

# TV Lift Mechanism

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## TV LIFT MECHANISM

A 12 Volt DC lift control module powers a 120 Volt AC motor to open and close the mechanism. An ignition lockout signal prevents the mechanism from opening while in transit. The TV plugs into the lift control module and automatically turns off when the mechanism closes.

### (Figure 1)

#### Adjustment:

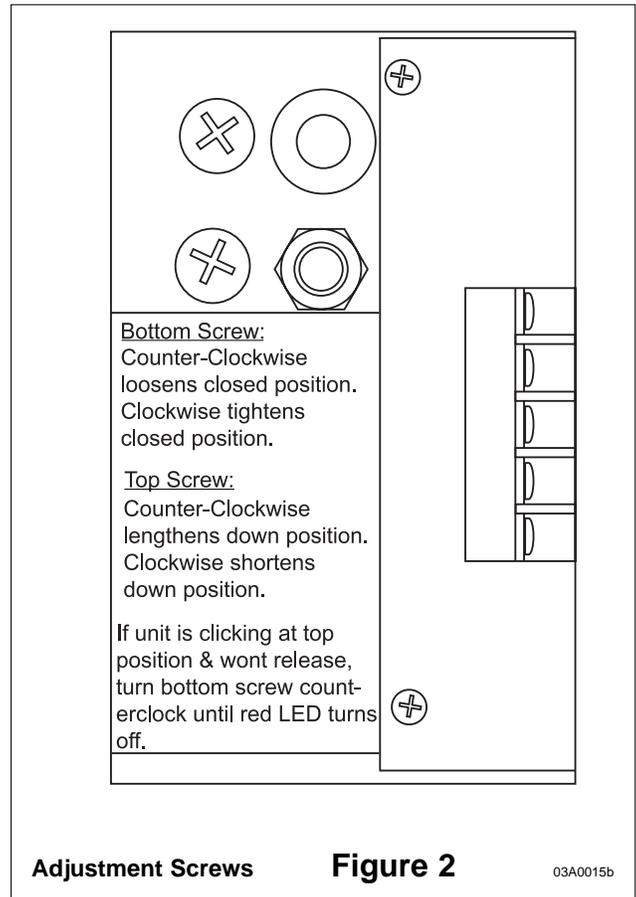
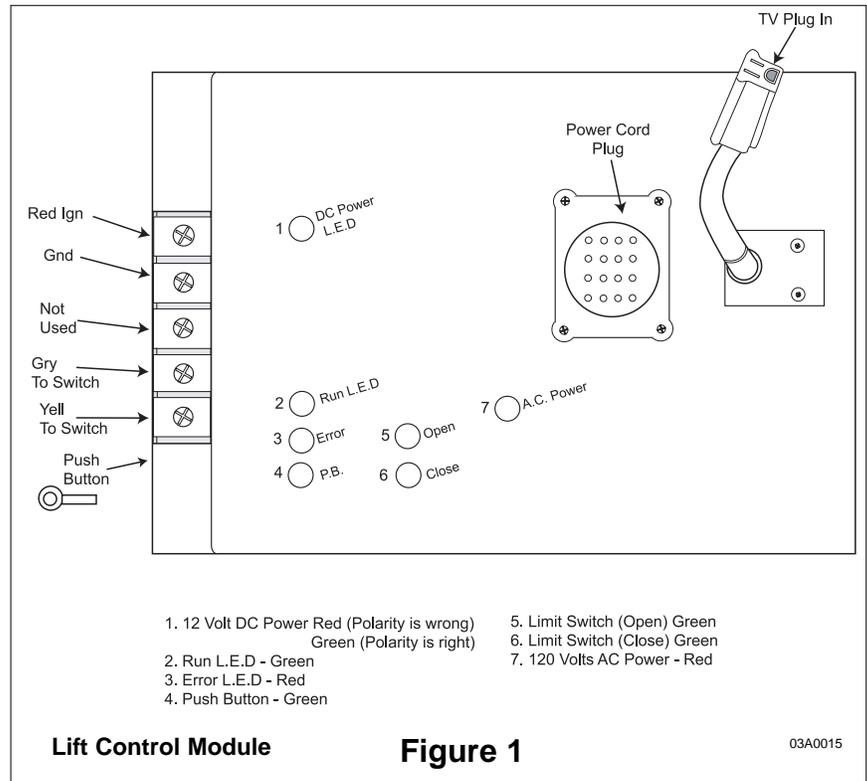
Open and closed positions, as well as lateral positions are adjustable. Adjust the mechanism if it is not flush with the surround when closed or not fully opening. A loud clicking is made if the mechanism is closing too tight. Open and close set points are made by adjustment screws located on the end of the lift control module.

