

# Starcraft Lift System 1982 & Older

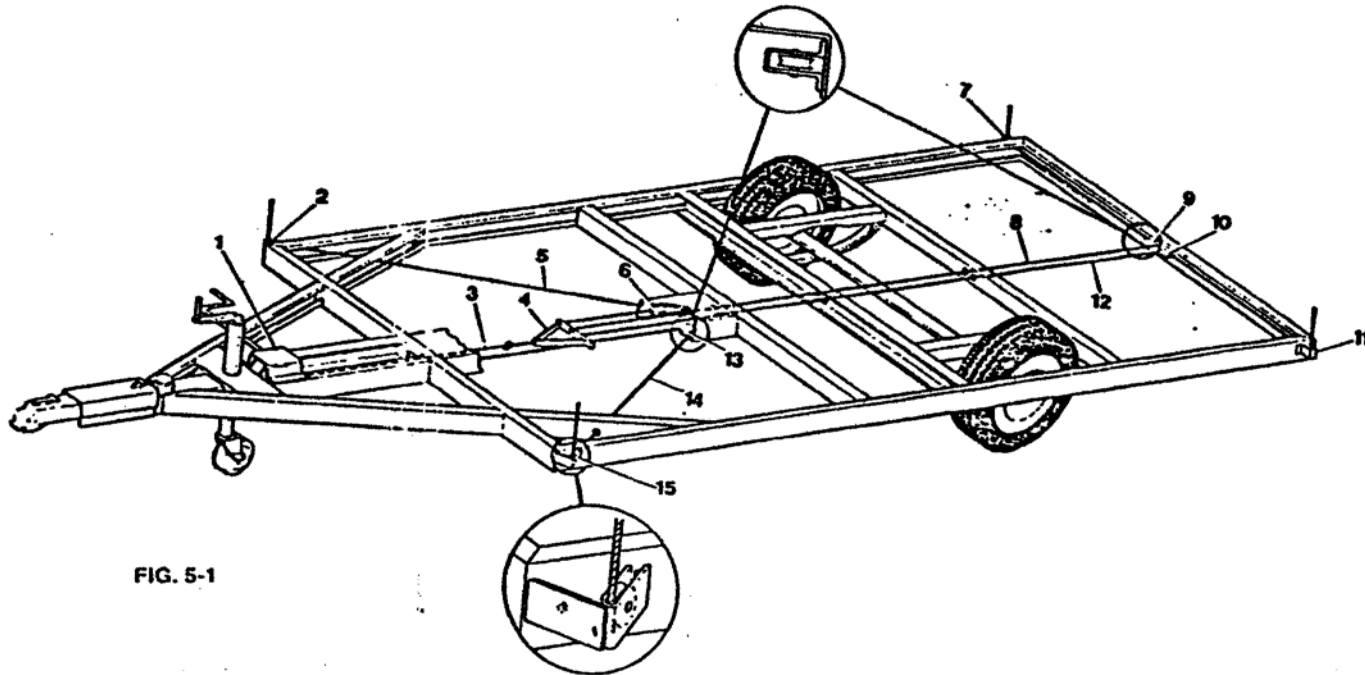


FIG. 5-1

## GENERAL INFORMATION

**IMPORTANT:** Maintenance of lifters and lifter cable assemblies requires a good working knowledge of lifter system design. Please familiarize yourself with the following general information.

### 3 CABLE TYPES

Main Cable (3) originates at winch assembly (1) and is anchored to yoke (4). Outside Cables originate at yoke and are anchored to center channel of lifter assembly. Inside Cables are confined to the interior of lifter channels. See Figure 5-1.

**NOTE:** To raise roof to approximately fully extended height, crank winch until rear of yellow mark on drum is in line with yellow mark on winch housing, after locking bar is in lock position.

**CAUTION:** Do not crank winch beyond yellow mark on side of winch after safety lock rod is in place.

Do not force roof up. Do not attempt to raise roof with boat or other objects on top. Be sure all corner locks are completely disengaged before raising roof.

