

Installing Programmed Transition Kit in LT Series Transfer Switches (Spec J and Later)

Kit Number	Kit Specifications
300-4965-01	100-260 Amp: 0.1 to 3 Second Delay
300-4965-02	100-260 Amp: 0.1 to 30 Second Delay

These instructions provide the procedure for installing a programmed transition kit in a Spec J (or later) LT transfer switch. Because the transfer switch presents a severe shock hazard, this kit is to be installed by technically qualified personnel only.

⚠WARNING *The transfer switch presents a shock hazard that can cause severe personal injury or death unless all AC power is removed. Before beginning the installation, remove all sources of AC power. If a generator set provides emergency power, move the generator set operation selector switch to Stop, disconnect AC line power, disconnect the battery charger from its AC power source, and disconnect the starting battery (negative [-] lead first).*

1. If a generator set provides Emergency power, turn the operation selector switch to Stop. (The selector switch is located on the generator set control panel on two-wire start systems and inside the cabinet door on three-wire start systems.)

Disconnect all sources of AC power to the transfer switch.

If there is an external battery charger, disconnect it from its AC power source. Then disconnect the set starting battery (negative [-] lead first).

⚠WARNING *Ignition of explosive battery gases can cause severe personal injury. Do not smoke or cause any spark, arc, or flame while servicing batteries.*

2. Open the cabinet door. The program transition modules will be mounted in place of the auxiliary contacts shown in Figure 1. The auxiliary contacts have two sets of normally closed con-

tacts (51-52 and 61-62). The program transition module has one set of normally closed contacts (65-66) and one set of normally open contacts (57-58).

Note: If auxiliary contacts 61 and 62 were in use, check the other auxiliary contacts to see if there is an open set of normally closed contacts that can be used. If no other sets of contacts are available, a new circuit could be designed using the normally open contacts on the program transition module to drive an external relay. Contact a Cummins/Onan dealer or distributor for assistance.

