

# SERVICE REPAIR PROCEDURE

## OVERHEAD TV LIFT

2006 TO CURRENT

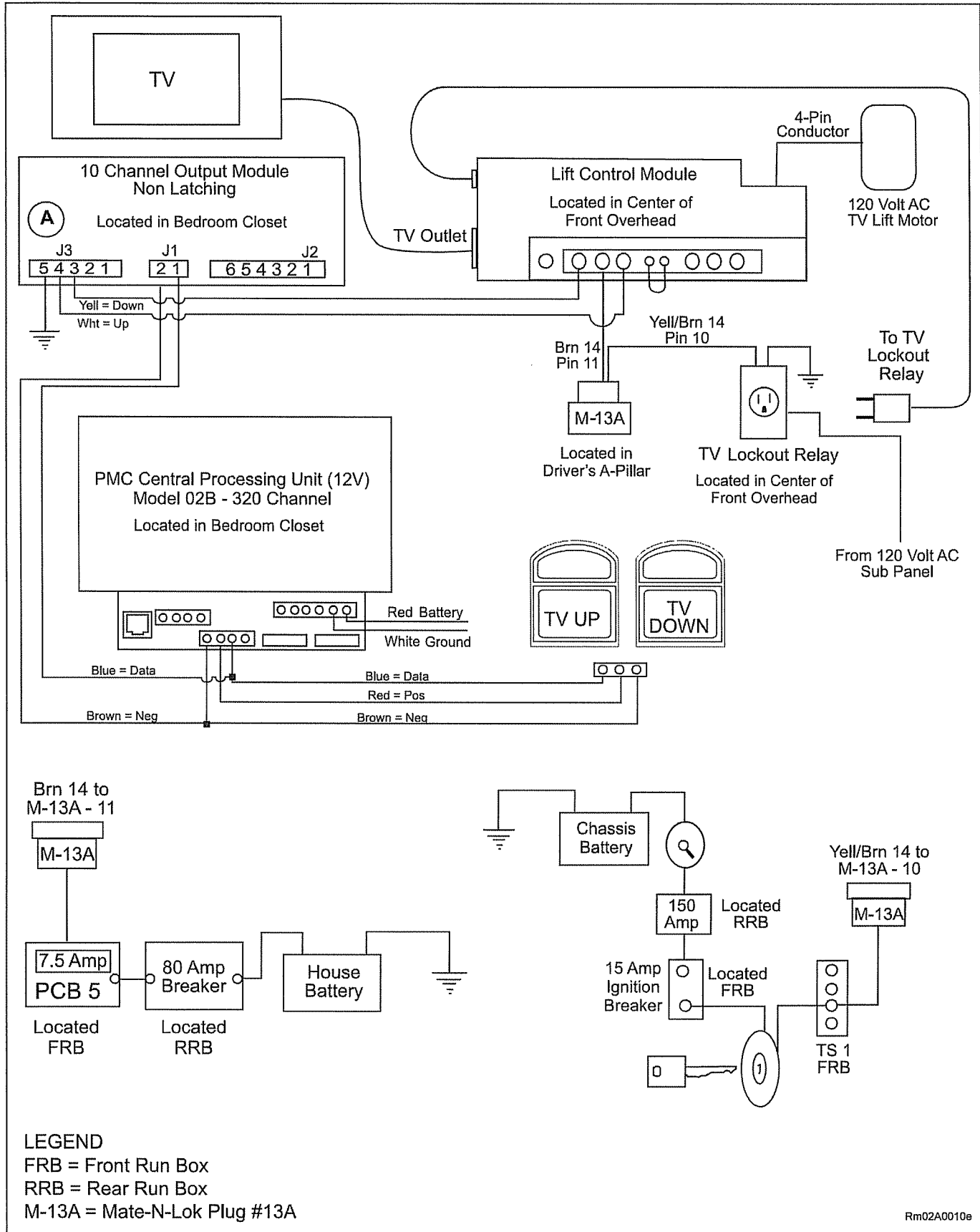
SIGNATURE SERIES, DYNASTY®,  
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## OVERHEAD TV LIFT

The TV Lift uses a 120 Volt AC motor to move the mechanism up and down. A lift control module receives input commands from the Multiplex switching system (for more information on Multiplex switching, see Multiplex SRP). The lift control module controls action of the 120 Volt AC motor. Up and down stop points are controlled by limit switches.