**NOTE:** Right side is door side.

Left Front Lifter Outside Cable (14) is secured with eyebolt to yoke (4). Cable runs from yoke to left center pulley (13) through pulley to left front pulley (15) and up into lifter assembly.

Right Front Lifter Outside Cable (5) is secured with eyebolt to yoke (4). Cable (5) runs from yoke to right center pulley (6), through pulley to right front pulley (2) and up into lifter assembly.

Left Rear Lifter Outside Cable (12) is secured with eyebolt to yoke (4). Cable (12) runs from yoke to left rear center pulley (10), through pulley to left rear pulley (11) and up into lifter assembly.

Right Rear Lifter Outside Cable (8) is secured with eyebolt to yoke (4). Cable (8) runs from yoke to right rear center pulley (9) through pulley to right rear pulley (7) and up into lifter assembly.

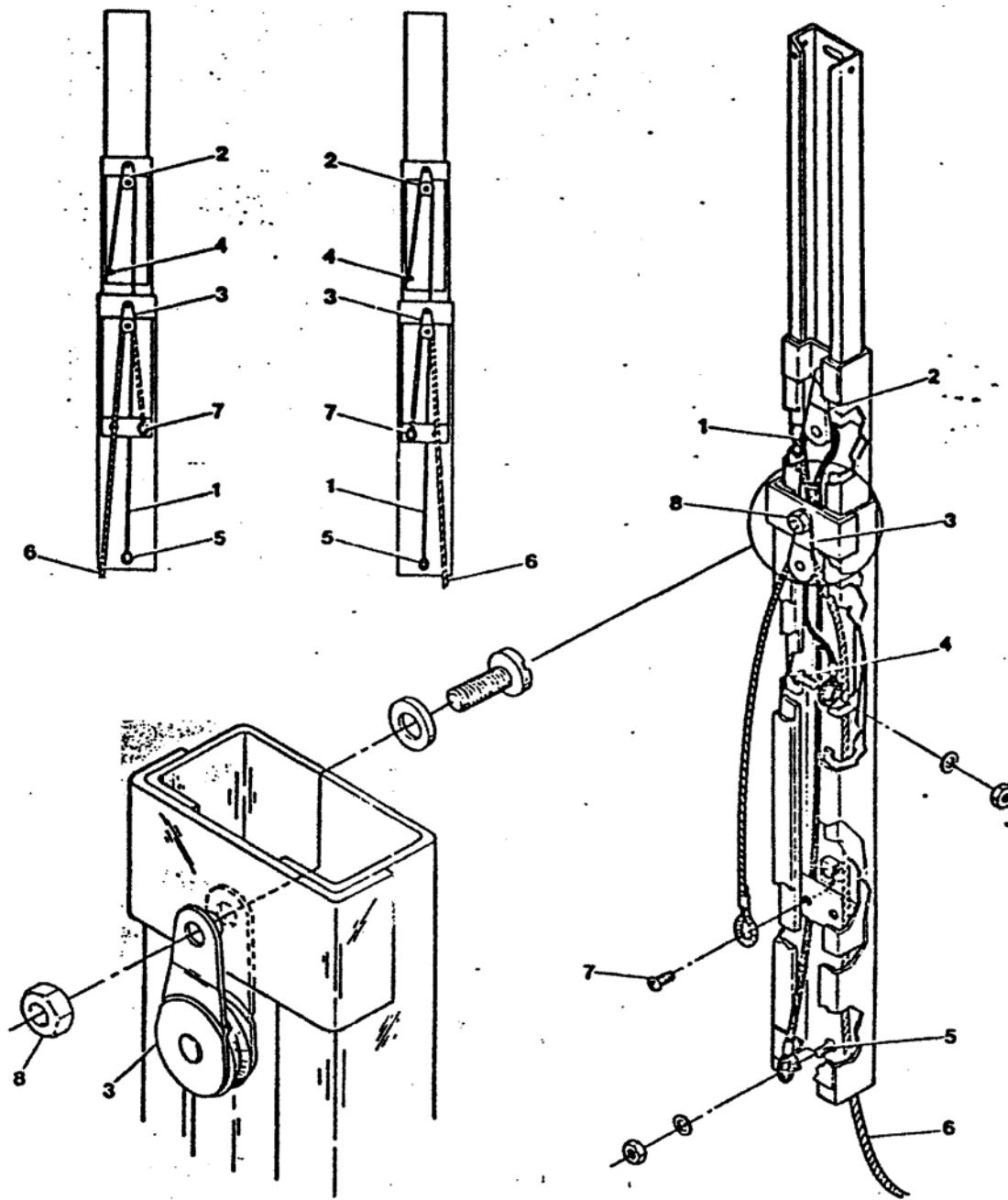


FIG. 5-2

**Outside Cables:** Once inside lifter channel, all outside cables (6) run up and through base channel pulley (3) and back down to anchor bolt (7) in center channel. All four lifter assemblies are composed of three channels - base, center and top. Channels fit one inside the other as shown. Top channel fits inside center channel,

center channel fits inside base channel. See Figure 5-2

