

4 INITIAL START-UP



Before connecting power to hoist, check all control buttons / switches to make sure that they operate freely without binding or sticking. Check power and control cables to ensure that they are not damaged.

4.1 General

Initial start-up procedures are as follows:

- Read all attached **WARNING** tags and placards affixed to hoist.
- Oil the load chain generously over entire length of chain.
- Make sure that load chain is not twisted. If so, untwist load chain before using.
- Make sure fall stop is placed at least 3 feet [91.4 cm] from last chain link on free end.
- Install chain container.
- If furnished, make sure that trolley wheels have proper spacing in relation to beam flange. See appropriate trolley manual for details.
- Check direction of hook travel to make certain that it corresponds to respective control button that is depressed. That is, does hook travel “UP” when UP BUTTON is depressed? If OK, continue. If not, proceed to section 3.3.
- Perform no-load operational checks as described in Section 3.3
- Run test with load as described in Section 3.4.

4.2 Correcting the Direction of Hook Travel



DO NOT change control leads in controllers or control leads at motor relays. **DO NOT** change nameplates on control assemblies. The limit switch (if provided) is wired in series with “UP” control circuit as furnished from factory. Changing control leads or nameplates will prevent the upper safety travel limit switch from functioning properly.

Reversing any two power leads of a three-phase AC motor will reverse the direction of rotation.

- Reverse any two leads of a three-phase power at the main power source or at connections to motor. Do not change internal wiring of hoist.
- Use the phase reverse button when supplied with controller.



4.3 Operational Checks – No Load

- Check hoist motor brake function. Run hoist (if inverted) or empty load block up or down to check that load block does not drift more than 1.0 inch [25mm]. If so, adjust brake as described in Section 6.
- Run hoist (if inverted position) or empty load block (if normal position) down to check that fall stop (located on free end of load chain) makes proper contact with limit switch and that limit switch or slip clutch functions properly. Note – limit switches not provided for inverted position use.
- Run hoist (if inverted) or empty load block (if normal position) up to check that load block makes proper contact with limit switch and that limit switch or slip clutch functions properly. Note – limit switches not provided for inverted position use.
- Run empty load block up and down several times while checking for proper tracking of load chain.

4.4 Operational Checks – With Load

- After completion of no-load operational tests, the user / owner should perform a full load test even though each complete hoist is load tested at factory.
- Lift a near capacity load about one (1) foot [30cm] above floor level. Check that brake holds load. Also, check stopping capability of brake when lifting to a stop and lowering to a stop.
- Move trolley the full length of monorail or crane beam. Check for any binding of trolley wheels on flange and/or interference at splice joints, hanger connections / bolts, etc.
- Check contact with stops. Contact with stops SHALL only be made with trolley bumpers. Stops that are designed to make contact with wheels SHALL NOT be used.