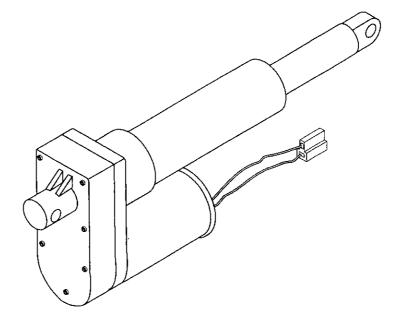
Owner's Manual

CRAFTSMAN®

ELECTRIC LIFT ACTUATOR KIT For AUTOMATIC DRIVE GARDEN TRACTORS WITH TOP MOUNTED TRANSAXLE INPUT PULLEY

Model No. **917.242450**



CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment.

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts

Sears, Roebuck and Co., Hoffman Estates, II 60179 Visit our Craftsman website:www.sears.com/craftsman

SAFETY RULES



Safe Operation Practices for Ride-On Mowers



IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing.
 Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary.
 Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn.
 Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments.
 These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments.
 The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

III. CHILDREN

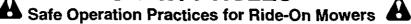
Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

SAFETY RULES













- Be sure the area is clear of other people before mowing.
 Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary.
 Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- · Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Do not coast down a hill in neutral, you may lose control of the tractor.



CAUTION: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.



CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

WARRANTY

LIMITED ONE YEAR WARRANTY ON CRAFTSMAN ATTACHMENTS

For one year from the date of purchase, when this electric lift attachment is maintained according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This warranty does not cover:

- Expendable items which become worn during normal use.
- Repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual.
- Attachments used for commercial or rental purposes.

Warranty service is available by returning the Craftsman Electric Lift Kit to the nearest Sears Service Center in the United States. This Warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., D/817 Wa, Hoffman Estates, Illinois. 60179

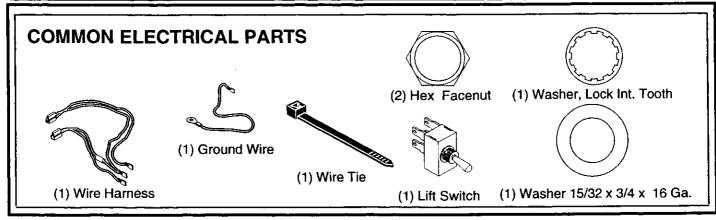
BEFORE YOU START TO ASSEMBLE THE ELECTRIC LIFT KIT

This electric lift kit is designed for all Vertical shaft Garden Tractors with Gear Drive or Automatic Drive type transaxles. This manual gives instructions for tractors with **Automatic Drive** type transaxle with the input pulley mounted on the **top** of the transaxle. If your tractor has a Gear Drive transaxle, or an **Automatic Drive** type transaxle with the input pulley mounted on the **side** of the transaxle, use the other manual supplied in this kit.

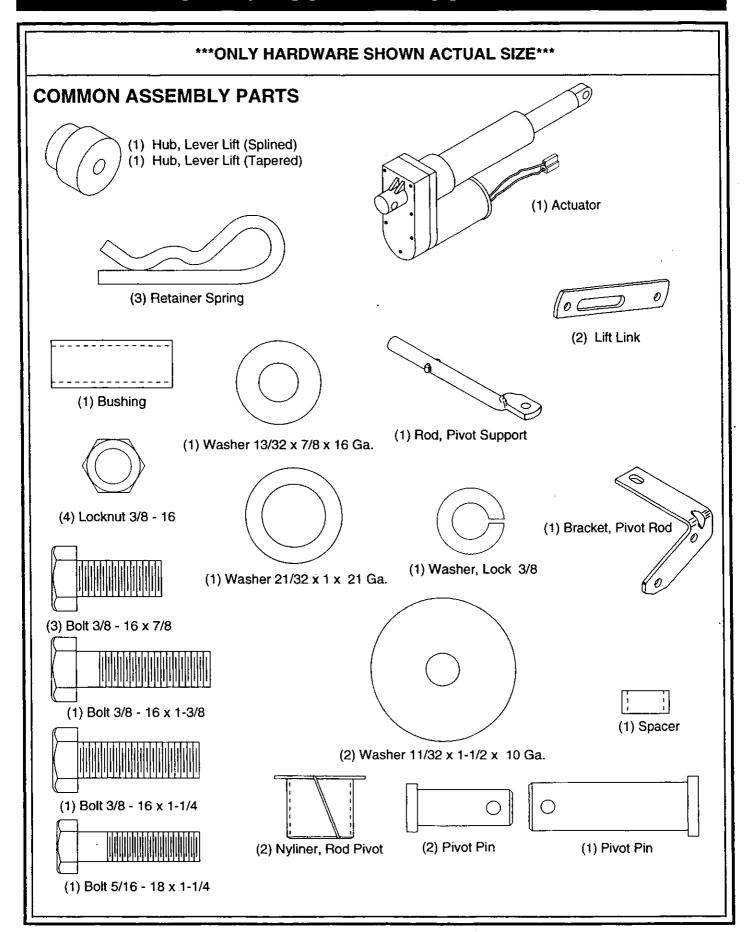
AN AUTOMATIC TRANSAXLE HAS INFINITE SPEED CONTROL POSITIONS, AND GEAR DRIVE TRANSAXLE WILL HAVE RESTRICTED SPEED GEAR SETTINGS.