**Inside Lifter Cable (1)** is anchored to bolt (5) in base channel and runs up through center channel pulley (2) in center channel, then down and anchored to bolt (4) in top channel.

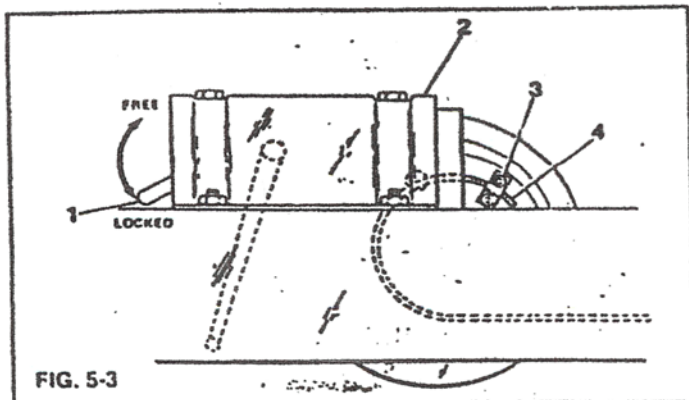
## MAIN CABLE - removal

**TOOLS:** 7/16" socket wrench with extension, two 16" open end wrenches, diagonal or wire cutters and two jack stands.

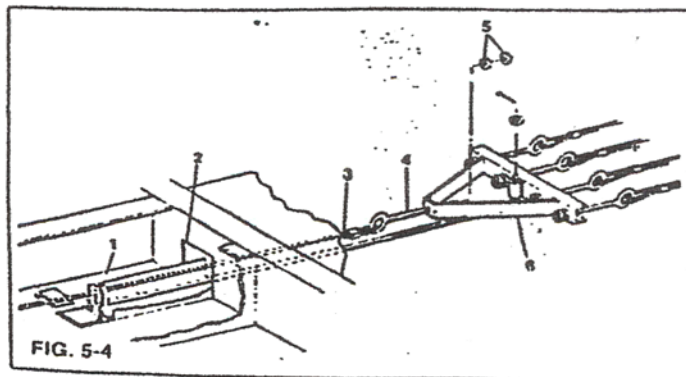
1. Raise unit front for easy access to cable located under unit frame. Use front jack.

**CAUTION:** Place jack stands under front corners of main frame for added safety.

**NOTE:** Hard top of unit must be in down position.



2. Insert crank in winch (2), turn crank clockwise just enough to free ratchet (1). See Figure 5-3.
3. Release ratchet (1). Release tension on main cable (4) by turning crank counterclockwise.
4. Loosen cable clamp (3) securing main cable to winch assembly (2), and remove cable.



5. From underneath unit, pull main cable (3) out of loop on locking bar (1) and through hole in frame (2). See Figure 5-4.
6. Remove two hex nuts (5) securing main cable eyebolt (4) to yoke (6).