### Synopsis

Interior house power must be on. AC power must be supplied by shore power, the generator or the inverter. Ignition key must be off so the TV lockout AC receptacle will function. An **Up** or **Down** command is given from the Multiplex switch. The Multiplex CPU interprets the command and sends a control signal to Multiplex Module A located in bedroom closet. The appropriate DC circuit is activated on Module A, sending a DC electrical signal to the corresponding terminal on the lift control module located in front overhead. Lift control module determines action of AC lift motor. Limit switch stops lift motor at end of travel.

### Diagnostic

#### If the TV will not move up/down:

- ◆ Interior house power on?
- ◆ AC power supplied by shore power, generator or inverter?
- ◆ Ignition key in off position?

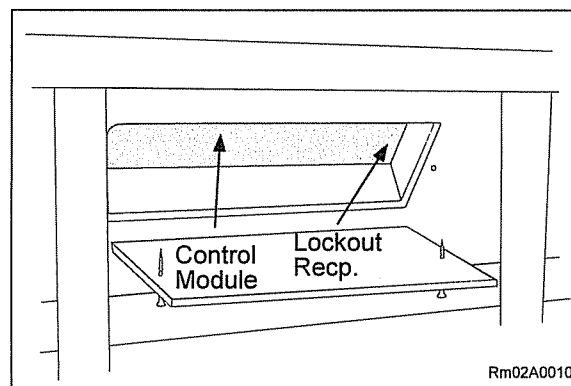
#### If the TV still does not move up/down:

- ◆ Fuses on Multiplex Module A plug J3. Circuit 3 is down (white wire) and circuit 4 is up (yellow wire).

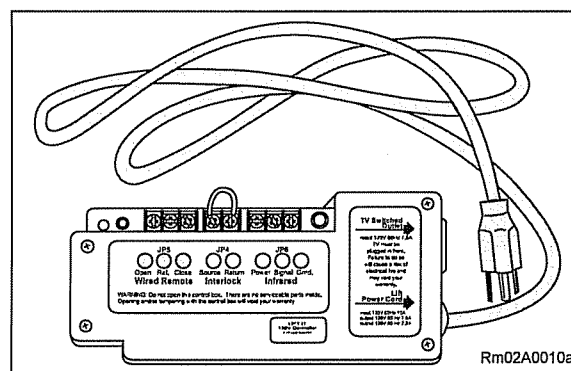
If the fuses test good, then determine if AC and DC power is reaching the Lift Control Module. If the Lift Control Module is receiving DC power to the respective terminals then the Control Module may be defective.

### Control Module Replacement

If both AC and DC are present at the control module, the control module may be defective. On motorhomes built prior to 5798 the module is located on TV framework. On motorhomes numbered 5798 and after, the module is mounted remotely in the front overhead. Access to the control module prior to number 5798 requires removing the outer TV lift trim. Remote mounted control modules are located in the center section of the front overhead through an access panel, or if no access panel exists, the decorative trim of the front overhead is held into place with clips. Remove both side overhead doors for decorative trim clearance. Use 4" putty knife to remove decorative trim. Next, remove the module.



Control Module Access: Located on center front overhead.



Control Module: Located in center front overhead. Remove cover screws to access the 4-Pin Plug.