NOTE: Kit assembly will require all COMMON PARTS and only those parts grouped for your particular type tractor. All remaining parts may be discarded.

TABLE OF CONTENTS SAFETY RULES 2-3 OPERATION MAINTENANCE 12 WARRANTY 3 REPAIR PARTS...... 14-15 CARTON CONTENTS 4-5 PARTS ORDERING/SERVICE Back Page ASSEMBLY 6-12 CARTON CONTENTS ***ONLY HARDWARE SHOWN ACTUAL SIZE*** AUTOMATIC DRIVE ASSEMBLY PARTS (TOP MOUNTED TRANSAXLE INPUT PULLEY) (1) Pivot Tube (2) Pivot Pins (2) Locknut 3/8-16 (5) Bolt 3/8 - 16 x 1 (1) Frame Bracket (1) Pivot Arm (2) Locknut 5/16-18 (2) Bolt 5/16 - 18 x 1 (2) Retainer Spring (1) Bolt 3/8 - 16 x 3-1/4



CARTON CONTENTS CONTINUED



ASSEMBLY

THESE ARE THE TOOLS YOU WILL NEED FOR ASSEMBLY:

- (1) 3/16" Allen Wrench
- (1) 1/2" Wrench
- (2) 9/16" Wrenches
- (1) 9/16" Socket
- (1) 1/2" Socket
- (1) Drive Ratchet
- (1) 3" or longer Extension
- (1) Phillips Screwdriver
- (1) Flat Blade Screwdriver

CAUTION: BEFORE ASSEMBLING ACTUATOR KIT TO TRACTOR:

- · Depress clutch/brake pedal fully and set parking brake.
- · Place gearshift/motion control lever in "NEUTRAL" position.
- Place attachment clutch in "DISENGAGED" position.
- · Turn ignition key "OFF" and remove key.
- Make sure the blade and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug(s) and place wire where it cannot come in contact with plug.

NOTE: When right hand (R.H.) and left hand (L.H.) are mentioned in this manual, it means when you are seated on the tractor, in the operator's position.

NOTE: The illustrations shown in this manual are to aid in the assembly and operation of this kit. The illustrations may not show your particular tractor model.

SET-UP (See Figs. 1,2 & 3)

- Remove mower deck if installed (refer to your "Tractor Owner's Manual" for instructions).
- Remove cap, E-Ring, and washer from axle on both rear wheels.
- Place a suitable size block of wood under drawbar bracket.
- 4. Remove rear wheels.
- Relieve any tension on attachment lift spring by loosening jam nut and adjustment bolt.
- Remove socket head screw from lift lever. Remove lift lever.

NOTE: Use block of wood to assist in lift handle removal.

 Fit the tapered lift lever hub on lift shaft. Secure with 3/8-16 x1-3/8 hex bolt provided in kit and tighten securely.

