

WIRING UNIT

INSTALLATION

STEP 5 INSTALLING THE WIRING

(How does Sto-Away expect me to fit under this truck? Hey Louie get the skinny new kid over here!!)

And you have guessed it right. This is the fun part.

Now you are ready to route the winch's power leads and the optional Rocker Switch wiring to the front of the truck. Fishing all these wires around Hot things, Sharp things, and Moving things needs to be done right the first time. So take your time and completely pre-plan your actions. I must point out a few key Safety notes.

1) Mount the main power cables and control wiring as, not to come in contact with any sharp edges, pinch points, or moving parts. Secure the wiring with as many nylon wire ties as needed.

2) Keep in mind that the catalytic converter becomes extremely hot and do not route the wiring near the exact system. Take note where the truck manufactures places there wiring. This will give you a good idea where to go.

WARNING: DO NOT ROUTE POWER LEADS ON ANY BRAKE OR FUEL LINES; THESE POWER LEADS DO CARRY LARGE AMOUNTS OF AMPERAGE AND CAN EASILY BURN THROUGH METAL FUEL AND BRAKE LINES.



REMEMBER:

USE COMMON SENSE THAT GOD GAVE YOU, AND DON'T BE IN A HURRY OR AFRAID TO GET HELP, A PERSON'S LIFE MAY BE AT STAKE AND IT MIGHT BE YOURS! TAKE YOUR TIME, ROUTE, AND SECURE POWER LEADS PROPERLY!!!!

INSTALLATION

STEP 7: THE ELECTRICAL CONNECTIONS & TESTING CONTROLLER

(Hey, gopher, get me two 1/2", 7/16" and 3/8" open ends and DON'T TOUCH THAT BATTERY LEAD WIRE till I'm done)

WARNING: The last connection made is to the hot side of the battery.

Common sense should tell you that this is the **ONLY SAFE WAY** to work with the power leads and always use the circuit breakers supplied with the bumper crane.

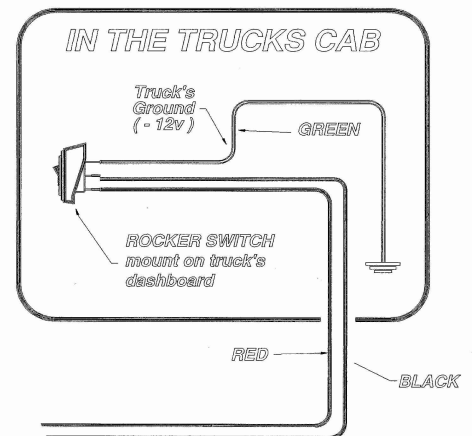
The **Sto Away Power** Crane is shipped completely wired and tested and the only connections should be to install the Rocker (off/on) Switch and the battery connection. To install the Rocker Switch you will need to:

First route the red and black 2 conductor 18 ga parallel wire up to the dash of the truck, or to the point where you wish to mount the switch. Keep in mind about **Hot, Sharp, and Moving parts** under the truck that we talked about earlier.

Mount the Rocker (off/on) Switch where it is safe from knee caps and can be easy enough to reach.

Note: The Rocker (off/on) Switch is illuminated when turned on (if it is properly wired). The switch needs to be grounded to the truck's chassis in order to become lit.

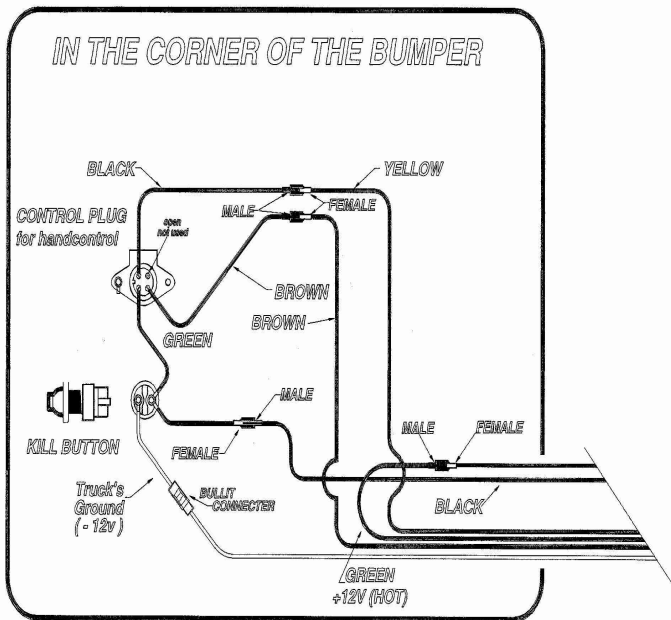
KEY INSTALLATION NOTE: This bumper crane absolutely needs a **clean, dry, and solid battery ground**!!! Without this you will run the risk of burning up the winch motor due to low voltage across the motors whining. Also the control and emergency kill circuits may not respond as they should. You shouldn't need



