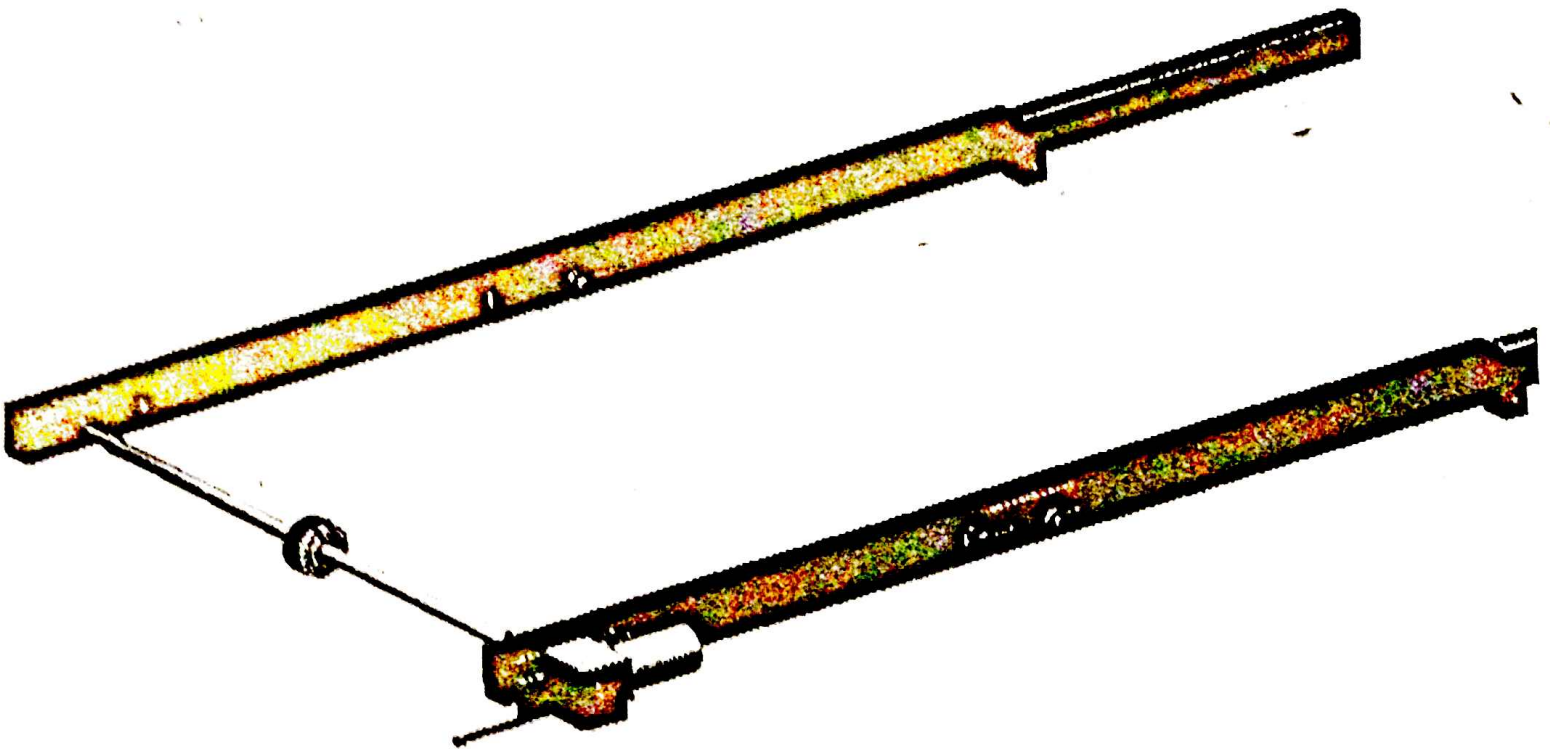


ASP Slide Systems

Owners Manual



Chain Drive Slide System

ASP Slide Systems

Chain Drive Slide System

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Instructions for changing parts on “Chain drive slide system.

The following are instructions for removal and replacement of some of the more common parts. If any further questions, please contact your dealer.

