

## \*\*\* BULLETIN \*\*\*

## TECHNICAL SERVICE

DATE: APRIL 21, 1987

SUBJECTS: A) Addition of valve warm-up cycle  
 B) Change over of remote control electrical cable

UNITS AFFECTED: All 334 Car Hauler trailers having a 2 position remote power switch.

## PARTS SUPPLIED IN KIT:

QTY	PART NUMBER	DESCRIPTION
1	1-879-010007	WIRE, 14 AWG YELLOW
8	105-0214	TY-WRAPS
2	106-0081	CORD CONNECTOR
4	107-0816	RIVET
5	239-9076-7	SUPPORT CLAMP, 7/8 ID
1	3-156-010010	CABLE, CONTROL
1	3-765-010006	SWITCH



THIS SAFETY ALERT SYMBOL INDICATED IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

## MODIFICATION PROCEDURE:

## A. ADDITION OF VALVE WARM-UP CYCLE

1. Remove the relay compartment access cover and hand control back panel.
2. Find the remote control "ON" - "OFF" switch in the valve compartment. Remove this switch. (See fig. 1)
3. Install the replacement switch (p/n 3-765-010006) which is supplied with this retrofit kit. Position the switch so the toggle flips UP and DOWN. (See fig. 1)

4. NOTE: the fuse wiring changes ! Remove the relay wire from the fuse, leaving the relay end of the wire attached. Attach to the fuse the blue wire which goes to the 7 conductor cable. (See fig. 2, and fig. 3)
5. Wire the switch as follows: (Reference fig 3)
  - .1 BLUE WIRE from the fuse holder: attach to the center switch terminal.
  - .2 MASTER RELAY WIRE: attach to the TOP switch terminal.
  - .3 YELLOW KIT WIRE: instal from the bottom switch terminal to the "UPPER FRONT WINCH IN" relay, terminal #6. This same terminal also contains the yellow wire from the 7 conductor cable.
6. Ty-wrap loose wires as needed.

#### B. REMOTE CONTROL ELECTRICAL CABLE REPLACEMENT

1. Disconnect the original electrical cable from the hand control and the relays.
2. Remove the original cable connectors. One is located in the wall between the relay panel and the valve compartment. The other is on the hand control.
3. Drill out rivets holding cable clamps using a 3/16 drill.
4. Remove the original cable from the relay compartment.
5. Install the new cable connectors in the same location as the original connectors. One in the valve compartment and the other in the hand control unit.
6. Install the stripped, bare wire end of the new cable through the valve compartment cable connector. Attach the cable wires to the proper relays, matching stamped wire numbers with those in Figure 4.

**NOTE: THE WIRES HAVE A DASH (-) AFTER THE STAMPED NUMBER TO HELP IDENTIFY THE #6 AND THE #9 WIRES.**

7. Ty-wrap as the original cable was. Provide adequate cable slack in the relay compartment, and then tighten cable seal nut of the connector.
8. Secure the new cable in the storage compartment using new cable clamps.
9. Insert the forked terminal end of the new cable through the cable connector of the hand control. Wire the cable to the hand control switches per Figure 5 matching stamped wire numbers with the proper switch terminal. Allow sufficient cable slack inside the control and tighten cable connector.

## OPERATIONAL CHECK



# CAUTION

WHEN SWITCHING THE POWER SWITCH FROM "OFF" TO "WARM-UP", BE ALERT FOR ANY HYDRAULIC COMPONENT OPERATION. IF OPERATION SHOULD OCCUR, IMMEDIATELY FLIP THE POWER SWITCH TO THE "OFF" (CENTER) POSITION. REPAIR OR REPLACE THE STICKING SOLENOID BEFORE SWITCHING THE REMOTE POWER SWITCH TO "ON" OR "WARM-UP".



# DANGER

STAY CLEAR OF THE TRAILER WHEN OPERATING THE HYDRAULICS. SERIOUS PERSONAL INJURY OR DEATH WILL RESULT IF CAUGHT BETWEEN MOVING PARTS.

**SET-UP:** Hook trailer up to a tractor.  
Attach all electrical and hydraulic lines.  
Start tractor and engage the hydraulic pump.

### TESTING:

1. TEST: With the remote power switch in the mid (OFF) position, depress any hand control button (except winch).

RESULT: No operation is proper.

If reaction occurs, check switch wiring.

2. TEST: With the remote power switch in the UP (WARM-UP) position, depress any hand control button (except winch).

RESULT: No functioning should occur.  
Oil should be heard passing through solenoid valves.

If depressing a button operates a component, check switch wiring.