## MAIN CABLE - installation

**TOOLS:** Removal tools plus tape measure and electrical tape.

**NOTE:** Cable will have eyebolt secured at one end with cable clamp.

1. Tape open end of cable.
2. From underneath unit, thread taped end of cable (3) through hole (2) in frame, through loop in locking bar (1), and up to winch assembly.
3. Insert eyebolt (4) into yoke (6), secure with two hex nuts (5).
4. At front of unit, thread open taped end of cable under winch drum and out hole into clamp and tighten nuts.
5. Remove safety jack stands, lower unit and level with front jack.
6. Release four roof hold down latches, and raise unit top until locking bar (1) is in lock position.

**CAUTION:** Winch must be in lock position before entering unit.

7. Inside unit, detach upper door from unit ceiling. Swing door down into proper position and check fit. Adjust cable: 42" for Masters and Galaxy's, 44 1/2" for Starflyers.

**NOTE:** If door does not fit into position or binds in door frame, raise lower unit top until door fits into proper position.

**IMPORTANT:** Once unit is at proper height, mark cable and winch body with yellow paint. This will be an indicator for proper height when raising unit.

## LIFTER OUTSIDE CABLE and INSIDE CABLE - removal

**TOOLS:** Saw, two jack stands, 7/16" boxed end and open end wrenches, diagonals or wire cutters, clutch head, standard and 1/4" socket screwdriver.

**NOTE:** For outside cable, follow instructions 1-9. For inside cable and lifters, follow all instructions.



Cut 42" 2 x 4 support stud.

Release four roof hold down latches and raise unit hard top. Assistance may be needed if cable is frayed badly or broken.

Raise unit front for easy access to yoke assembly. Use front jack. Place jack stands under unit front corners for added safety. Engage rear stabilizing jacks as shown if unit is so equipped.

**CAUTION:** Jack stands must be under main frame.

**CAUTION:** For added safety, lower upper door whenever camper top is raised.

**IMPORTANT:** If cable is frayed or parted, assistance will be needed. Lift corner with support stud while cranking top up.

**CAUTION:** Lock winch. Wedge support stud firmly in place under corner that damaged cable leads to. Care must be taken during entire cable removal procedure so you do not dislodge support stud. See Figure 5-5.

