Section 2. 1970 Lift System

1. GENERAL

The overall lift system and its operation in raising is shown in figure 8.

2. TROUBLESHOOTING (figure 9)

a. Road cover is jammed in up position or won't raise.
   1. Push spring kinked or jammed.
   2. Chain jammed at sprockets.

b. Front end will not raise.
   1. Loose or broken chain.
   2. Drive pin at connecting tube broken.

c. One end just pulsates up and down.
   1. Chipped, worn, or broken gears in gear box. Replace gear box.

3. PRELIMINARY OPERATIONS

a. The chain track is accessible from the interior only. Therefore, if the system is jammed 2 to 24 inches in the up position,it will be necessary to crawl in on hand and knees, or attempt manual lifting of the cover. In the latter method, the crank is turned until resistance is felt. Then back off a little, while at the same time, four people (who have been stationed at each corner) push up. This may straighten the push spring or chain so that the cover can be raised up. Stand side walls up to support cover.

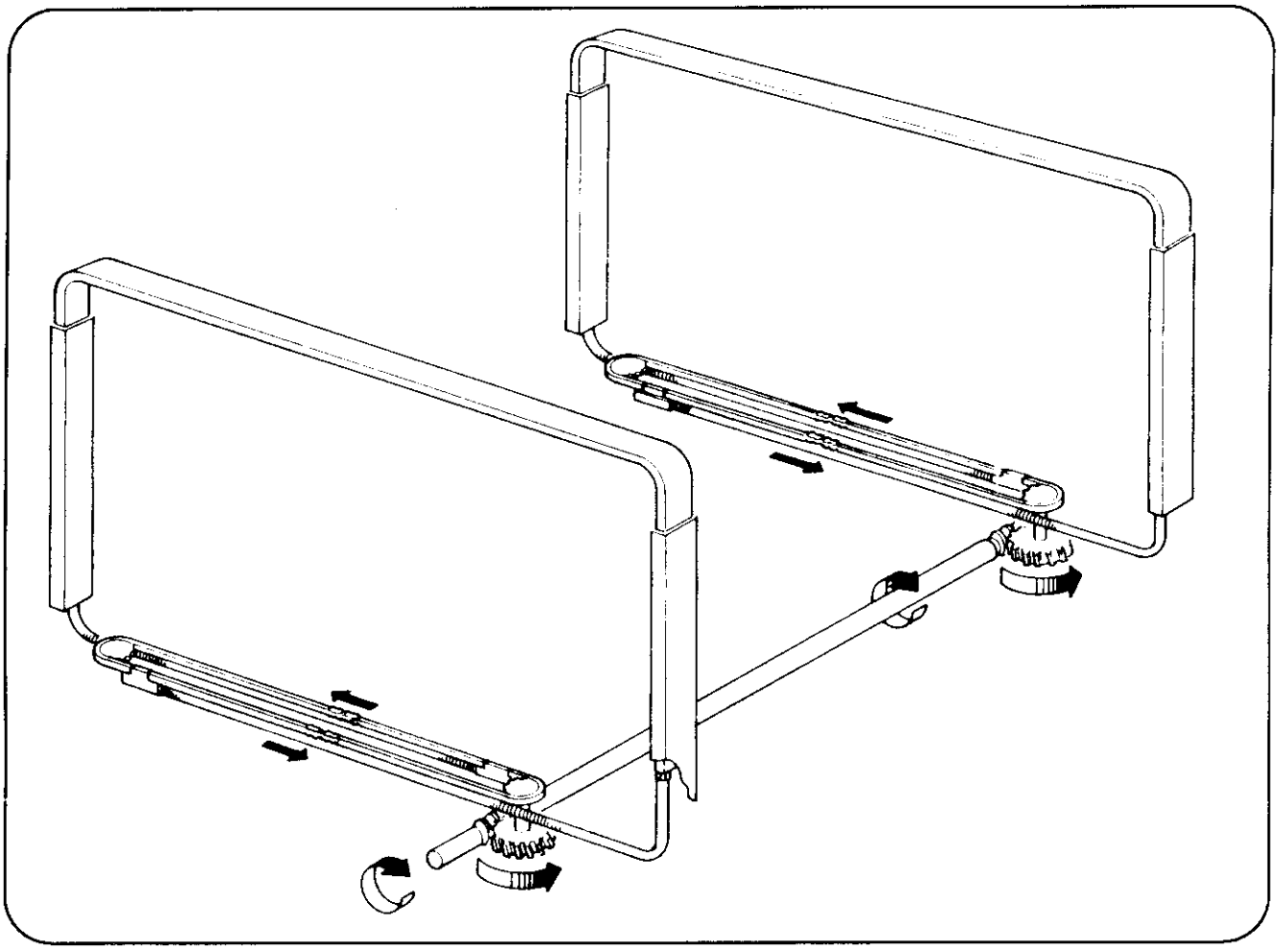

Figure 8. Lift System Operation - 1970

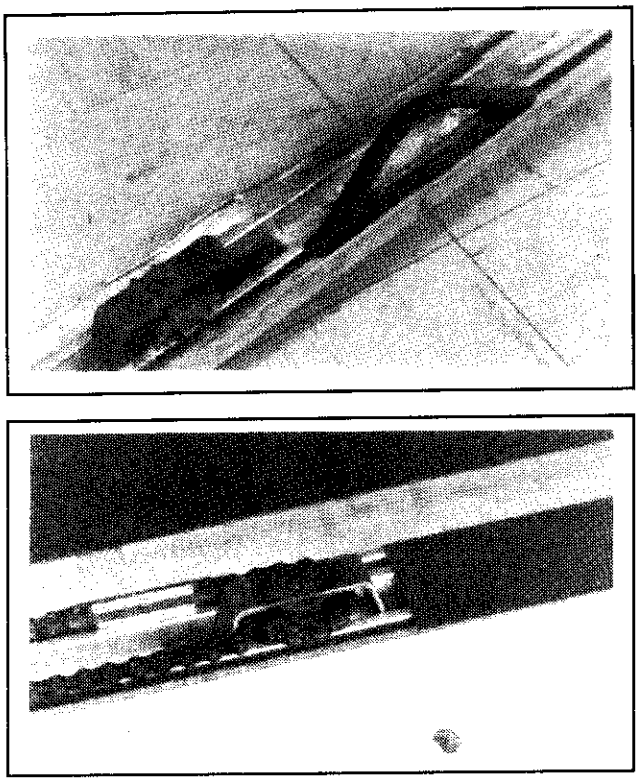

Figure 9. Kinked, Jammed, and Loose Chains.

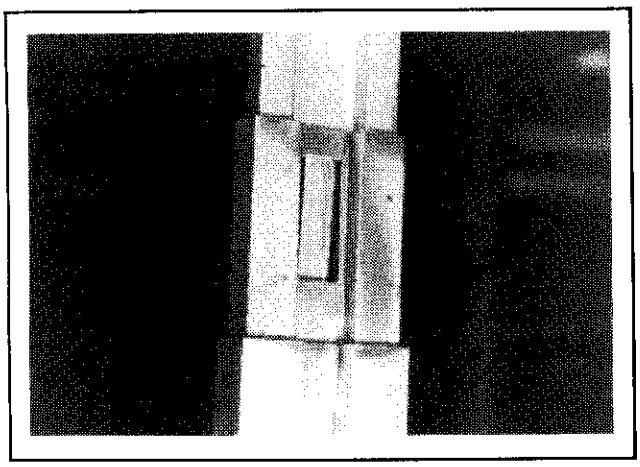

Figure 10. Stop Tangs

b. Rear Chain Track Access.

Access to the rear track is gained by removing the rear panel of each seat box and the rear inner lining (wood) panel on which the table is hinged.

c. Front Chain Track Access.

1. Mesa III
Remove the ice box cabinet assembly.
2. Ramada II
Remove the inner panel of the porta-potti cabinet and the inner lining(wood) panel.

d. Entering The Chain Track Proper.

1. Make sure road cover is supported by blocks or side walls.
2. Remove the two 3/8" nuts securing the track cover.
3. The cover can now be removed, exposing the chain, sprockets, and springs.