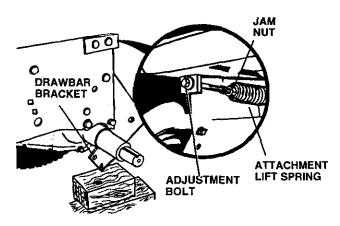


FIG. 1

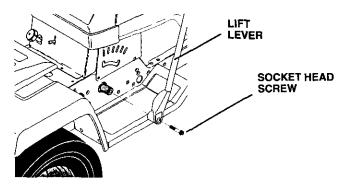


FIG. 2

TAPERED LIFT LEVER HUB

HEX BOLT

PRE-ASSEMBLE FRAME BRACKET, PIVOT TUBE AND ACTUATOR (See Fig. 4)

- Position pivot tube on actuator hub, align holes and insert 2-1/2 in. long pivot pin and secure with retainer spring.
- Position pivot tube in frame bracket, align holes and insert 2-1/2 in. long pivot pin and secure with retainer spring.

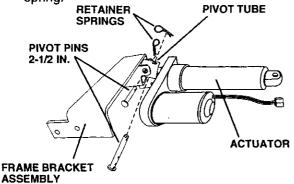


FIG. 4

ASSEMBLE FRAME BRACKET AND ACTUATOR TO TRACTOR (See Figs. 5-7)

 Through opening above the rear drawbar, slide frame bracket and actuator assembly into position between side rails of frame and align mounting holes.

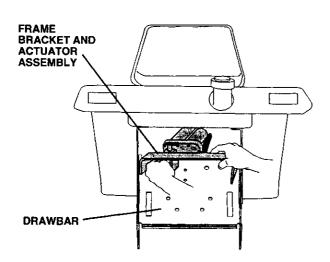
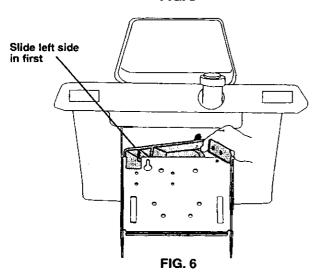


FIG. 5



- On R.H. frame rail install two (2) 5/16-18 x 1 hex bolts, in direction shown, and locknuts. Do not tighten.
- 3. On L.H. frame rail install two (2) 3/8-16 x 1 hex bolts, in direction shown, and locknuts.
- 4. Tighten all four bolts and nuts securely.

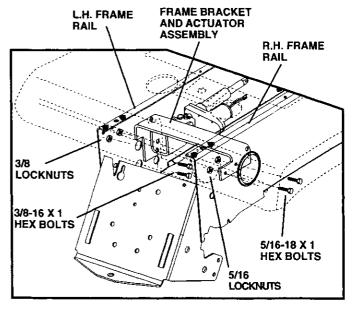


FIG. 7

ASSEMBLE PIVOT ROD BRACKET TO TRACTOR FRAME (See Fig. 8)

- Install pivot rod bracket to inside of R.H. frame rail using two hex bolts 3/8-16 x 7/8 and two 3/8-16 locknuts.
- 2. Tighten hardware securely.

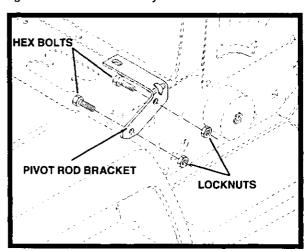


FIG. 8

REMOVE HEIGHT INDICATOR (If equipped) (See Fig. 9)

 Remove height indicator (if so equipped) on LH side of tractor frame. Save all parts except hex bolt for reassembly.

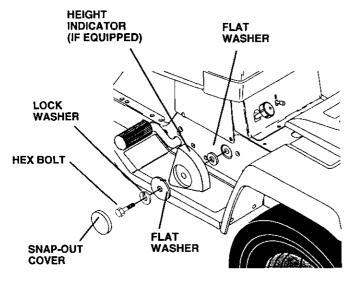


FIG. 9

PRE-ASSEMBLE PIVOT ARM ASSEMBLY (See Fig. 10A)

 Assemble both lift links between sides of pivot arm as shown. Secure with larger pivot pin and retainer spring.

NOTE: Slots in lift links are not centered and must be assembled correctly (see figure below). To assemble hold pivot arm with bent end towards you and downwards. Position lift links so slot is to left and narrow edge is at bottom (see inset).

- Place spacer between the two links and insert smaller pivot pin. Secure with retainer spring.
- 3. Install two nyliners into pivot bracket as shown.

ATTACH ACTUATOR TO PIVOT ARM ASSEMBLY (See Fig. 10B)

- Position pivot arm assembly under tractor in front of actuator.
- Insert actuator arm and bushing between pivot arms as shown. Secure with 3/8-16 x 3-1/4 hex bolt and locknut.