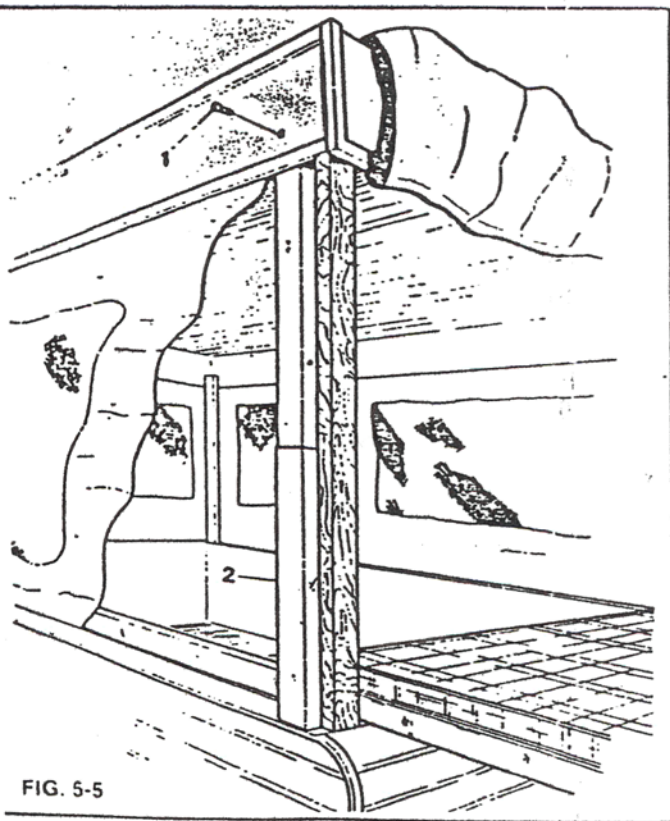


FIG. 5-5

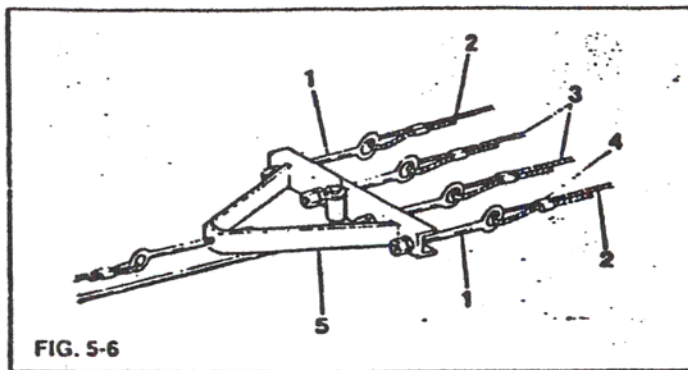


FIG. 5-6

4. Install stud and lower roof 3" to 4". Remove front lifter cable eyebolt (1) from yoke (5) underneath unit, and cut cable (2) behind clamp (4) so it will thread through pulleys and out of frame. See Figure 5-6.