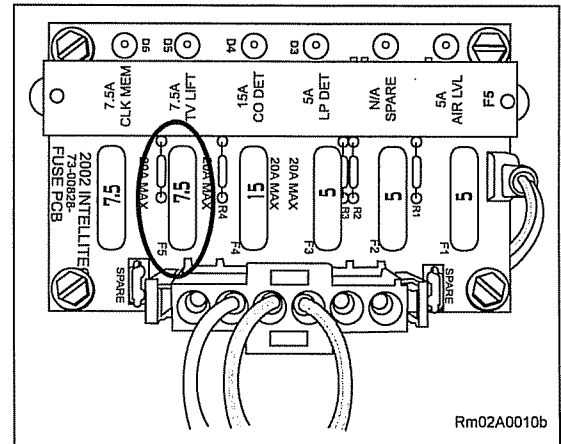
## Disassembly:

1. Unplug AC cords from TV to module and module to TV lockout.
2. Note respective locations on the Control Module of white, yellow and brown wires hooked to connection JP5 Wired Remote then remove.

## CAUTION:

**The brown wire is constantly energized from house power. Take necessary precautions such as taping end of brown wire to prevent short circuit, or remove 7.5 Amp fuse on PCB 5 in front run box.**

3. Unscrew fasteners securing cover to module. Remove cover, and then remove 4-pin lift motor cable connector from module.



Printed Circuit Board 5: Located in Front Run Box.

## Assembly:

1. Hook 4-pin connector to new module.
2. Install white, yellow and brown wires to respective terminals at connection JP5 Wired Remote.
3. Install 4-pin lift motor cable to new control module and install module cover.
4. Plug in TV cord to control module. Plug in module AC cord to external AC source (such as extension cord).

## Test

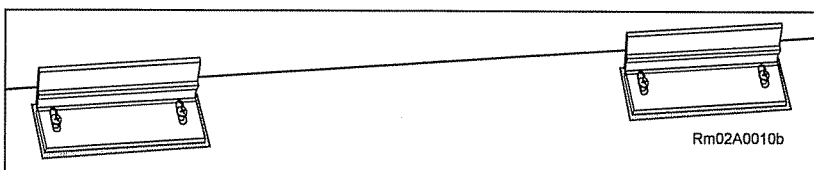
Attempt to momentarily operate TV lift mechanism using multiplex switches. If lift mechanism operates, secure control module in overhead. Hook control module AC cord to TV lockout. If TV lift does not operate, problem is with TV lockout.

Secure new module and cords/wiring to prevent chaffing. Check up and down limit switch set points. Assemble trim, doors, access panels and other hardware that was removed. Test assembly for proper operation once assembly is complete.

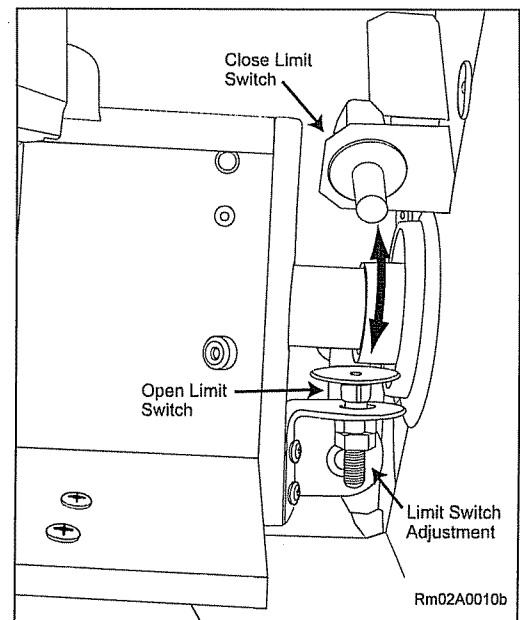
## Limit Switch Adjustments

Limit switches control up and down set points. Adjust the down limit switch to the TV just past 90° vertical. This provides a more direct line of sight for viewing without contacting the front overhead cabinet or vinyl trim surround.

Two adjustment points set the up position. Inside the frame are angled mechanical stop points that set vinyl trim edges of TV surround and vinyl backer flush against each other when the mechanism is up. Adjust up limit switch set point so mechanism closes firmly against stops, but not so tightly that the AC lift motor binds or loads. The mechanism will be noisy and vibrate during transit if set too loose.



Mechanical Stops



Close Limit Switch