3. TEST: With the remote power switch in the DOWN (ON) position, depress any hand control button (except winch).

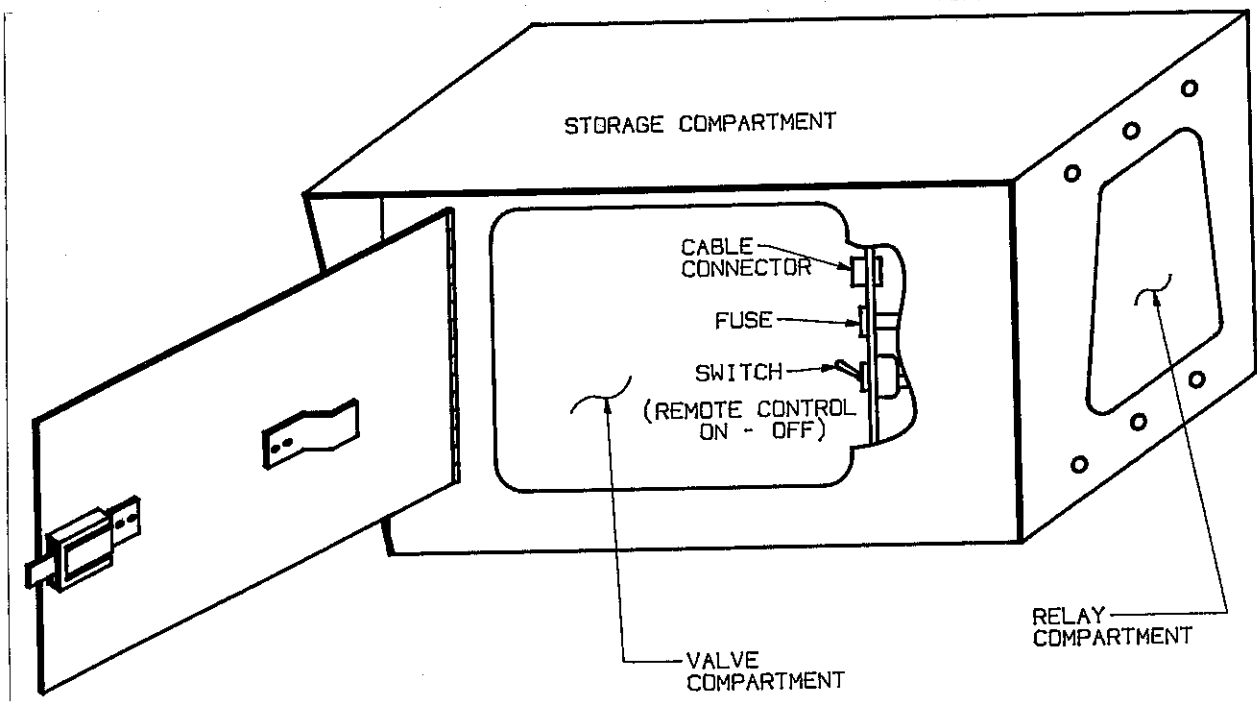
RESULT: Component should function.

If depressing a button does not operate a component, check switch wiring, voltage to switch, and for opens in wiring.

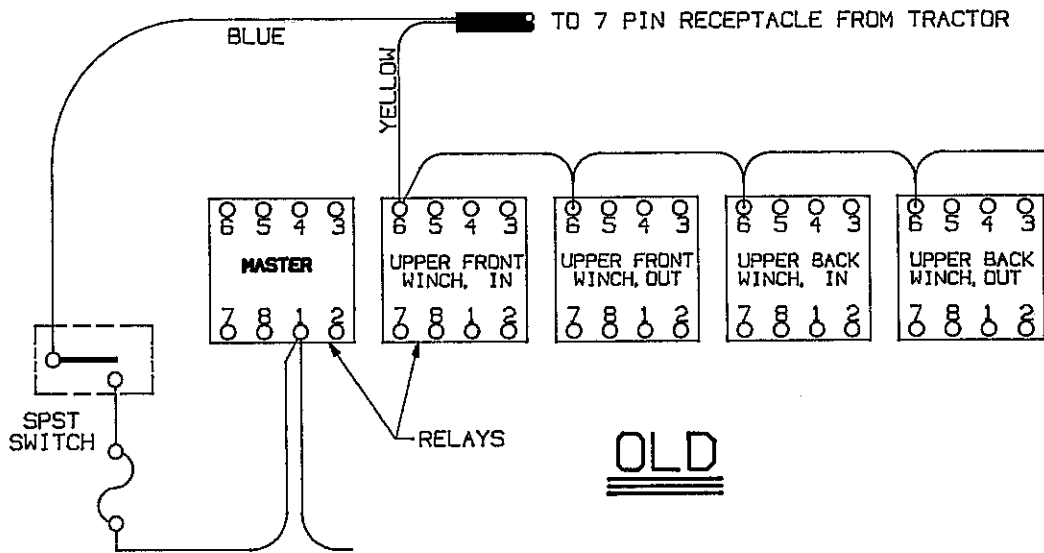
4. TEST all functions in all 3 switch positions.

