



Bulldog RV Landing Gear

Read, Understand, Follow and Save These Instructions

Installation Instructions

Warning: Failure to follow all warnings and instructions may result in product failure, property damage, serious bodily injury, and/or death.

All welding must be performed by a certified AWS welder. Use caution during installation to ensure the motor does not receive sharp blows or other stresses due to a drop, tip over, etc.

- 1) Position weld brackets to frame member in such a manner so that welded tabs on jack are captured as shown in fig. 1.
- 2) Affix weld brackets to frame member using 1/4" fillet welds on both sides.
- 3) Secure the jack to the brackets with supplied carriage bolts and nuts. Torque to 25 ft-lbs.

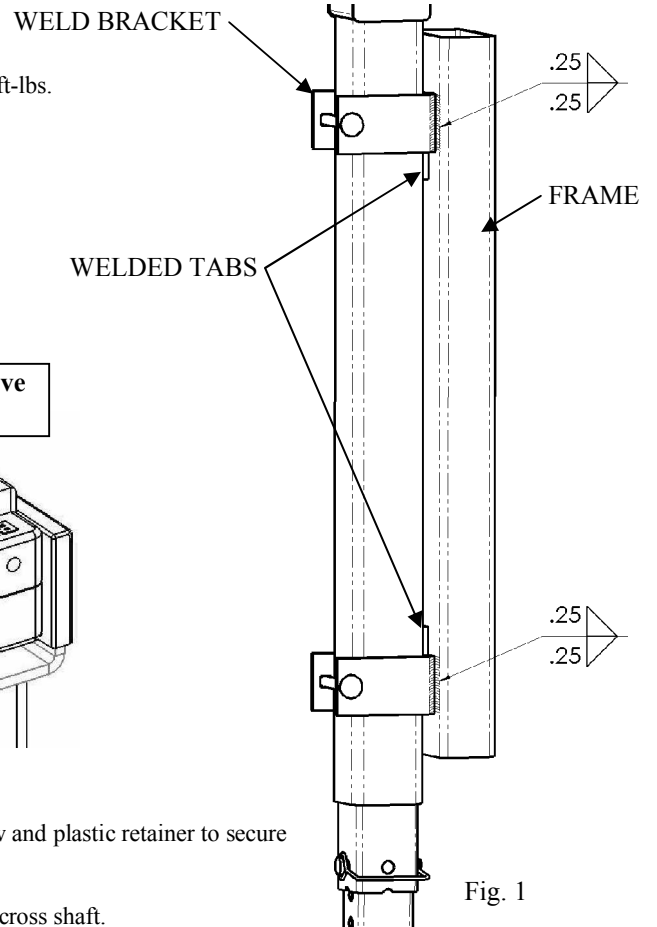


Fig. 1

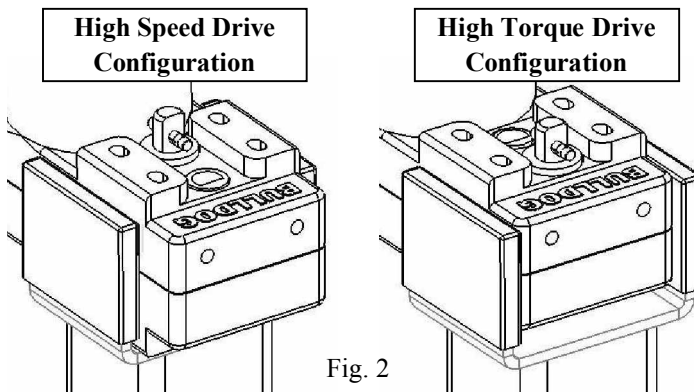


Fig. 2

Traditional Landing Gear Configuration.

Install gear reducer box onto the jack with the longer input shaft. Use supplied screw and plastic retainer to secure reducer to jack input shaft.

Attach electric gear motor to the reducer box using supplied machine screws.

Install the telescoping cross shaft between the jacks. Dual motor kits do not include cross shaft.

Install pull-pin assemblies (if included) to bottom of inner tube using supplied hardware. Torque bolts to 15 ft-lbs.

Install foot plates to jack tube with supplied lynch pins.

Mount switch and connect wires according to attached wiring instructions.

Traditional LG Wiring *Required wire gage 10 AWG minimum for all RV landing gear wiring connections*

The shorter PINK (+) and BLACK (-) leads from the switch connect directly to the battery terminals.

The longer RED (+) and BLACK (-) leads from the switch connect to the RED and BLACK motor leads. Connect like color wires together.

500168 uses two switch assemblies, one for each drive motor.

Dual Output Powered Drive Landing Gear.

Install footplates to drop tubes with supplied lynch pins.

Disconnect the battery ground cable(s).

Use the attached template for installing the switch and carefully route the wires to avoid the possibility of chafing.

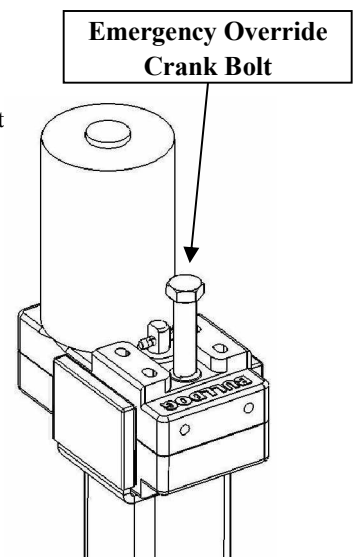
Use plastic loom (not included) if necessary to protect wires.

