

HYDRASTX® Controls Installation Instructions

1.) Install compression grommet for cable exiting purposes

- a. Using 1-3/8" stepper bit (*Image A*) – drill hole through cab behind back seat or through floor under back seat – whichever is the best suitable location
- b. Install 1" Compression bushing (*Image B*) for cable exiting purposes

Image A



Image B



Image C

2) Routing HydraSTX® main harness from inside of the cab to outside of cab

- a. Locate and plug 12-pin connector into In-Cab controller (*Image C*)



- b. Use cable tray located underneath driver side door sill to neatly route the main harness from underneath dash to underneath the back seat (*Images D, E, F*)
 - i. *If inadequate clearance is experienced in cable tray, route cable under floor carpet next to cable tray*
- c. Secure cable from front of cab to back of cab. Coil excess cable behind back seat if necessary
- d. Route accessory connector ends through 1" compression bushing installed in step (1)(a) from inside of cab to outside of cab

NOTE* Compression grommet must tighten down onto the heat shrink where main cable splits into accessory ends

NOTE** Harness is designed to accommodate crew cab applications. Coil excess cable underneath/behind seat for regular cab and extended cab installations

Image D



Image E



Image F



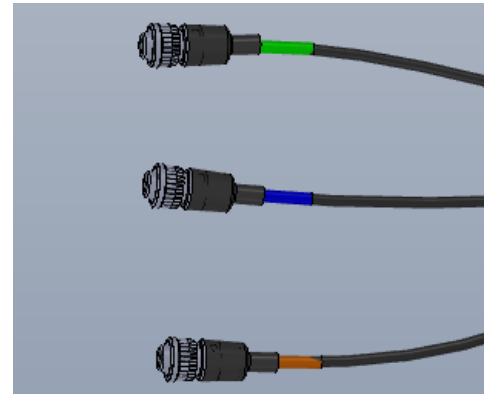
Image G

- 3) Plug single pin Weather Pack with 8' red conductor, supplied in EL-SK100 with pump, into pump clutch (*Image G*)



Image H

- 4) Connect 3-pin connectors on main harness into corresponding servos (*Image H*)
- Green – Grip/Release (*Top servo*)
 - Blue – Load/Unload (*2nd Servo from Top*)
 - Orange – Aux A / Aux B (*3rd Servo from Top*)



- 5) Connect PGC (*Power/Ground/Clutch*) cable's 3-pin connector (*Image I*) into main harness underneath truck
- Route PGC cable to engine compartment securing along frame of truck
 - Connect White – Black - Red conductors as follows:
 - White - **"Clutch Conductor"** Route to engine compartment and find ideal location to butt connect conductor with previously installed conductor with single pin Weather Pack connector on pump clutch in step 3.
 - If installing an E/H unit - this conductor will not be used and needs to be protected from short circuiting to ground*
 - Black – **"Ground Conductor"** Connect directly to negative terminal on truck battery
 - Red – **"Power Conductor"** Connect to upfitter bundle keyed power circuit or keyed power circuit in fuse box using included 15 amp Add-A-Fuse Assembly. If using Add-A-Fuse assembly, do not use any circuits that may be controlled using sensors (Ex. Automatic Headlights, def heater)
 - Contact factory for proper ignition circuit if necessary.

Image I



Image J

6) If installing **E/H unit**

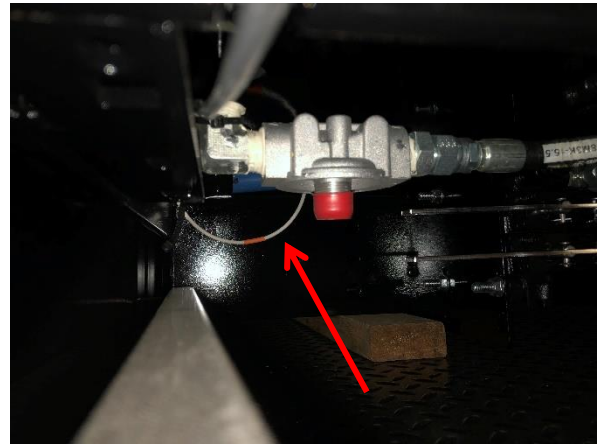
- a. Plug single pin Weather Pack with 8' red conductor (*Image J*) into white conductor single pin Weather Pack on main harness
- b. Route red conductor to the small stud on the E/H solenoid. If installing engine driven pump this conductor will not be used.



Image K

7) If installing optional **work lights**

- a. Plug orange conductor single pin weather pack on main harness into mating single pin Weather Pack pigtail found in work lights kit
- b. Route pigtail and connect to white conductor with orange heat shrink, located behind the hydraulic oil filter underneath the driver's side of the HydraBed (*Image K*), using a blue heat shrink butt connector.
- c. **NOTE! DISCLAIMER:** This circuit was designed to be used only with the (2) LED lights **provided by HydraBed**. If you are using any lights other than the recommended lights from HydraBed, check that the anticipated electrical load will not exceed 2.5



Amperes. If the anticipated electrical load is to exceed 2.5 amperes – a secondary relay must be used to prevent damage to the HYDRASTX® in-cab controller. The LIGHTS output can be used to control the secondary relay – but it will not support the added electrical load of unintended lights (*Example: more than (2) HydraBed LED lights, incandescent lights, any electrical load of more than 2.5 Amperes*).

Verify that all components and wiring are properly secured and away from any hot/moving parts.