Tools needed:

- Phillips Screwdriver
- 1/8" Allen Wrench
- 7/16" Wrench
- 1/2" Wrench
- 3/4" Wrench

Jack-Shaft Replacement:

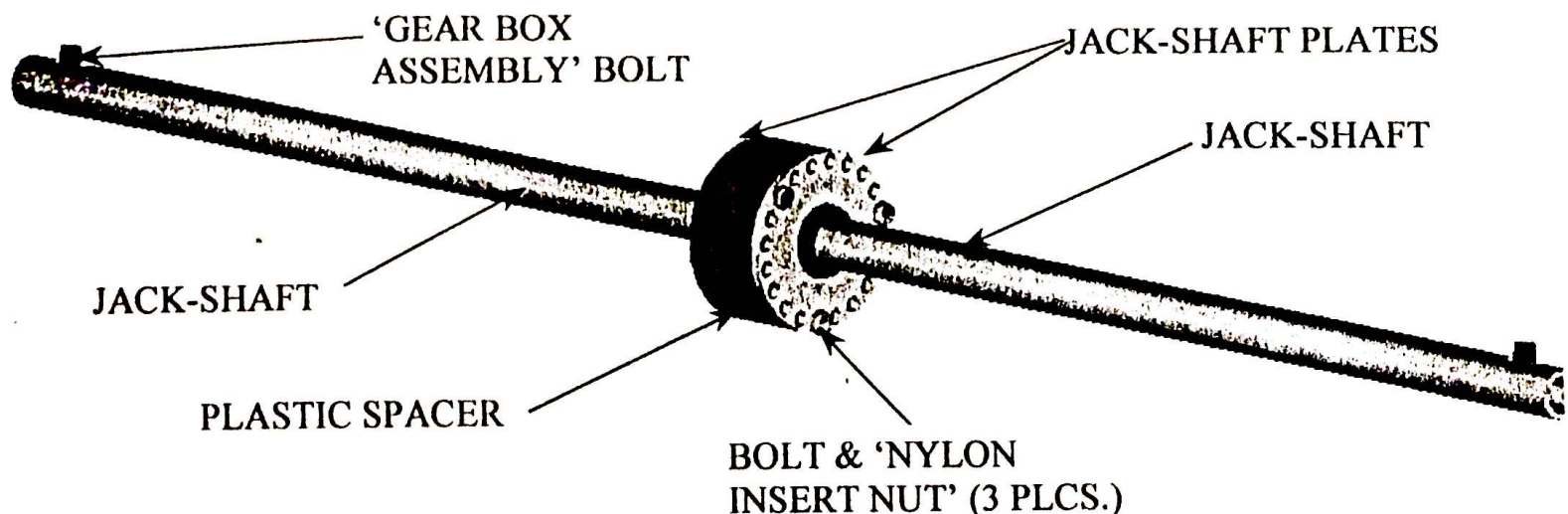
The Jack-Shaft Assembly is located at the end of the Tubes. It connects and drives the chains.

To remove:

- 1.) Locate the Plastic Spacer between the Jack-Shaft coupling.
Remove the three nylon insert nuts, using the 1/2" wrench and remove the three bolts.
- 2.) Remove the Plastic Spacer.
- 3.) Remove the bolt from the Rear Sprocket Assembly.
- 4.) Slide Jack-Shaft inward (away from Rear Sprocket Assembly) and remove.
- 5.) Remove the bolt from the Gear Box Assembly.
- 6.) Slide shaft inward (away from Gear Box Assembly) and remove.

To replace:

- 1.) Place the new Jack-Shaft on the Rear Sprocket Assembly and insert the bolt (hand tighten).
- 2.) Place the new shaft on the Gear Box Assembly and insert the bolt (hand tighten).
- 3.) Insert the Plastic Spacer.
- 4.) Line up three holes using the hand crank to rotate the Jack-Shaft.
- 5.) Insert the three bolts through the Jack-Shaft plates and Plastic Spacer. (Only 3 holes will line up)
Tighten the three nylon insert nuts.
- 6.) Tighten bolts on the Sprocket Assembly and Gear Box Assembly.



Motor Replacement:

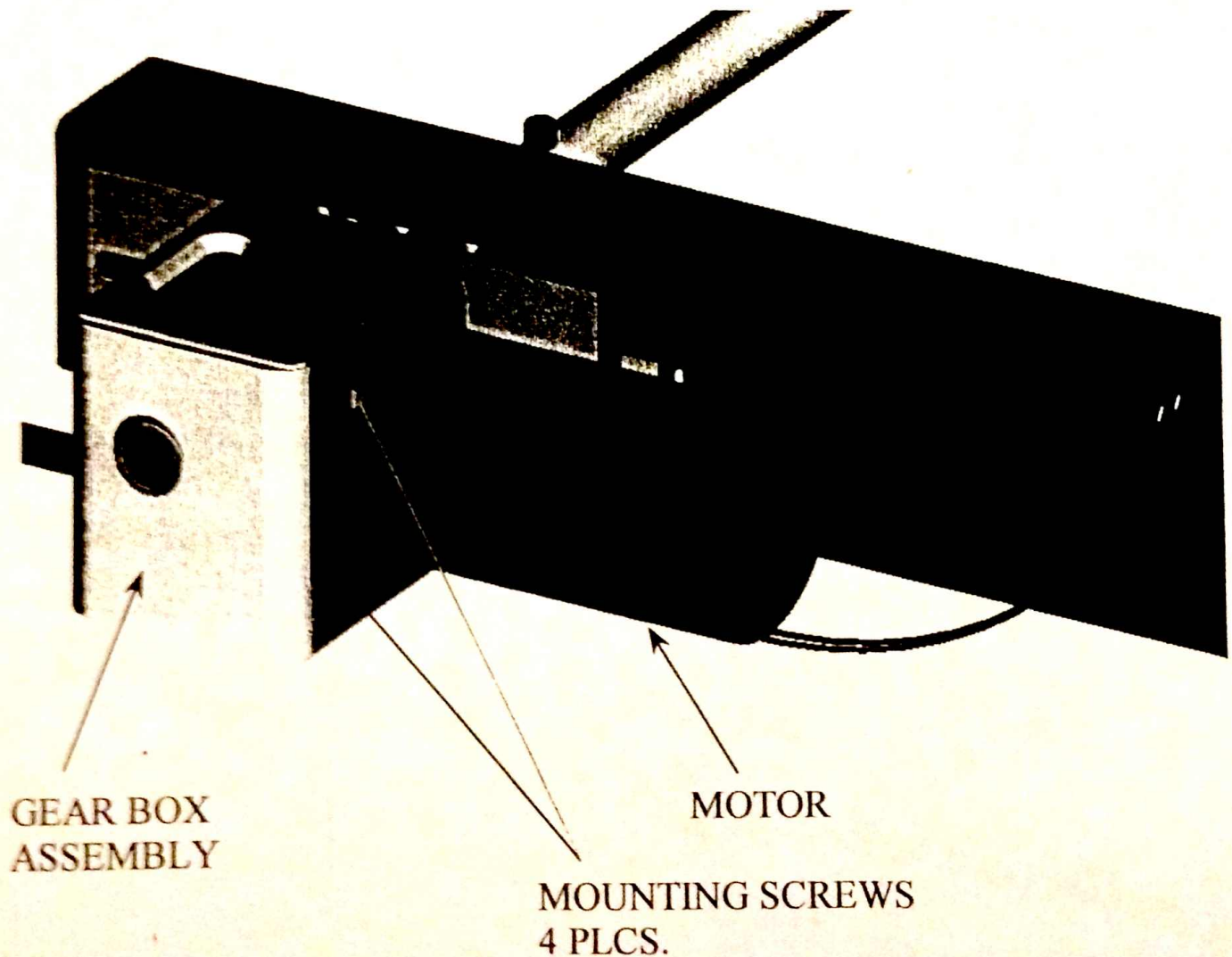
The Motor is located at the end of one of the Tubes. It is connected to the Gear Box Assembly.

To remove:

- 1.) Disconnect the battery/power supply.
- 2.) Disconnect the two Motor wires from the terminal.
- 3.) Hold the Motor perpendicular to the Gear Box Assembly and remove the four screws, using a 7/16 wrench.
- 4.) Pull Motor away from Gear Box Assembly.

To replace:

- 1.) Reverse process



Gearbox Replacement:

The Gearbox is located at the end of one of the Tubes. Note: parts inside Gear Box Assembly cannot be user serviced. (See dealer for replacement Gear Box Assembly)