(Figure 2) Open (lower) mechanism and remove roadside inspection panel to access adjustment screws.

- **Close Adj.** - Clockwise adjustment to the bottom screw will decrease the amount the mechanism will close. Counterclockwise adjustment will increase the amount the mechanism closes. Adjust the mechanism to close flush and firm. A loud clicking noise indicates the mechanism is closing too tightly.

#### NOTE:

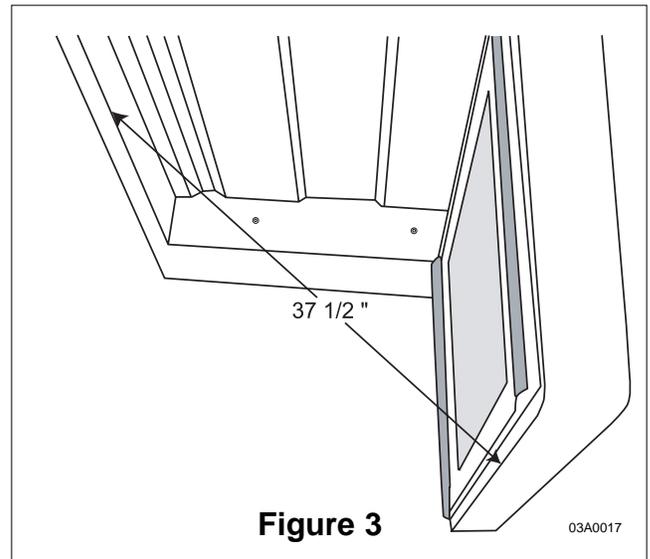
**Pushing the button twice will reverse direction of travel.**



- **Open Adj.** - Clockwise adjustment to the top screw will decrease the amount the mechanism will open. Counterclockwise adjustment will increase the amount the mechanism opens. Adjust open position to specification (**Figure 3**).

- **Lateral Adj.** - Loosen Allen screws at bearings. Move mechanism left or right to center mechanism in opening (**Figure 4**).

**NOTE:**  
Do not move lift control module after adjustment.



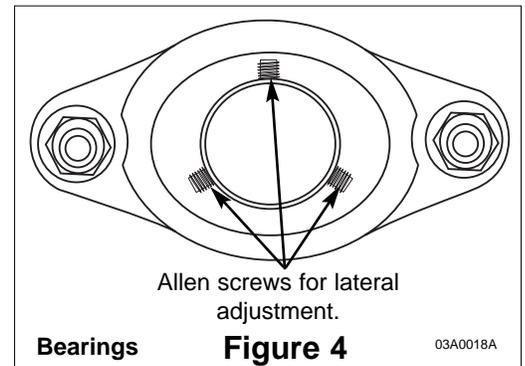
**Figure 3**

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It is recommended to replace the lift control box if the box does not energize the TV plug or respond to adjustment.