5. Pull out bunk assembly, and place bunk tent on top of unit.
6. Remove bolt (1) and locknut securing lifter assembly (2) to unit hardtop. (Omit on only outside cable removal)

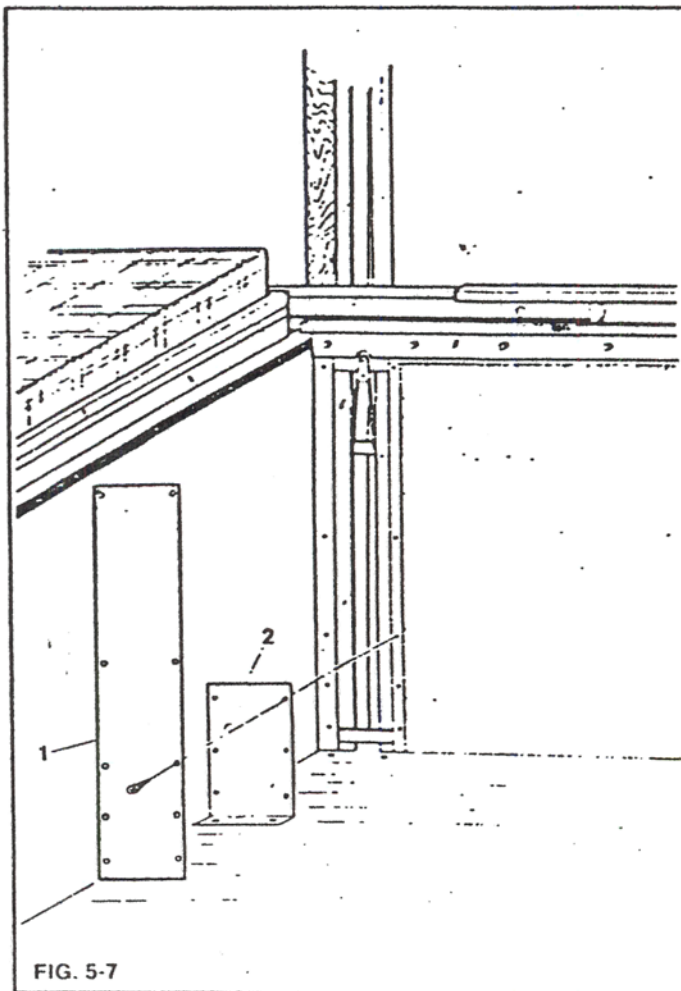
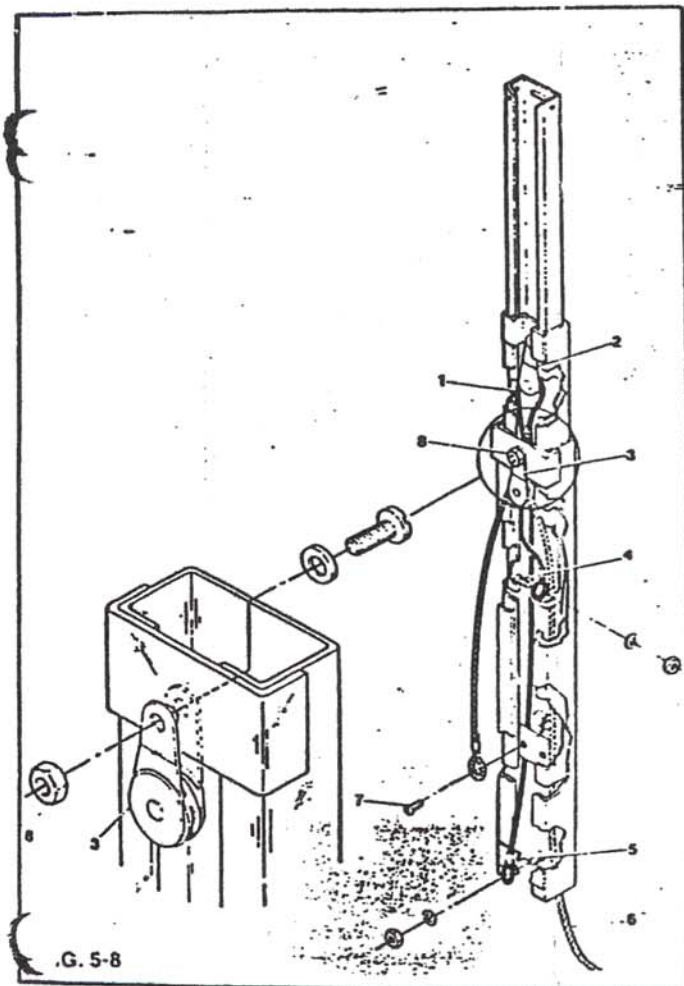