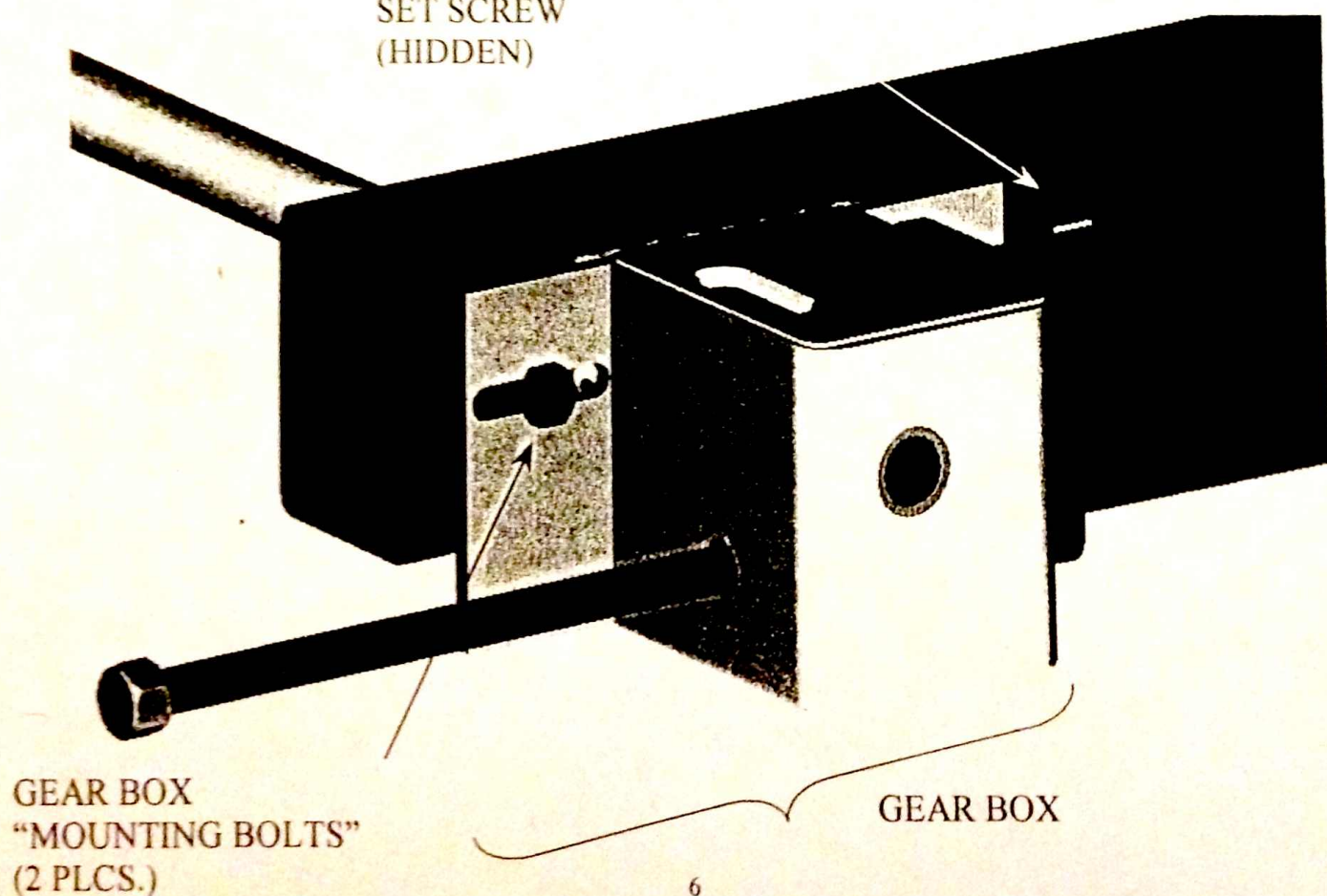
To remove:

- 1.) Follow above instructions for removing Motor and Jack-Shaft.
- 2.) On inside of Motor Tube, remove cover plate with Phillips screwdriver.
- 3.) On Motor side of Tube, loosen the Chain adjustment 'set screw' with the 1/8" Allen Wrench.
- 4.) Remove the two Gearbox Assembly mounting bolts with the 1/2" wrench.
- 5.) Lift the Chain off of the sprocket and remove Gear Box Assembly from tube.

To replace:

- 1.) Reverse process.
(Adjust Chain tension by turning set screw until chain sags 1/4" - 1/2".)

CHAIN ADJUSTMENT
SET SCREW
(HIDDEN)



Rear Sprocket Assembly Replacement:

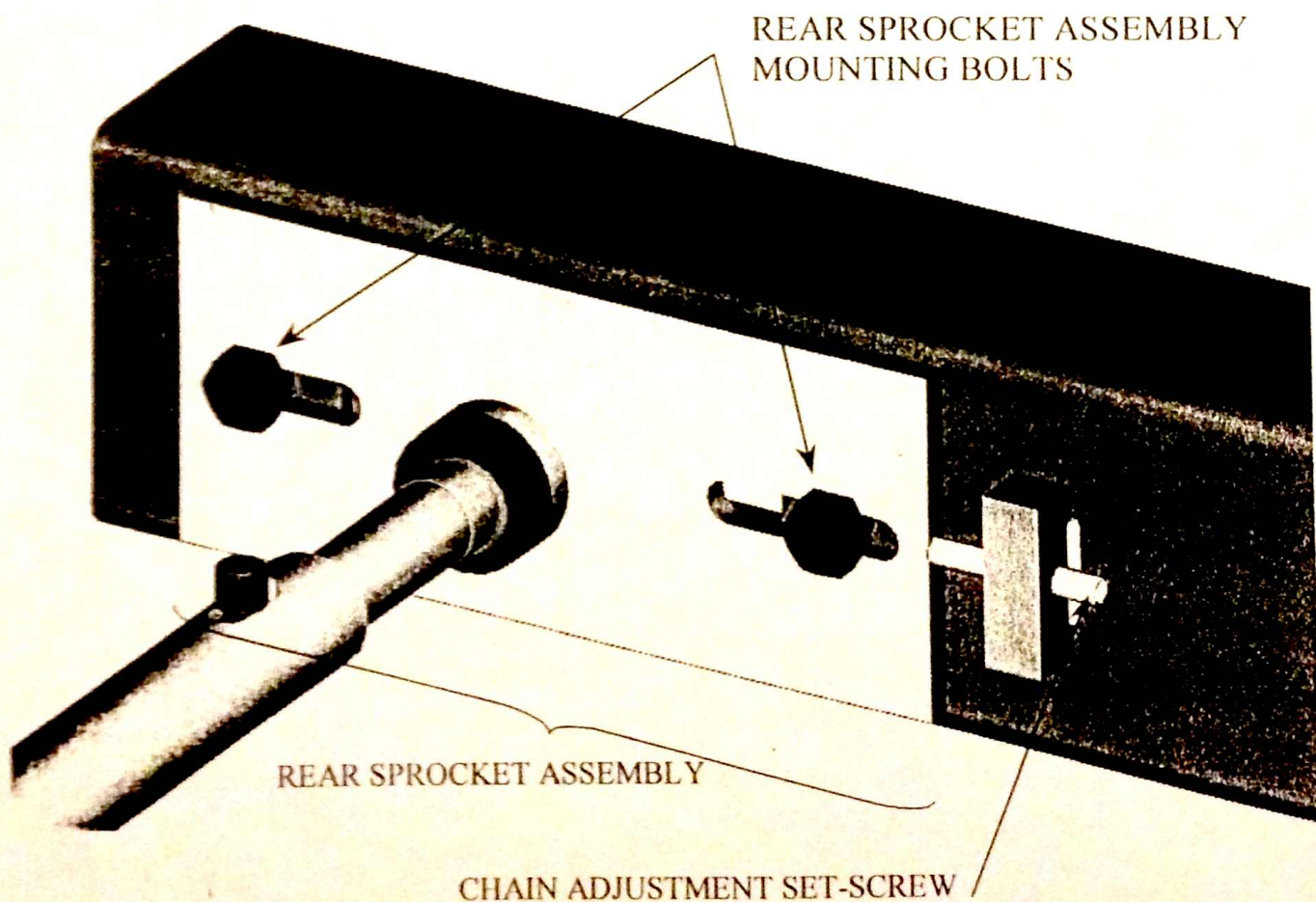
The Rear Sprocket Assembly is located at the end of the 'non Motor' Tube. Note: parts inside the Rear Sprocket Assembly cannot be user serviced. (See dealer for replacement Rear Sprocket Assembly)

To remove:

- 1.) Follow above instructions for 'removing Jack-Shaft'.
- 2.) On side of tube, loosen the chain adjustment 'set screw' with the 1/8" Allen wrench.
- 3.) Remove the two Rear Sprocket Assembly mounting bolts with the 1/2" wrench
- 4.) Lift the Chain off of the sprocket and remove Rear Sprocket Assembly from the Tube.

To replace:

- 1.) Reverse process.
(Adjust Chain tension by turning set screw until Chain sags 1/4" - 1/2".)



Chain Replacement:

The Chains are located within each of the Tubes.

To remove:

- 1.) Depending on which Tube requires Chain replacement:
 - a.) Non-Motor side: Follow above instructions for 'Rear Sprocket Assembly replacement' and 'Jack-Shaft replacement'. [or]
 - b.) Motor side: Follow above instructions for 'Motor replacement' and 'Gear Box replacement'.
- 2.) Confirm that the Inner Tube is fully retracted (Inside cutout should be in window).
- 3.) On the Front Sprocket Assembly, loosen the chain adjustment set screw' with the 1/8" Allen wrench.
- 4.) Remove the two Front Sprocket Assembly mounting bolts with the 1/2" wrench.
- 5.) Move the Front Sprocket Assembly out enough to allow removal of the Chain. Lift the Chain off of the sprocket and remove Front Sprocket Assembly from tube.
- 6.) Remove the Inner Tube from the Outer Tube.
- 7.) Remove the spring pin from the chain holder.
- 8.) Remove the Chain from the end of the Tube.