**Disassembly (Figure 5) :**

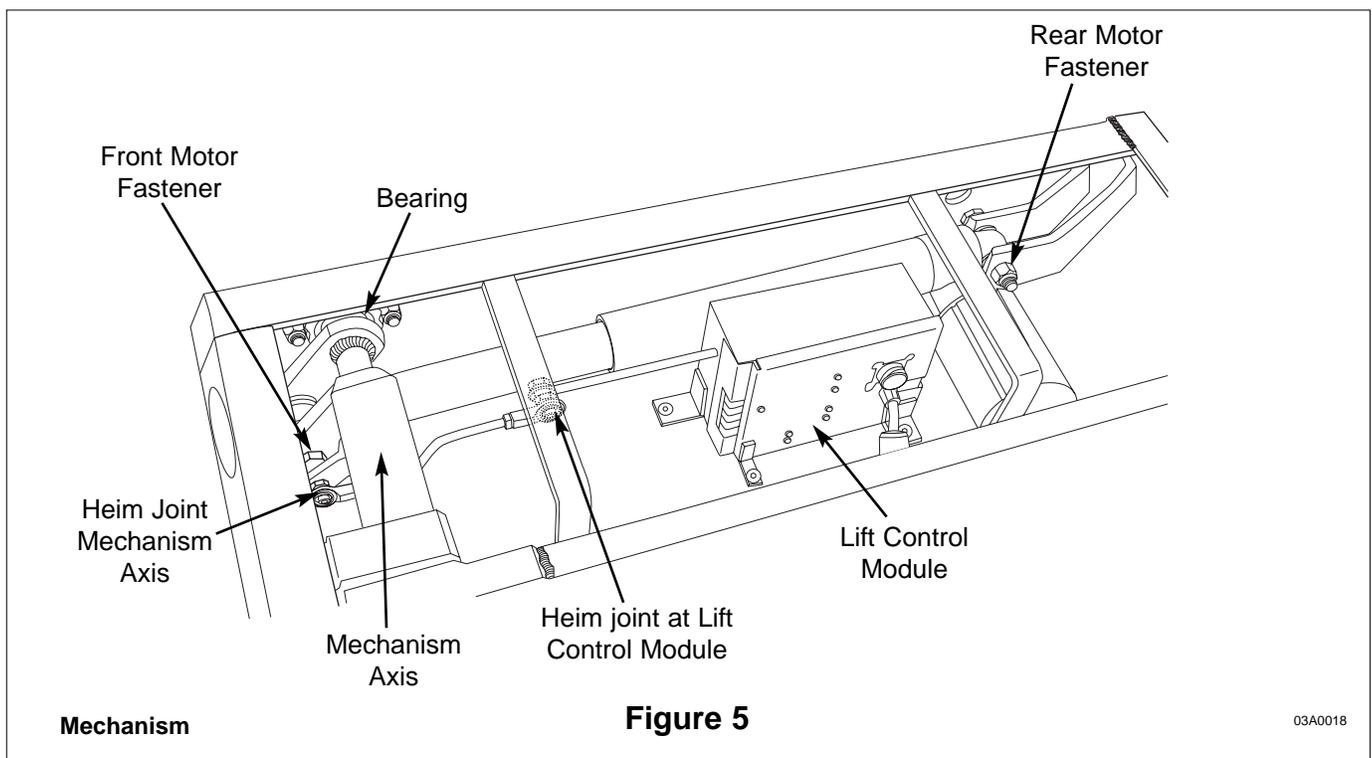
1. Turn off interior house 12 Volt DC power.
2. Turn off 120 Volt AC power.
3. Remove speakers from decorative surround.
4. Remove fasteners securing surround to ceiling.
5. Remove motor and lift control access panel.
6. Disconnect Heim joint at lift control module.
7. Remove screws securing lift control module.
8. At lift control, disconnect DC wiring. Unplug TV and Amp connector for AC motor.