4. PUSH SPRING REPAIR.

a. If road cover is still jammed down, cut push spring at kink. Then with someone pushing up on that corner, crank the top up and erect sidewalls to support cover.

b. Depress the tang which holds the middle lift post in place. Push down on the middle extrusion (figure 10). This will expose the cable so that the cable can be removed.

c. Unscrew cable from upper extrusion, if cable has been cut, remove this end.

d. Loosen idler bracket so that chain has slack.

e. Disconnect the chain from the follower of the damaged cable. Then, remove the cable-spring and follower through the elongated slot in the chain track extrusion (figure 11).

f. Install the new push spring and cable assembly into the slot in the bottom chain track extrusion. Feed bolt end of cable up chain track (it may require some force to get past radius) and position follower in track. Attach the cable to the corner post by screwing the bolt into the upper post. Reconnect follower to the chain (figure 10).

g. Raise the middle post extrusion so that the tang is engaged (figure 10).

h. Place a 2-3/4" x 8" 11 gauge steel plate (figure 11) part no. 1900694 over slot in chain track , if one wasn't there originally. This plate keeps the spring from jamming or kinking at the slot. If the plate was not installed, check other end and install plate if missing.

i. Check and make certain that the idler sprocket is adjusted so that the chain is tight (see para.5B.5). Tighten idler sprocket bolts (figure 12).

j. Make certain all bolts and screws, which retain the lower chain track extrusion to the floor, are tight.

k. Lubrication of the chain, and spring-cable assembly is a must to help prevent rust from forming on the moving parts.

l. Install the chain track cover extrusion and reassemble the parts that we removed to gain access to the lift assembly.

5. CHAIN AND SPROCKET REPAIR

a. Chain and sprocket problems.

Any or all of the following problems could cause the lift system to become jammed.

1. Broken chain.

2. Chain loose and bunched at either sprocket. This loose chain can be caused by a bent idler sprocket saddle or loose mounting bolts.

3. Broken, chipped or worn sprockets. This also can be caused by bent or loose idler sprocket.

b. Repair.

1. If the road cover is still jammed down, free up the chain and/or sprockets to allow raising. Then with someone pushing up at each corner of the problem end, crank the top up and erect side walls to support cover.

2. Inspect the chain, sprockets and saddles for damage or excessive wear.

3. Chain replacement.

A. Loosen idler sprocket.

B. Disconnect chain at master link unless broken and remove.

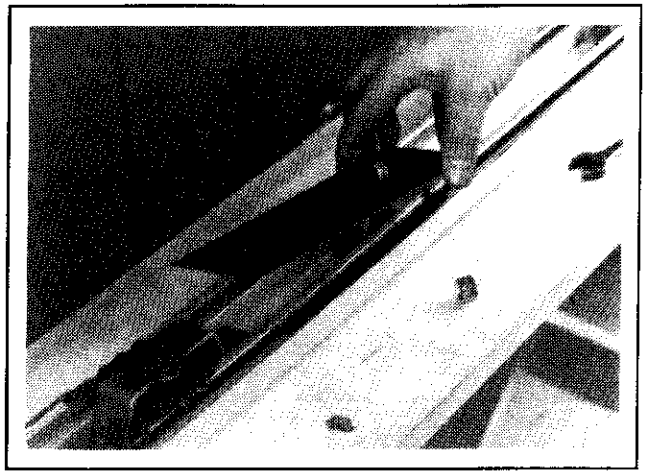

Figure 11. Removing Push Spring

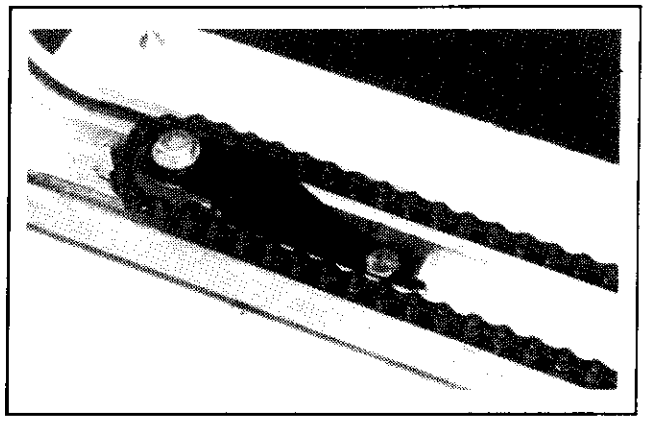

Figure 12. Chain Adjustment

C. Install new chain using master link (part # 0958773) and adjust.

4. Sprocket replacement.

A. If chain is not loose, loosen idler sprocket and saddle.

B. On idler sprocket, remove bolts securing it to chain track. Remove sprocket and saddle.

C. On drive sprocket, remove two bolts securing it to chain track. Remove sprocket and saddle.

D. Install new sprocket and adjust chain.

5. Chain Adjustment (figure 12).

The chain must be tight for proper operation. Adjusting the tightness is simply accomplished by loosening the idler sprocket bolt and moving as required for tightness.