To replace:

- 1.) Insert the Chain from the end of the Tube.
- 2.) Attach the Chain to the chain holder with the spring pin.
- 3.) Install the Inner Tube. Must be fully retracted (Inside cutout should be in window).
- 4.) Position the Front Sprocket Assembly close to the Tube and place the Chain around the Front Sprocket Assembly.
- 5.) Reposition the Front Sprocket Assembly and install the two mounting bolts. (hand tighten)
- 6.) Depending on which tube requires chain replacement:
 - a.) Non-Motor side: Replacing the Rear Sprocket Assembly' and 'Jack-Shaft'. [or]
 - b.) Motor side: Follow above instructions for replacing 'Motor' and 'Gear Box Assembly'.

Maintenance:

It is recommended that all preventive maintenance and inspections be completed annually at the beginning of the season.

Seasonally/Annually:

- 1.) Grease gearbox with 10 shots of 'gear grease'.
- 2.) Inspect and adjust the Chain tension as needed. Chain should have $\frac{1}{4}$ " – $\frac{1}{2}$ " sag.
[To Adjust Chain Tension]
 - a.) Loosen the two 5/16 bolts on the Front Sprocket Assembly.
 - b.) Turn the chain adjusting screw.
 - c.) Tighten the two 5/16 bolts on the Front Sprocket Assembly.
(Do not over tighten the Chain! Bearing damage may result.)
- 3.) Check for broken or frayed wiring. Replace as necessary.
- 4.) Inspect all switches. Test for proper operation. Replace as necessary.
[To Adjust Limit Switch]

Front Switch

- a.) Move the room all the way "in" (with hand crank) until the 'outer seal' is compressed properly. (Use caution when using the hand crank – See "Manual/Hand Crank Operation" pg. 15)
- b.) Loosen the two screws holding the 'switch stop bracket'.
- c.) Position the 'switch stop bracket' to actuate the switch.
- d.) Tighten the two screws holding the 'switch stop bracket'.

Rear Switch

- a.) Move the room fully "out" (with hand crank) until the 'inner Seal' is compressed properly. (See "Manual/Hand Crank Operation" pg. 15)
 - b.) Loosen the two screws holding the switch.
 - c.) Slide the switch so that it is actuated.
 - d.) Tighten the two screws holding the switch.
- 5.) Oil Chain/s and Limit switches lightly with WD-40 or similar product.
[To oil Chain]

- a.) Remove the Tube cover plates to access the Chain.

As needed:

- 1.) Keep slides free of dirt, grass and other foreign materials.

Contact dealer for replacement parts or service.

Troubleshooting:

Problem:

Cause:

Solution:

Room will not move
When switch is
Depressed, no noise
From motor

Battery not charged.

Low/no voltage to
Motor. *Charge battery.*

Limit switch not
adjusted properly.

Proper voltage supplied
to Motor.
Room retracted, rear
switch should be activated
Room extended, front
switch activated. *Adjust
switches as required.*

Defective Motor

Proper voltage supplied
to motor. *Replace Motor*

Room will not move
When switch is pressed
and the motor is making
noise.

Defective Gearbox

Remove Motor from
Gearbox and run Motor.
If motor runs, Crank
"manual crank". If slide
moves normally, Gearbox
is bad. *Replace Gearbox.*

Motor operates normally
No movement from
Slides.

Broken Chain

Inspect chain/s.
Replace Chain if needed.

Problem:	Cause:	Solution:
Room will not seal on One side	Jack-Shaft broken.	Inspect Jack-Shaft <i>Replace Jack-Shaft if needed.</i>
	Loose Jack-Shaft.	<i>Tighten all bolts.</i>
	End brackets broken Or disconnected	<i>Inspect and tighten all all connections.</i>
	Jack-shaft not properly aligned.	<i>Remove the coupling Bolts (3 plcs.), straighten Room and replace bolts. (only 3 bolts will line up)</i>
Room stops moving, Travel in or out	Broken or loose Chain on Non-Motor slide.	Remove covers. Inspect Chain. <i>Replace Chain if needed.</i>
	Slides binding.	Turn hand crank to mid. location. If binding, see Dealer.
	Limit switch Adjustment.	Room travels freely with Hand crank. Rear switch Should be activated, front switch should not be activated. <i>Adjust or replace switches as required.</i>
	Defective Motor	Proper voltage supplied to Motor. <i>Replace Motor</i>
	Battery not charged.	Run slide with Converter. Low/no voltage or to Motor. <i>Charge battery.</i>