**Bearings**

**Figure 4**

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**Mechanism**

**Figure 5**

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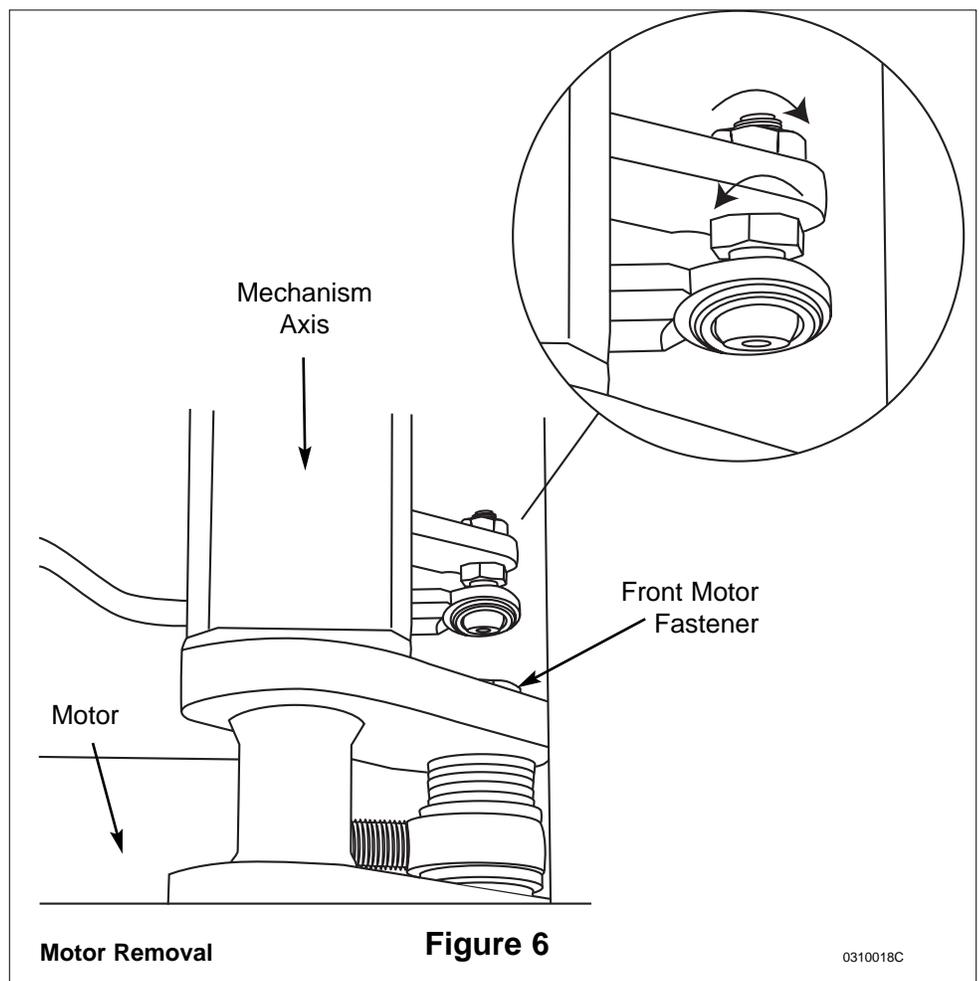
### Assembly:

1. Hookup related AC and DC wiring.
2. Secure lift control box to frame.
3. Connect Heim joint.
4. Turn on 12 Volt DC interior house power and 120 Volt AC power.
5. Adjust lift control module.
6. Install motor and lift control access panels.
7. Install decorative surround to ceiling.
8. Install speakers.