6. Make certain that you have installed the plate (#1900694) over the elongated slot in chain track (see para.4h).

7. Check that all bolts have been tightened.

8. Lubricate the chain and spring-cable assembly.

9. Reinstall parts removed to gain access.

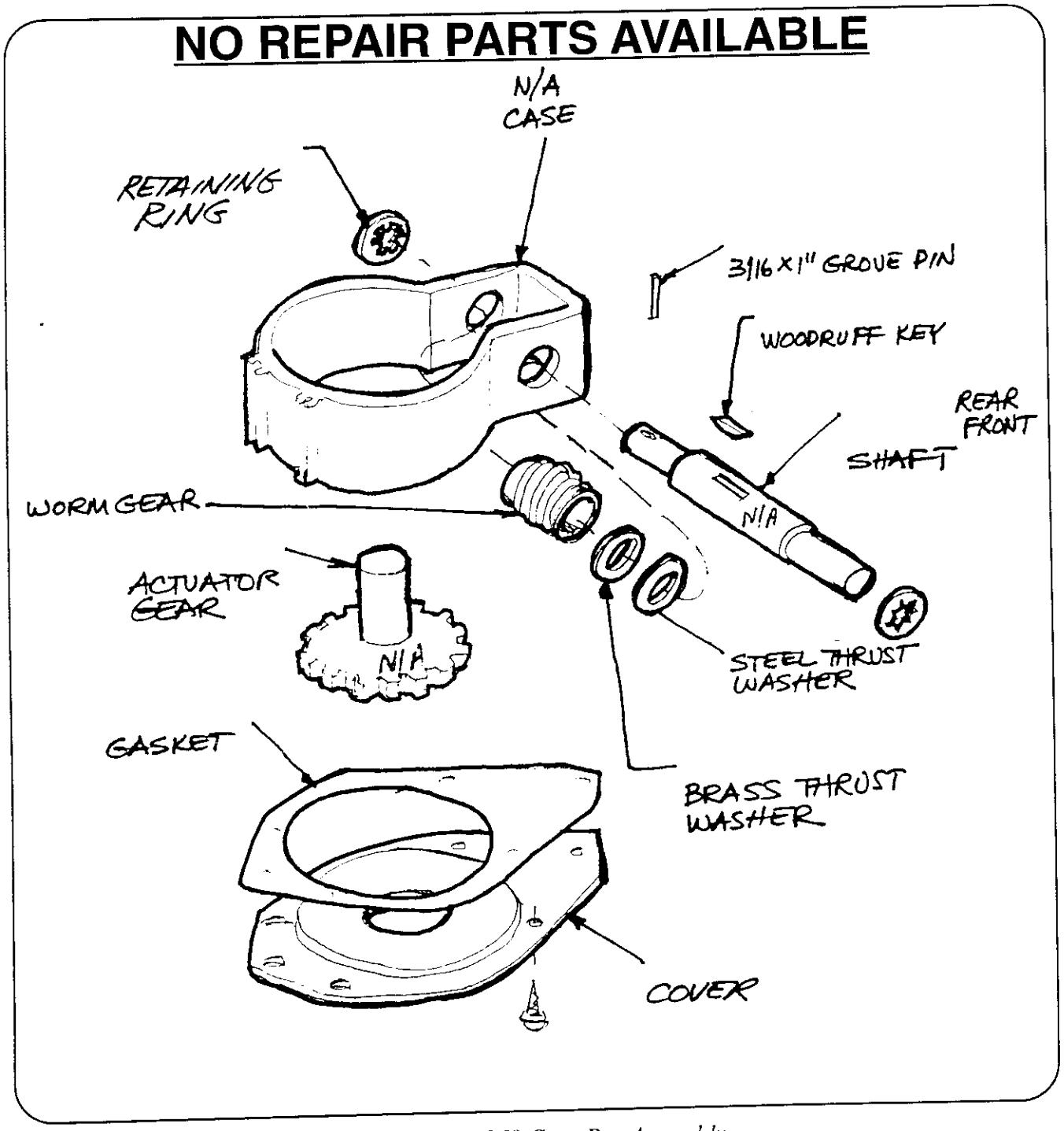

Figure 13. 1970 Gear Box Assembly

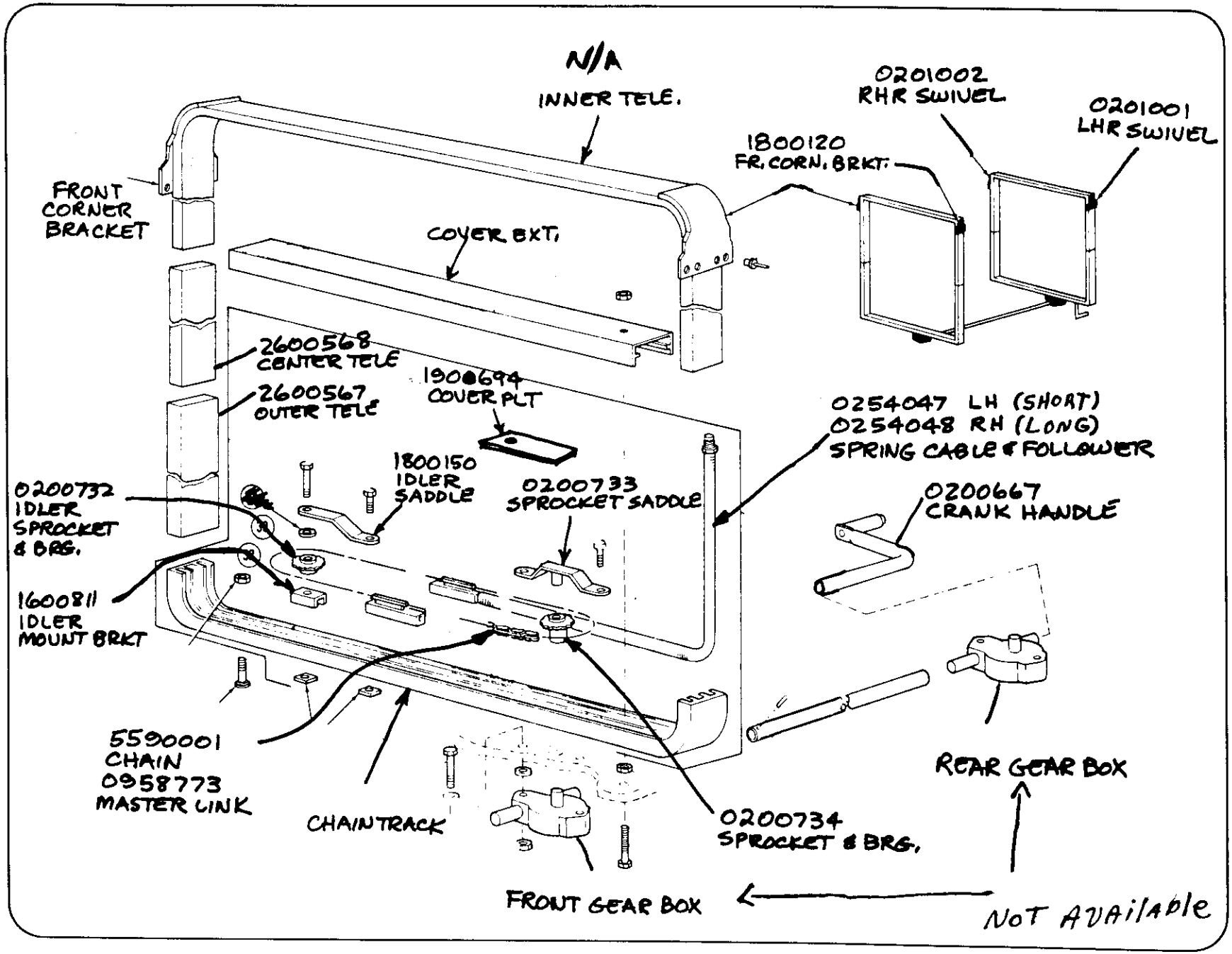

Figure 14. Lift System Exploded View - 1970