to work on the wiring under the black cover for quite some time as long as the unit always has solid connections, but if you need to, keep two thoughts in mind.

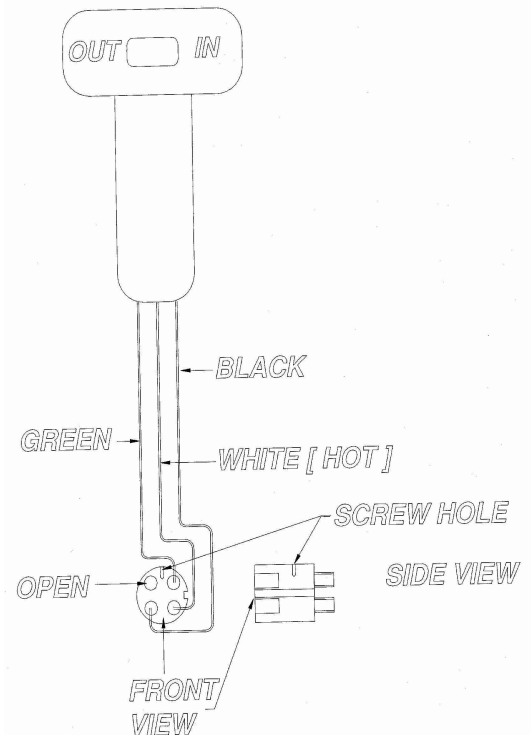
One is that all of the solenoid connections are covered with a waterproof coating that will break loose if you break any fitting. And the second is below.

INSTALLATION NOTE: WHEN MAKING THE WIRING CONNECTIONS ALWAYS HOLD THE BACK JAM NUT (found on the winch motor and solenoid posts) TO TIGHTEN OR LOOSEN THE CONNECTION!! IF YOU DON'T, YOU RUN THE RISK OF DAMAGING THE INTERNAL CONNECTIONS OF THE SOLENOIDS AND/OR WINCH MOTOR & YOU CAN KISS THE WARRANTY COVERAGE GOOBYE!!!!