### Motor Removal

#### Disassembly:

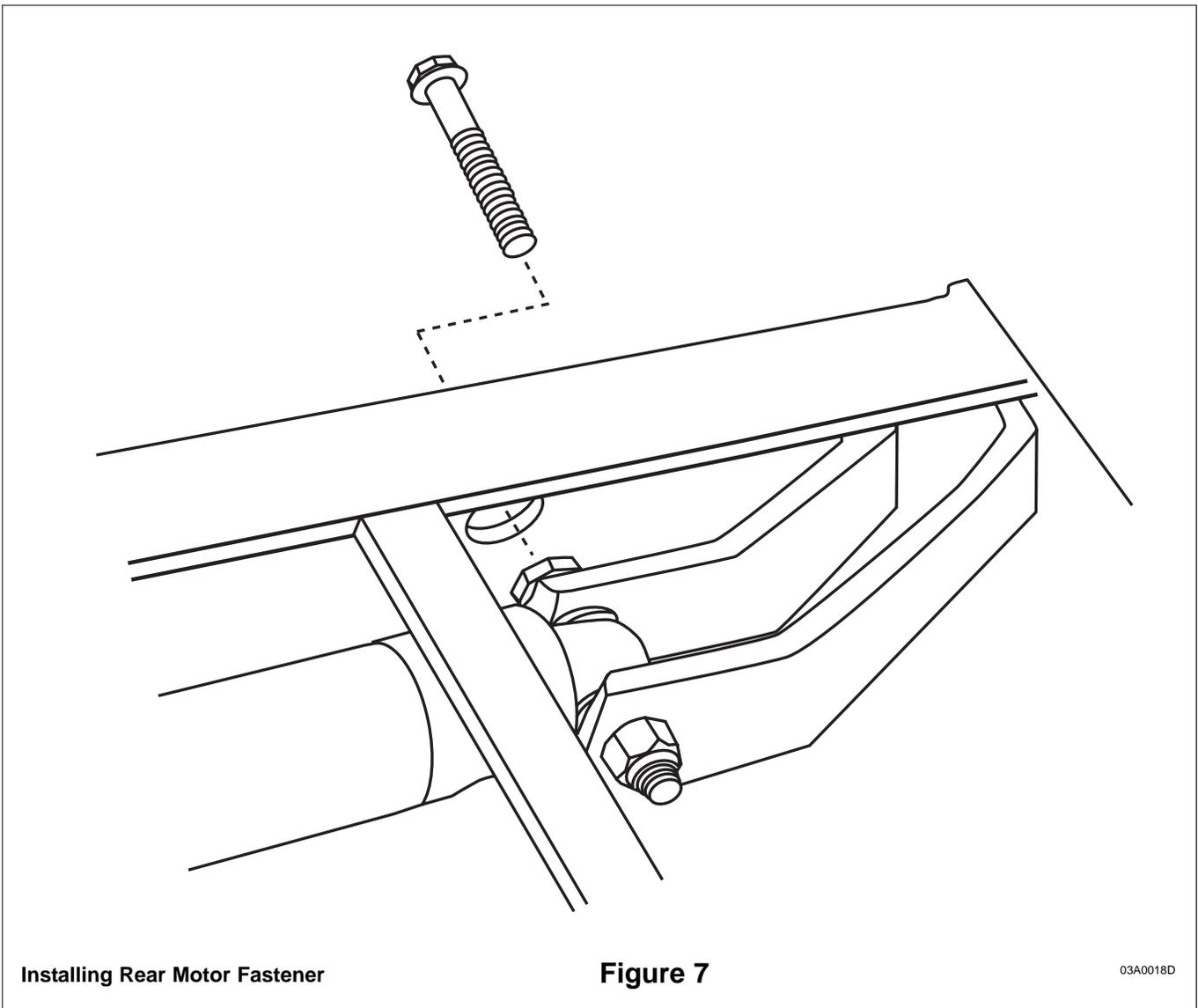
1. Turn off interior house 12 Volt DC power.
2. Turn off 120 Volt AC power.
3. Remove speakers from decorative surround.
4. Remove fasteners securing surround to ceiling.
5. Remove motor and lift control access panels.
6. Disconnect Heim joint at mechanism axis (**Figure 6**).
7. Remove screws securing lift control module.
8. At lift control module, disconnect DC wiring. Unplug TV and Amp connector for AC motor.
9. Carefully remove front motor fastener allowing assembly to swing open.