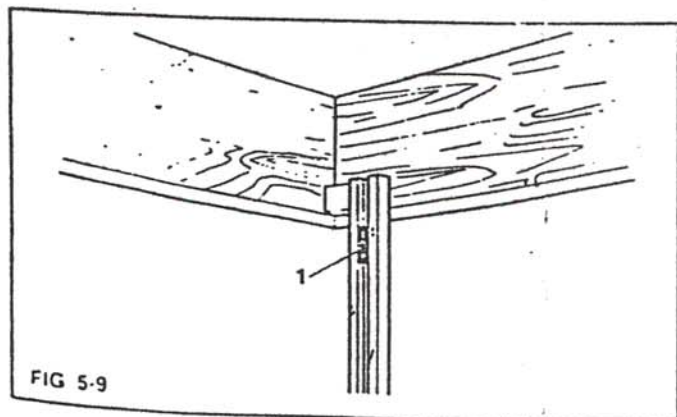
FIG. 5-7

7. From inside unit, remove lifter cover (1) and bottom plate (2). See Figure 5-7.

**NOTE:** It may be necessary to remove items to gain access to lifter cover screws. Drawers from base, tops from seats, sink, etc.

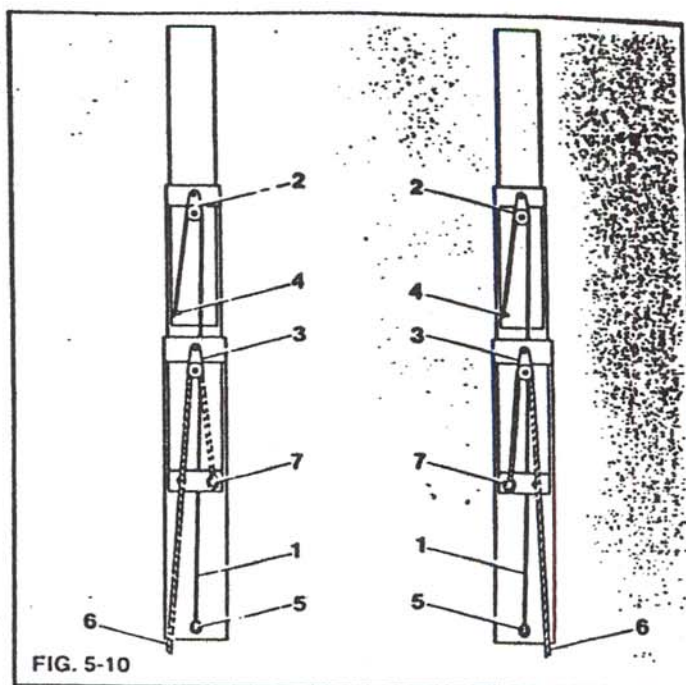


8. Free base pulley nut (8) just enough to spread pulley sides apart. See Figure 5-8. Remove 1/4" bolt attaching cable loop to lifter.
9. Slip outside cable (6) through spread sides of pulley (3), and pull through old cable.

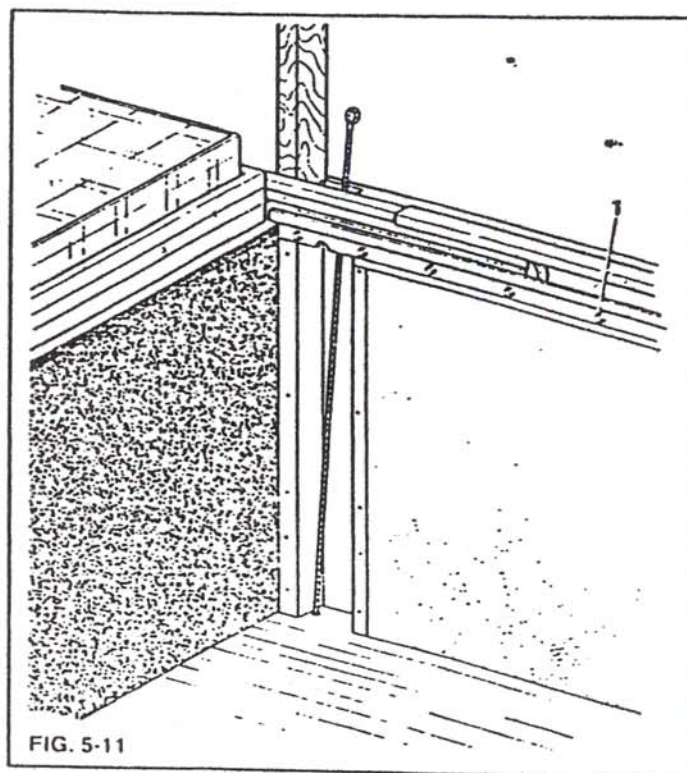


10. Remove small sponge (1) and place just below base pulley. See Figure 5-9.

*RE: Sponge will keep small parts from falling into the channel.*

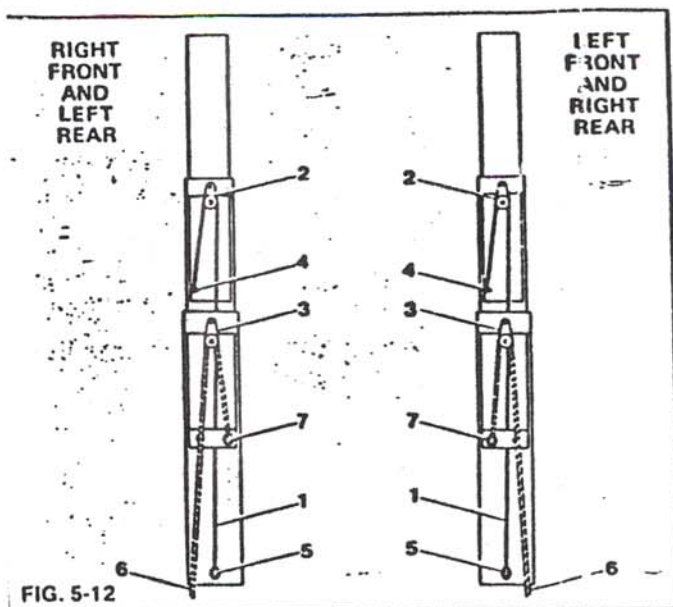


11. Remove bolt (1) and locknut securing lifter to roof at top.
12. Remove center pulley (2) and pull top channel out of center channel, and center channel out of base. See Figure 5-10.