**DO NOT PUT UNIT INTO OPERATION IF ANY OF THE ABOVE TESTS FAIL !**

**FIGURE LISTING**

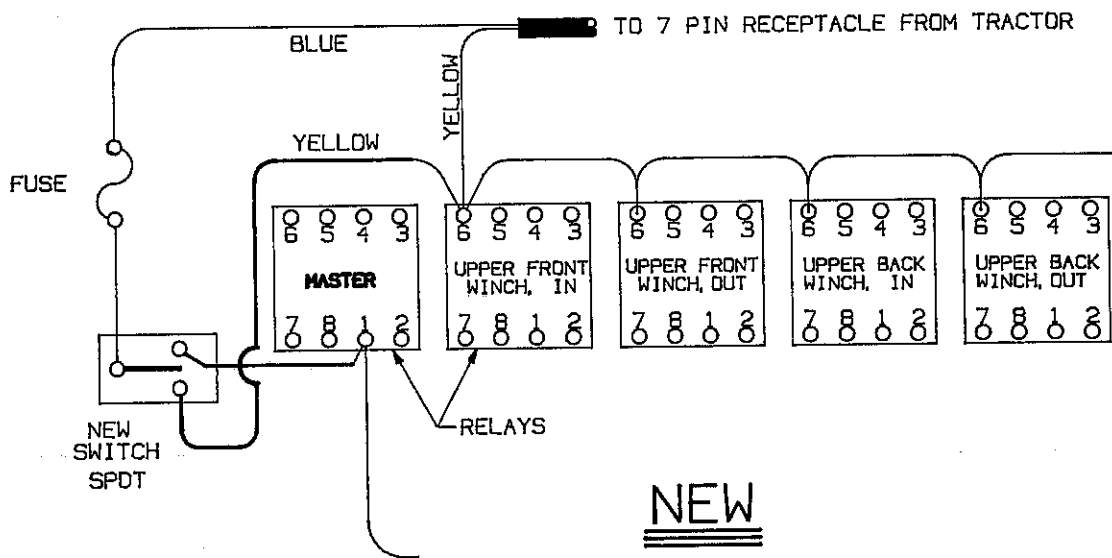


**Figure 1**



ORIGINAL SWITCH WIRING SCHEMATIC  
(PARTIAL SCHEMATIC)

Figure 2



REVISED SWITCH WIRING SCHEMATIC  
(PARTIAL SCHEMATIC)