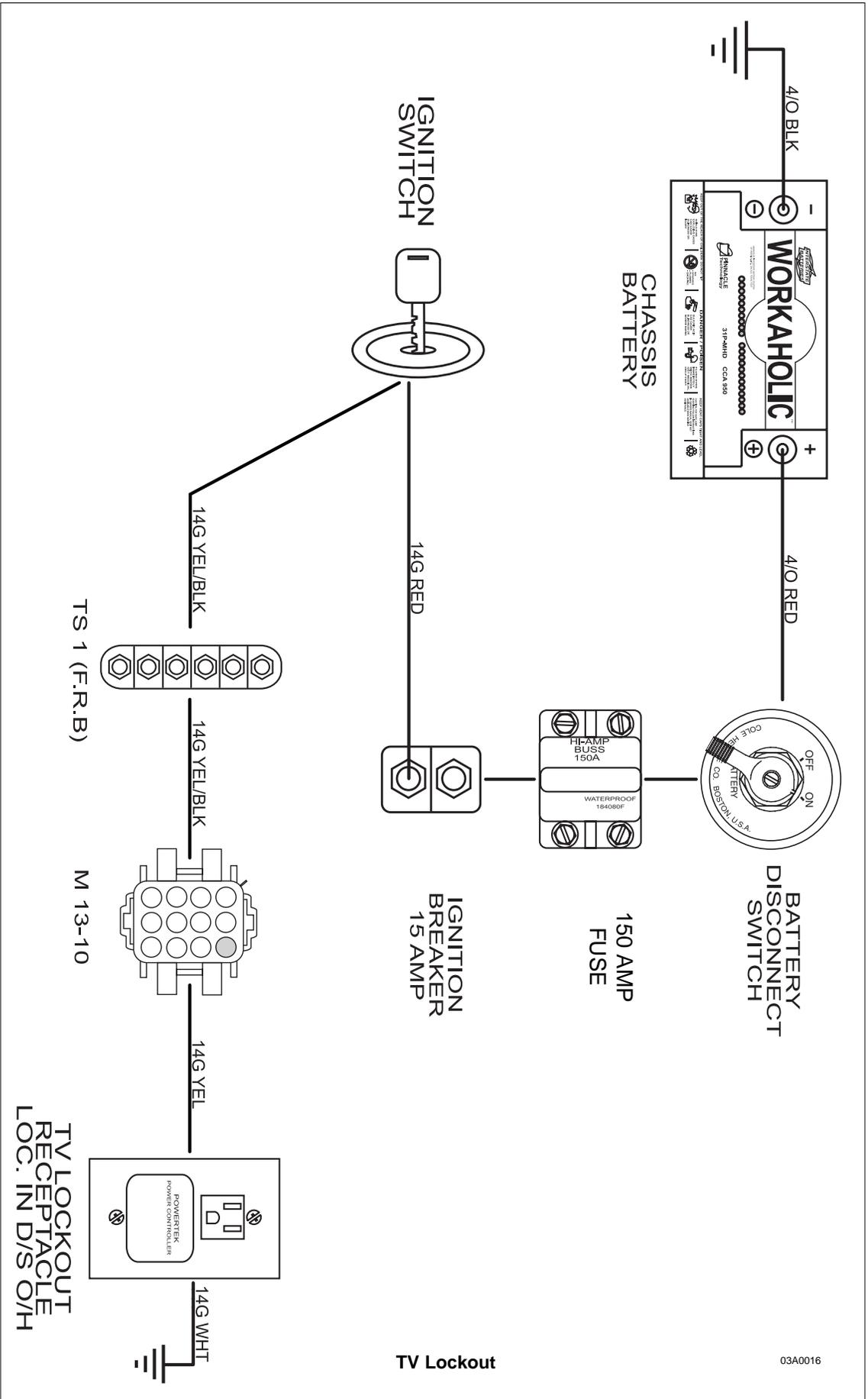


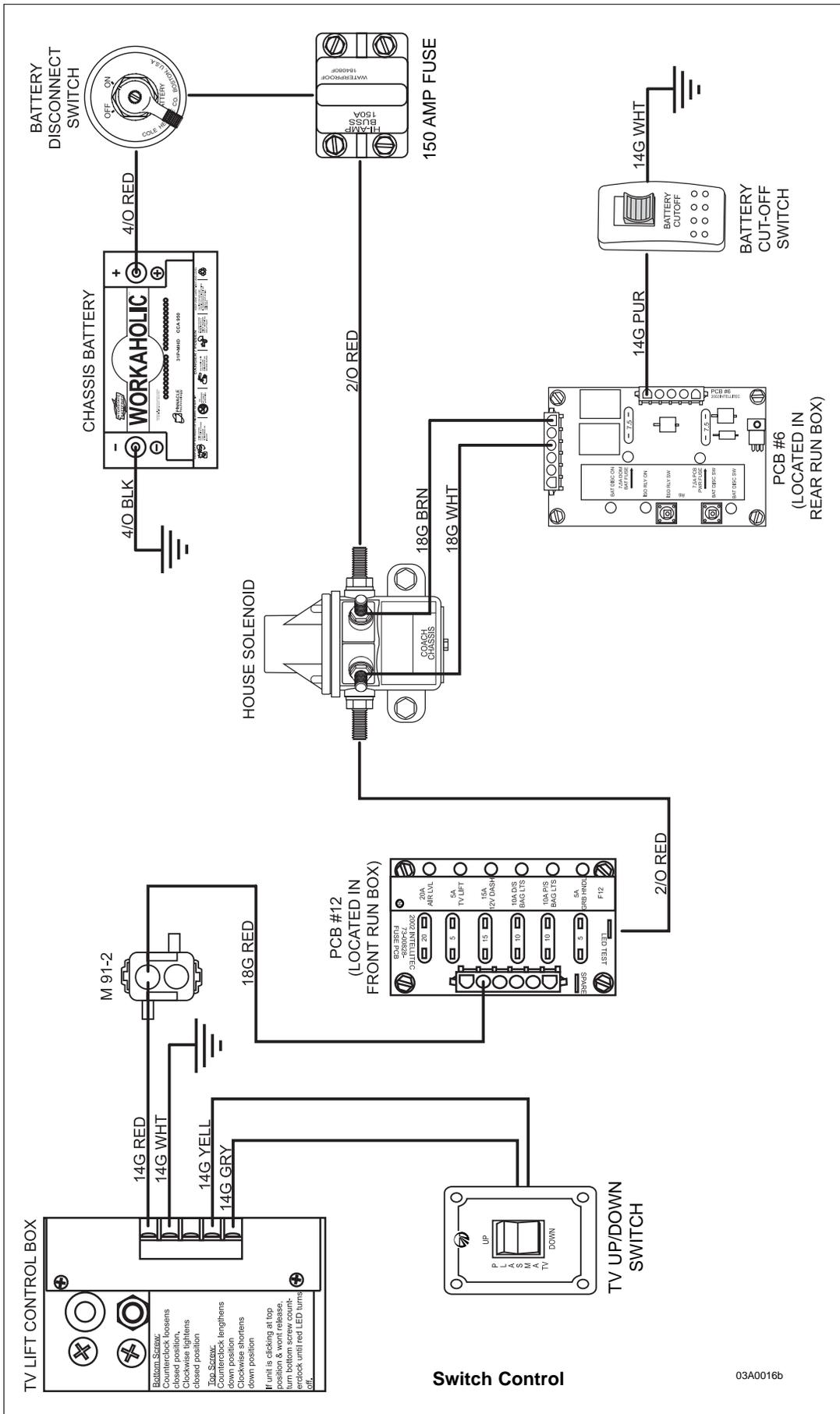
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10. Remove rear motor fastener. Guide end of motor through access hole. Lower front of motor and remove (**Figure 7**).
  11. Cut 120 Volt AC motor lead approximately 8" from Amp connector.