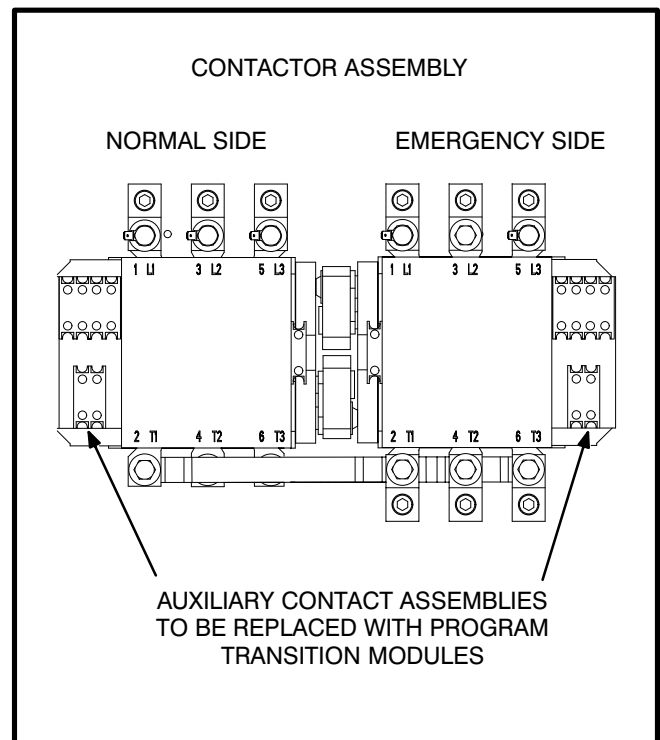


FIGURE 1. AUXILIARY CONTACTS

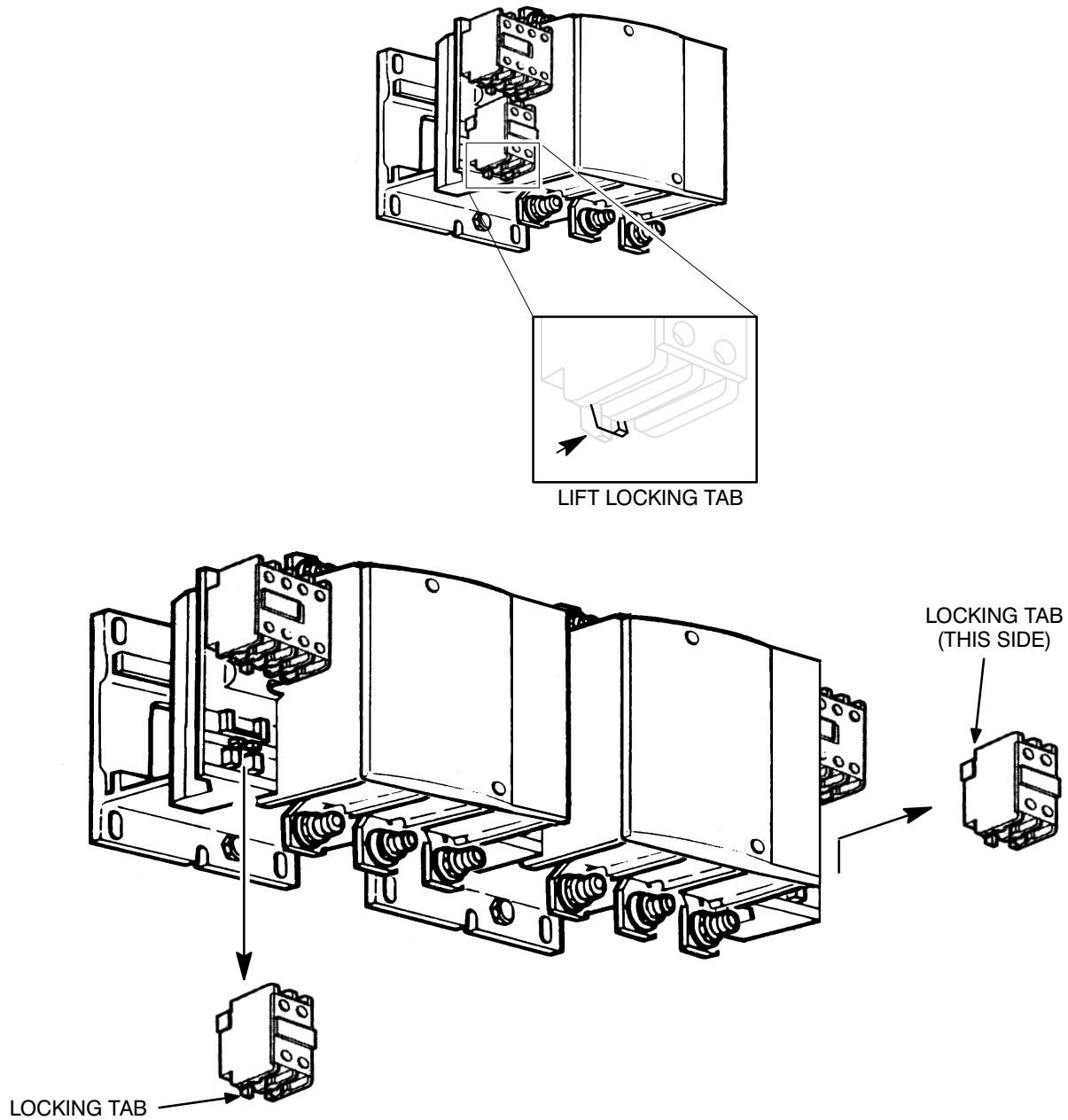


FIGURE 2. CONTACT ASSEMBLY REMOVAL

3. Remove the wiring connections from the auxiliary contact assemblies being replaced (see Figure 1). Make sure leads are clearly marked before removal.
4. Lift the locking tab on the auxiliary contact assemblies, locking tab locations shown in Figure 2. Slide the auxiliary contact assemblies out as shown in Figure 2.

