground Cable from either Engine Block or Negative Battery Post to Frame. This Cable Insures a Solid Ground to Pump.

Step 18 –

Reset Circuit Breaker Installed in Step 1. Installation is Complete.

Illustration #1

Install Circuit Breaker and Solenoid on Bracket as Shown. If Bracket Cannot be Used Choose a Location Where Circuit Breaker and Solenoid Will Be Protected From Being Damaged or Terminals Contacting Parts of Vehicle.



Typical GM Installation on Passenger Side of Engine Compartment



Typical Ford Installation on Passenger Side of Engine Compartment 2016 and Prior



Typical Ford Installation on Passenger Side of Engine Compartment 2017 - Current



Typical Dodge Installation on Driver Side of Engine Compartment

Illustration #2

Install Remote Switch and Plugs on Drivers Side, Inside of Box, At Rear.



Typical In Box Wall Installation



Typical Switch Plate Installation



Typical Flatbed Installation



New Ram Box Installation

Remote Switch & Control Plug

GM, Most Dodge Models & 2017-Current Fords can be Mounted Directly to the Truck Box Wall with Two – 2-1/8” Holes.

Ford 2016 & Prior and Late Model Dodges Require a Switch Mount Panel (included in the mount box) with 1-1/4” Hole in Inner Truck Box Side for Routing Control Harness to Frame Area.

Dodge With Ram Box Option See Illustration #2

Power Plug and Bracket

Bend Power Plug Bracket as Needed to Fit Inner Bed Wall. Bracket is Bolted to Bed Wall with 2 – 1/4” Bolts, Washers & Nylocks. 2 – 7/8” Holes Will Need to be Drilled to Accommodate Power Cables & Grommets. Power Plug is Attached to Bracket with 2 – Hex Socket Head Bolts & Nylocks.

Illustration #3

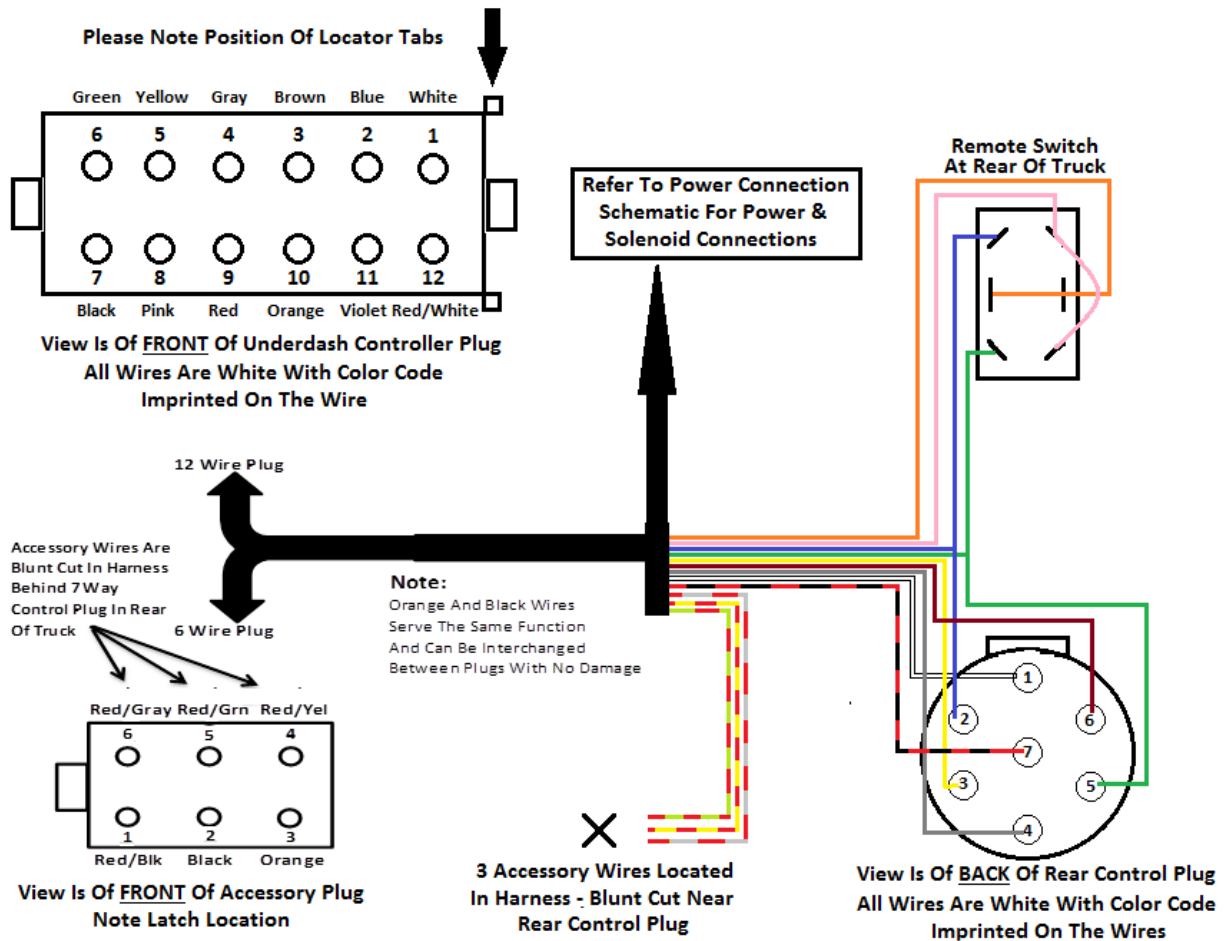


Illustration #4