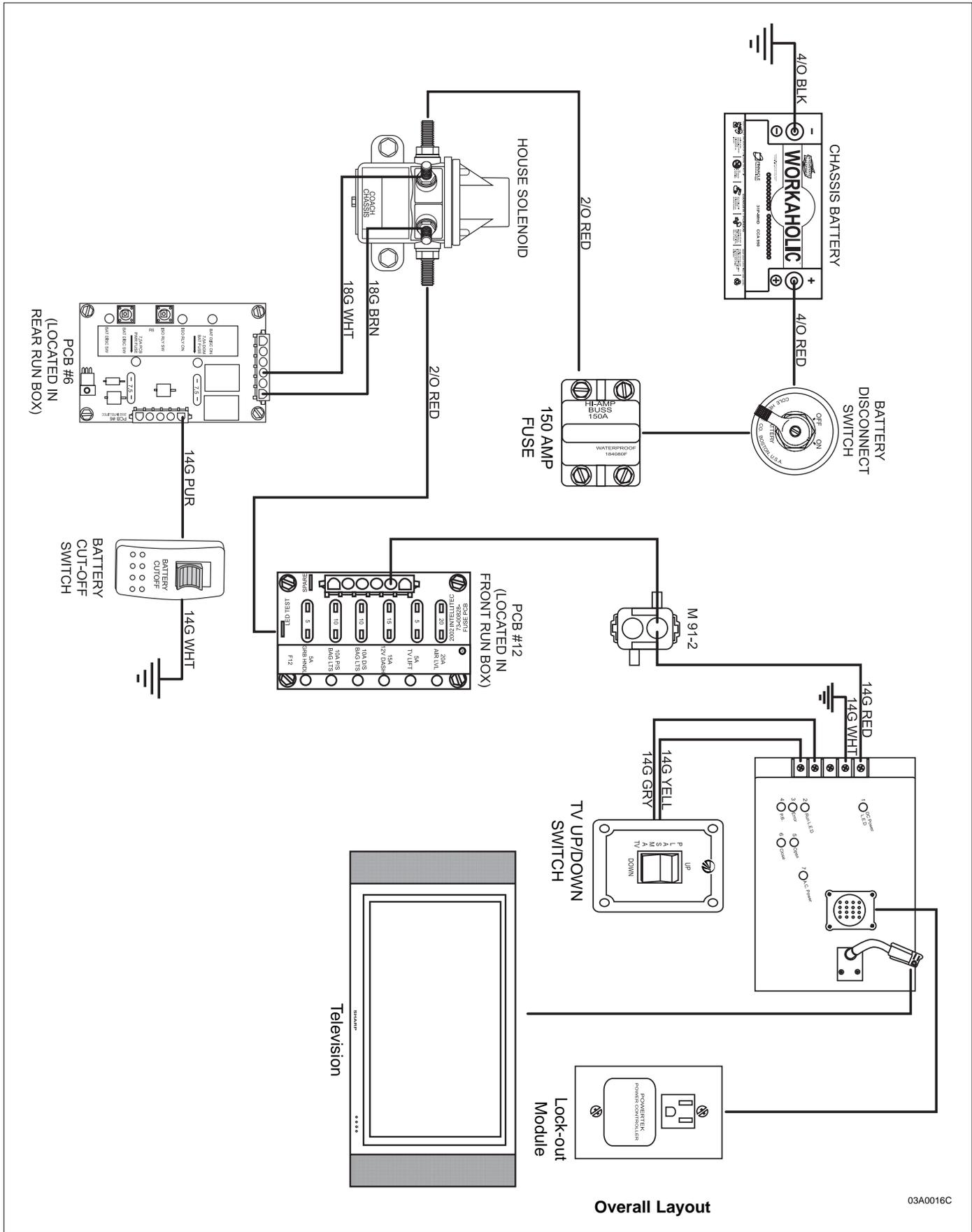
**Assembly:**

1. Strip wires and attach motor lead to Amp connector.
2. Install motor.
3. Connect DC wiring. Plug TV and Amp connector to lift control module.
4. Install control module.
5. Turn on 12 Volt DC interior house power and 120 Volt AC power.
6. Adjust lift control module.
7. Install motor and lift control access panels.
8. Install decorative surround to ceiling.
9. Install speakers.









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