Refer to the attached wiring diagrams for correct wiring instructions. **NOTE:** High Speed Drive and High Torque Drive variations (fig. 2) are not wired alike.

Reconnect the ground cable to the battery and test both jacks to ensure they travel in the correct EXT (extended) and RET (retracted) directions.

To reset the overload circuit breaker, push in the respective button.

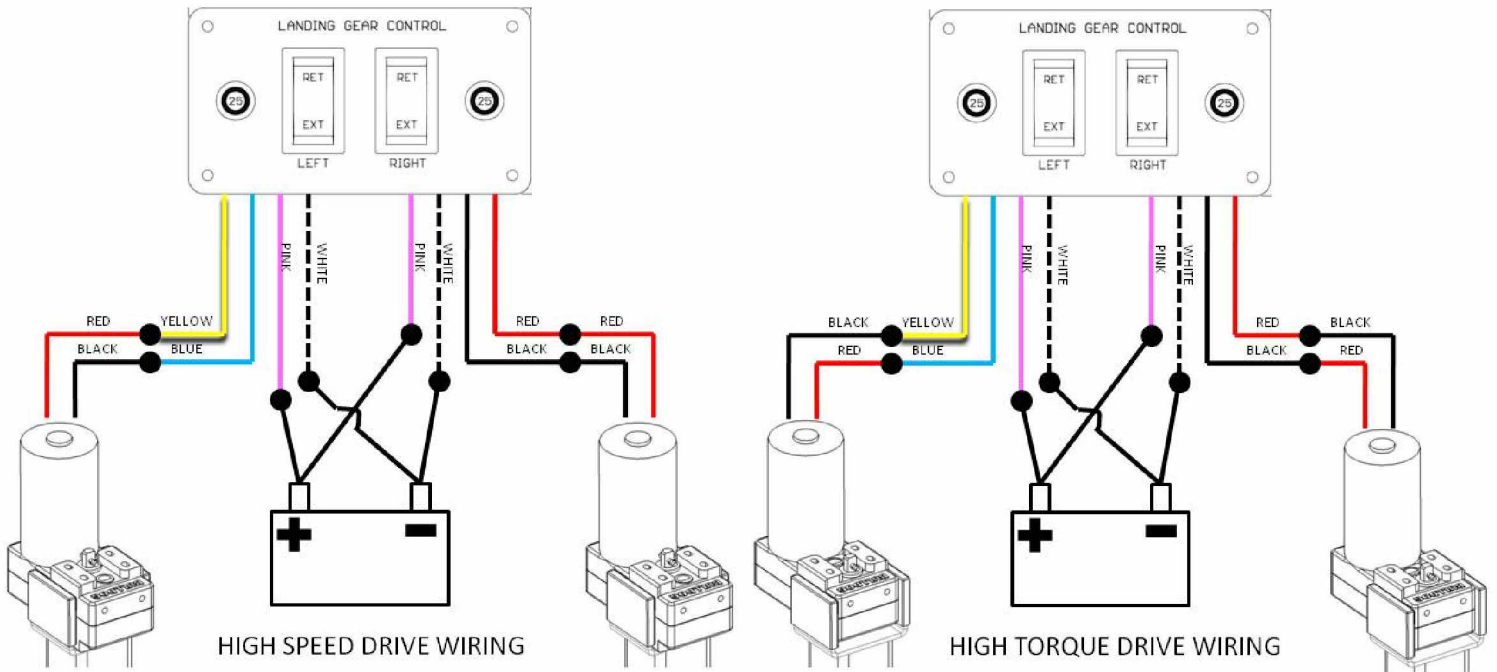
In the event of a vehicle power loss or motor malfunction, insert the special Emergency Override Crank bolt (3/4" hex head) included into the open drive hole on the motor and crank the jack manually using a ratchet or similar tool.



Dual-Drive Wiring Instructions

High Speed Wiring Schematic *Required wire gage 10 AWG minimum for all RV landing gear wiring connections*

- Connect both PINK wire leads from the switch panel directly to the POSITIVE (+) battery terminal
- Connect both WHITE wire leads from the switch panel directly to the NEGATIVE (-) battery terminal
- Connect the YELLOW wire lead from the switch panel to the RED motor lead on the left side jack
- Connect the BLUE wire lead from the switch panel to the BLACK motor lead on the left side jack
- Connect the RED wire lead from the switch panel to the RED motor lead on the right side jack
- Connect the BLACK wire lead from the switch panel to the BLACK motor lead on the right side jack



High Torque Wiring Schematic *Required wire gage 10 AWG minimum for all RV landing gear wiring connections*

- Connect both PINK wire leads from the switch panel directly to the POSITIVE (+) battery terminal
- Connect both WHITE wire leads from the switch panel directly to the NEGATIVE (-) battery terminal
- Connect the YELLOW wire lead from the switch panel to the BLACK motor lead on the left side jack
- Connect the BLUE wire lead from the switch panel to the RED motor lead on the left side jack
- Connect the RED wire lead from the switch panel to the BLACK motor lead on the right side jack
- Connect the BLACK wire lead from the switch panel to the RED motor lead on the right side jack