Figure 3

RELAY REWIRING DIAGRAM

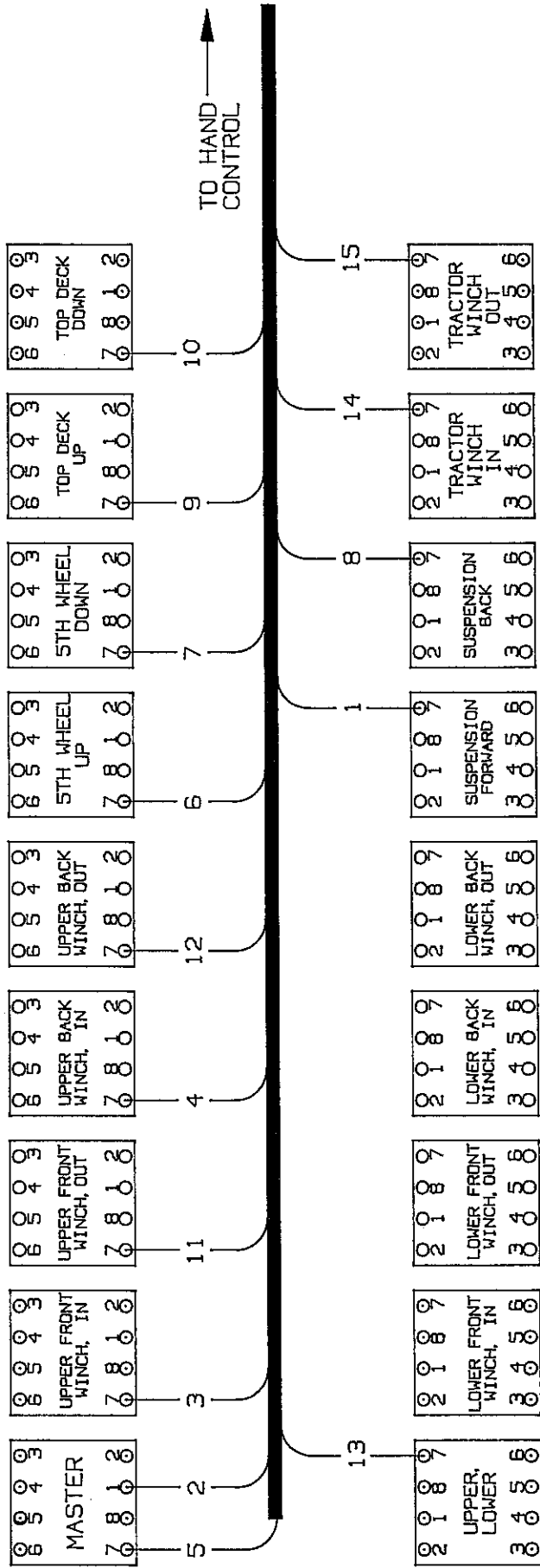


Figure 4

HAND CONTROL REWIRING DIAGRAM

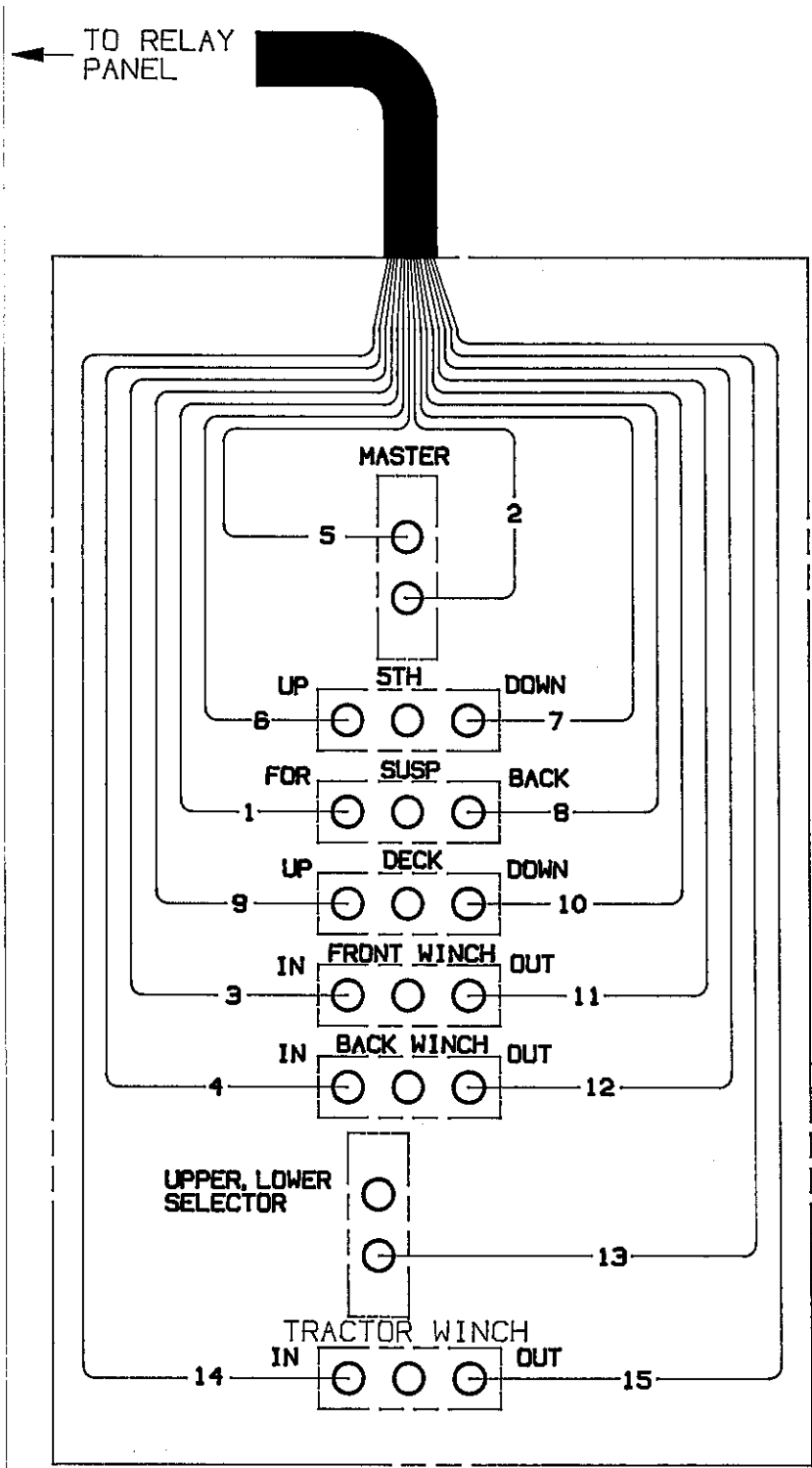


Figure 5