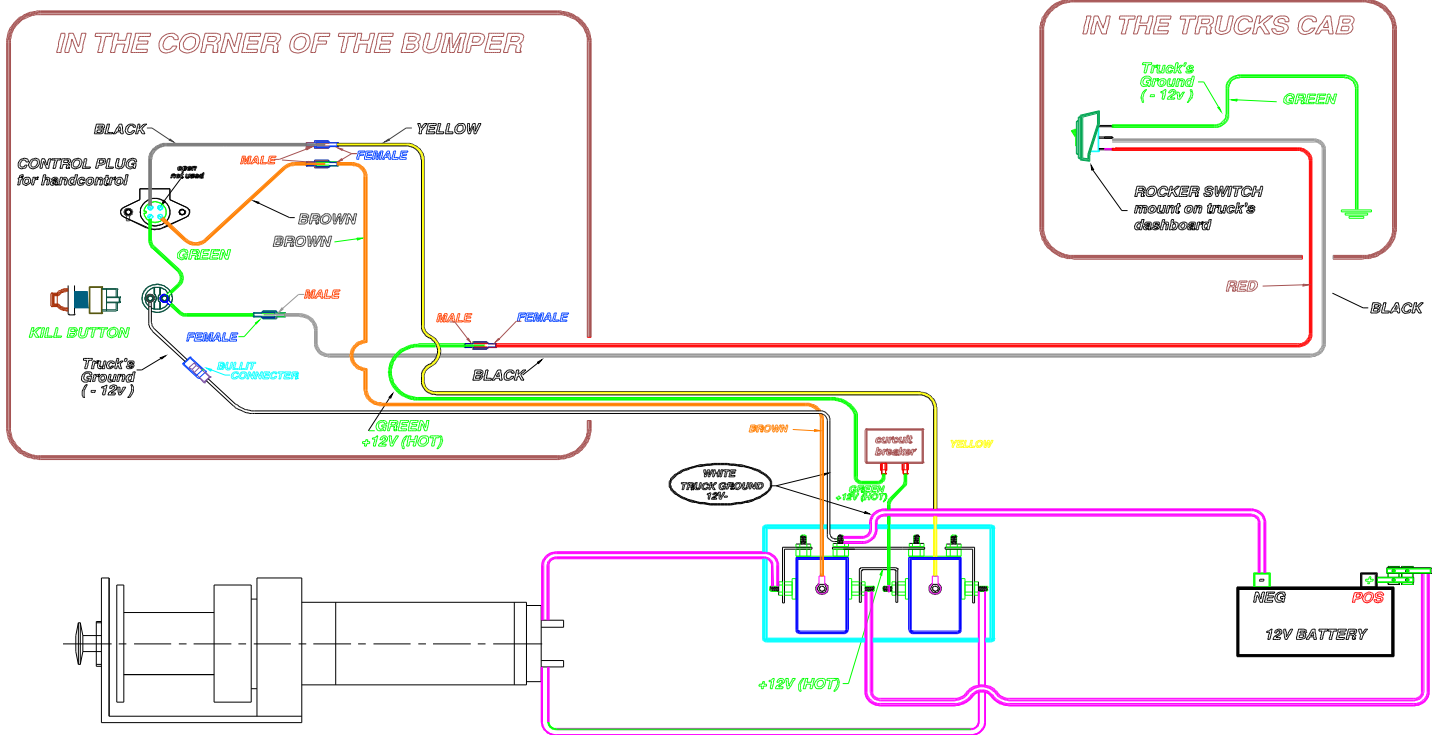
Now you are ready to connect the circuit breakers to the battery and test the direction of the lifting cable to the hand controller. If the lifting cable moves in an opposite direction, then switch the two wires coming off the control plug. The black and brown.

Should the hand controller work in one direction only, then the wiring connections at the male & female plug are misaligned. Remove the small set screw located on each of the plugs and push the wiring out through each of the plugs and see if they match up wire for wire.

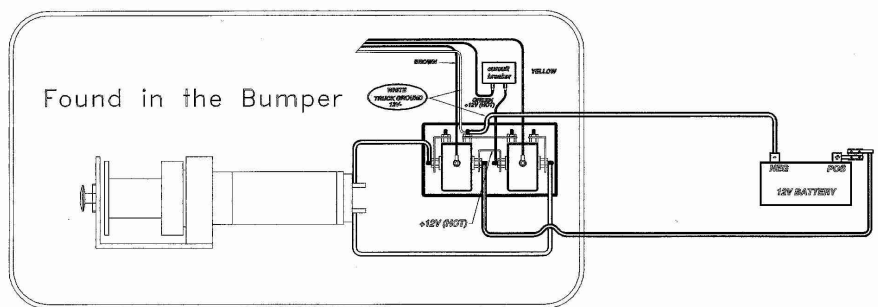


The complete wiring schematic is in the figure below.

INSTALLATION



SECTION 2.3



BATTERY SCHEMATIC

CAUTION: Do not tie any of the wiring to any part of the fuel system. Keep wires away from hot or moving parts.

CAUTION: Do not operate the winch without circuit breakers, or do not bypass the circuit breakers. Bypassing creates a dangerous situation to the personal safety of the operator.

Your crane is now ready for operation. Refer to operation section of this manual before operating. Read it carefully and follow all instructions for proper and safe procedures.

ELECTRICAL CONNECTIONS

It is imperative that all electrical connections are clean, dry and secure. Loose nuts, corroded terminals, and cracked or stripped wire insulation, robs the winch motor of the required voltage and amperage to lift or pull sustained heavy loads.