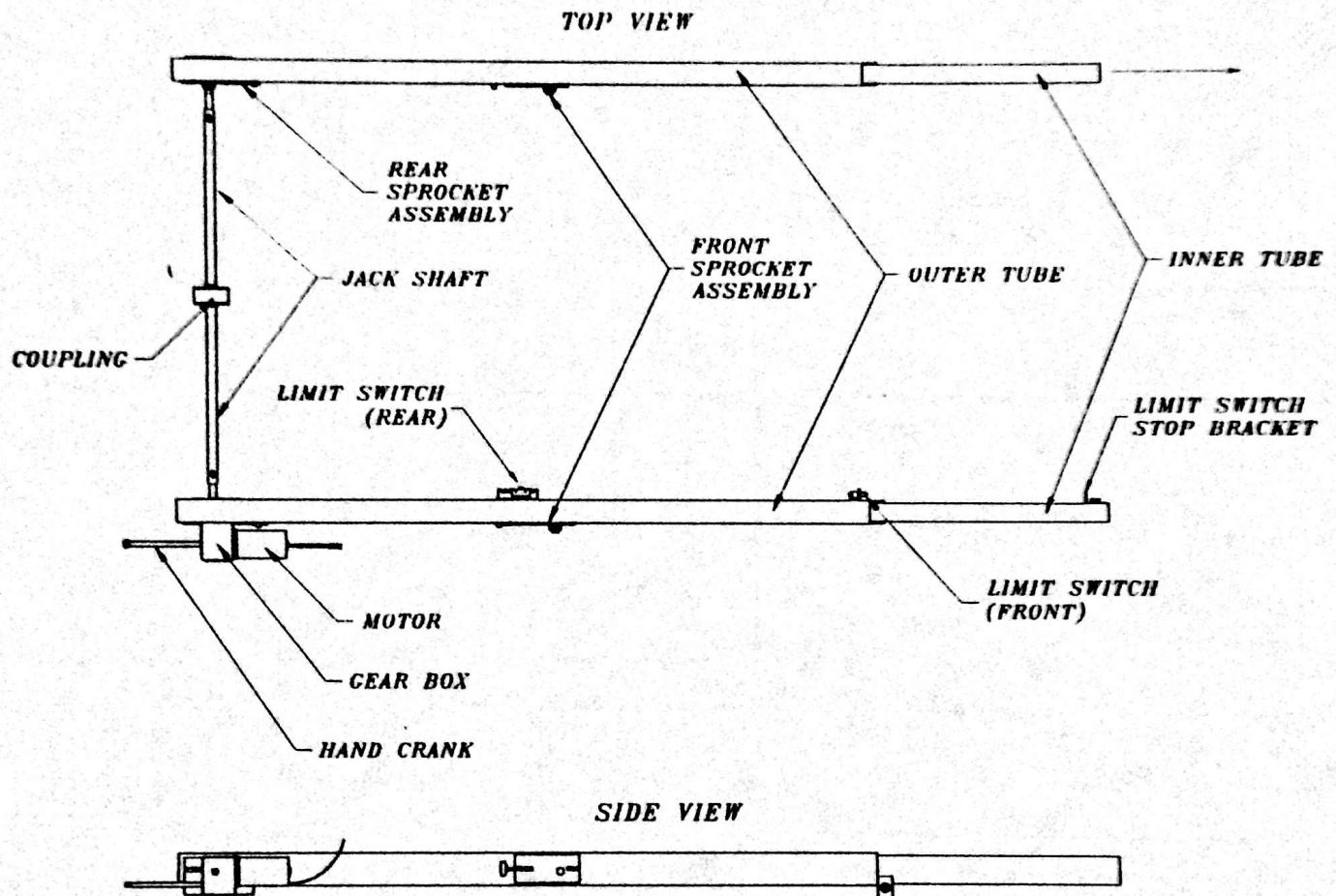
Parts List:

DESCRIPTION

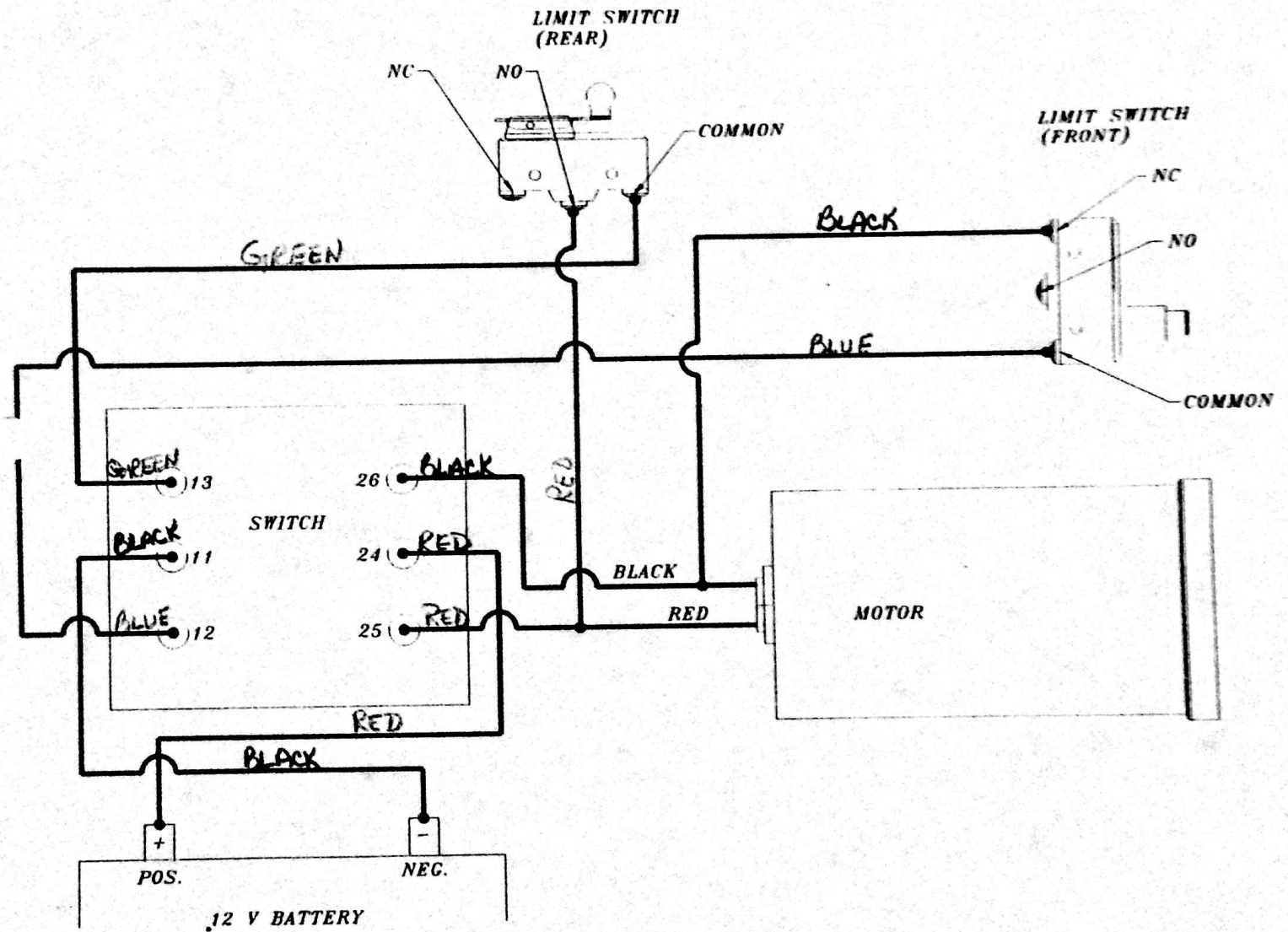
PART NO.

Gear Box Assembly	ASP-12 4000
Front Sprocket Assembly	ASP-12 1700
Rear Sprocket Assembly	ASP-12 1800
Outer Tube Assembly	ASP-12 1000
Inner Tube Assembly	ASP-12 1100
Jack-shaft Assembly	ASP-12 9000
Motor	ASP-12 5000
Chain	ASP-10 2000
Limit Switch (front)	ASP-10 6100
Limit Switch (rear)	ASP-10 6150

Chain Drive Slide Parts Diagram



Chain Drive Slide Wiring Diagram



Manual/Hand Crank Operation:

The Hand Crank Shaft is located on the Gear Box Assembly/Motor area.

To Operate:

Note: It is recommended that two persons be used for this task.

- 1.) Place the 'socket end' of the Hand Crank Mech. on the Hand Crank Shaft.
- 2.) Turn the Hand Crank Mech. to move the room in the desired direction.
- 3.) *Carefully turn the Hand Crank Mech. until the 'inner' or 'outer room seal' is properly compressed. (The second person is used as an informer when the room is in the desired position.)

***CAUTION!** The Limit switches will not prevent the room from exceeding recommended travel. The Hand Crank will generate a great deal of torque. Damage to the room may result if the room exceeds recommended travel.