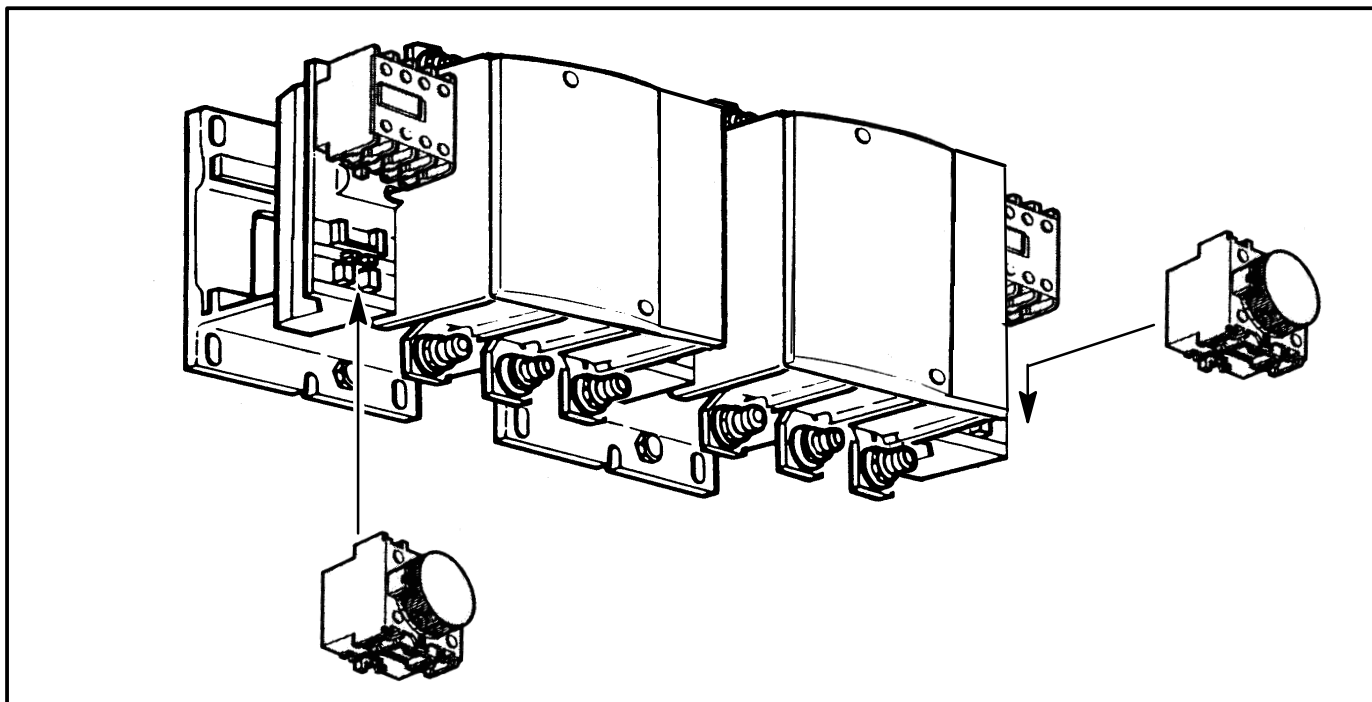


FIGURE 3. PROGRAM TRANSITION MODULE INSTALLATION

5. Install the program transition modules by sliding them into the contactor assembly as shown in Figure 3. Program transition module should lock in place.
6. Connect the leads removed from auxiliary contacts 51 and 52 into program transition module contacts 65 and 66 (refer to page 5 of the wiring diagrams included with the transfer switch).
7. To set the time delay (Figure 4), rotate the dial to align the desired time setting on the dial with the alignment mark on the timer. The length of time that the transfer switch is in the mid-position can be adjusted from 0.1 to 3 seconds or 0.1 to 30 seconds, depending on the timer option. Close and lock the cabinet door.
8. Connect the generator set starting battery (negative [-] lead last). If applicable, connect the battery charger to its AC power source.

⚠WARNING *Ignition of explosive battery gases can cause severe personal injury. Do not smoke or cause any spark or flame while servicing batteries.*

9. Connect AC line power to the transfer switch. Place the generator set operation selector switch in the Auto (3-wire start) or Remote (2-wire start) position.
10. Check the system for proper operation as described in the installation manual.

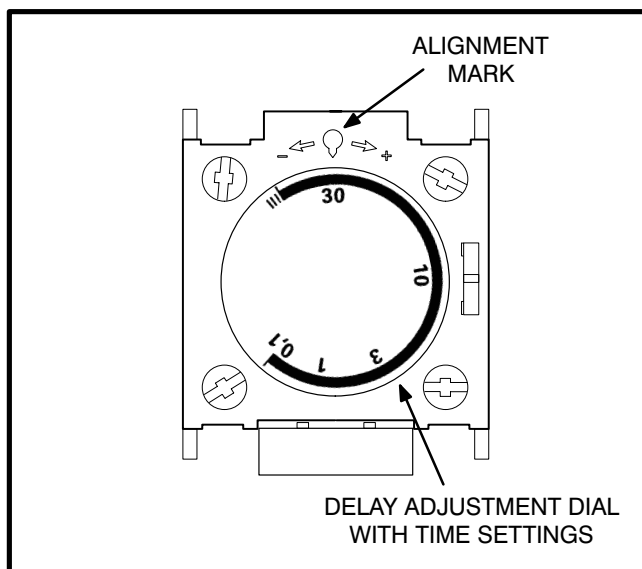


FIGURE 4. PROGRAM TRANSITION MODULE