13. Remove bolts (1) from bunk rail, pry toward inside of unit with screwdriver and remove base channel from lifter assembly housing. (Lift out by grasping inside cable.) See Figure 5-11.





15. Remove nuts and washer securing inside cable (1) to top lifter channel anchor pin (4). See Figure 5-12.

16. Remove inside cable.

## Outside Lifter Cable -installation

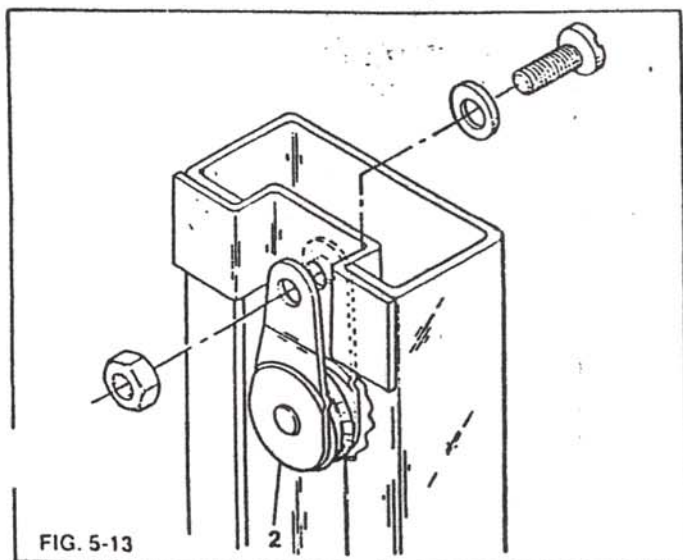
Follow steps 6, 7, 8, 9, 12, 13, 16, and 17.

## Inside Lifter Cable -installation

Follow steps 1-5, 10, 11, and 14

**TOOLS:** Pliers, 7/16" box end wrench, clutch head screwdriver, 1/4" socket and standard screwdriver.

1. Secure new inside cable to anchor pin (4) in top lifter channel with washer and nut. Loop must point down as shown. See Figure 5-12.



2. Install center pulley (2) in center channel with washer, bolt and nut. Finger tight. See Figure 5-13.

**NOTE:** Mounting bracket must be between pulley side sheets.

3. Thread free looped end of cable through center pulley (2) and down center channel behind mounting bracket.
4. Slide top lifter channel into center channel, and slide housed (top and center) channels into base channel. See Figure 5-12.

**NOTE:** Care must be taken not to jam new cable.

5. Pull free looped end of new inside cable down and secure to anchor pin (5) in base channel with washer and nut. See Figure 5-12.
6. From under unit, thread looped end of new outside cable through proper center pulley, through corner pulley and up into hole in unit floor.
7. Thread outside cable (6) up through base and center channel in front of mounting bracket and up to pulley (3). See Figure 5-12.
8. Loosen base channel pulley (3) and thread looped end of outside cable (6), through pulley and down to mounting bolt (7). See Figure 5-12.

**NOTE:** Center channel mounting bracket has two holes for anchor bolt (7). Cable on right front and left rear, mounts as shown on left view of Figure 5-12. Left front and right rear cable, threads and mounts as shown on right view of Figure 5-12.

9. Secure pulley (3) and secure looped end of outside cable (6) to proper hole for anchor bolt (7) in center channel bracket. See Figure 5-12

**CAUTION:** Outside cable loop must point down as shown.

10. Pry bunk track away from unit enough to insert lifter assembly. Use screwdriver.

**IMPORTANT:** Care must be taken so as not to damage interior sidewall panel.

**NOTE:** Assistance will be needed outside unit to take up slack in outside cable as lifter assembly is being installed.

11. Insert lifter assembly into housing. Replace bolts in bunk track.

**NOTE:** Top and center channels should slide freely up and down. Test assembly by pulling cable from under unit. Lifter assembly should rise when cable is pulled.