NOTE: Bolt must be assembled in direction shown.

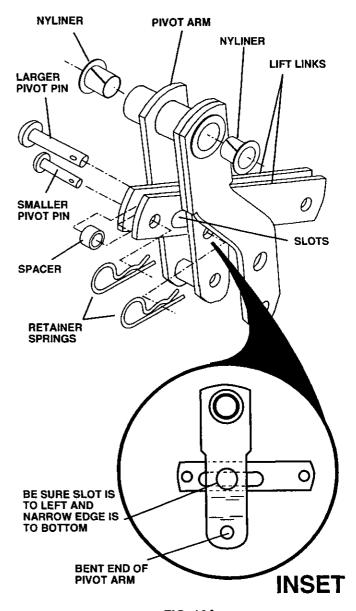


FIG. 10A

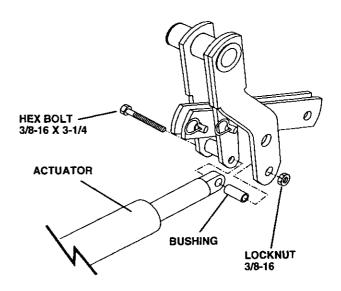
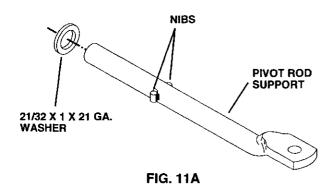


FIG. 10B

INSTALL PIVOT ARM ASSEMBLY TO TRACTOR (See Figs. 11A & 11B)

 Slide 21/32 x 1 x 21 Ga. washer onto pivot rod support up to nibs.



- Insert pivot rod support with washer through nyliners in pivot arm, as shown. Raise entire assembly until nyliners are in line with hole in LH side of tractor frame. Loosely assembly hex bolt 3/8-16 x 7/8 and lock washer through hole in LH side of frame. Do not tighten at this time.
- 3. Assemble flattened end of pivot rod support to underside of pivot rod bracket using hex bolt 3/8-16 x 1-1/4, flat washer and locknut and tighten securely.
- 4. Now tighten previously assembled 3/8-16 x 7/8 hex bolt on LH side of frame.

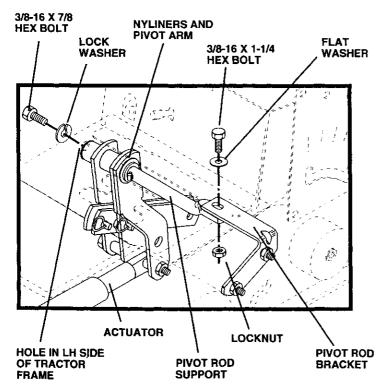


FIG. 11B

ATTACH LIFT LINKS TO LIFT SHAFT BRACKET(See Fig. 12)

 Position one lift link on each side of the lift shaft bracket as shown. Insert smaller pivot pin and secure with retainer spring.

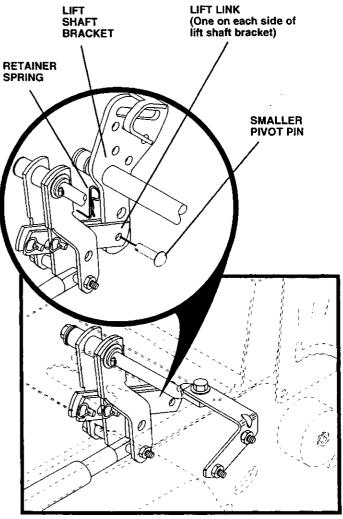


FIG. 12

WIRING ASSEMBLY (See Figs. 13 thru 18)

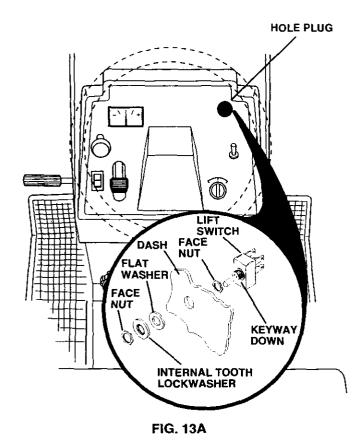


CAUTION: Before working on electrical system, disconnect battery. Reconnect battery when finished.

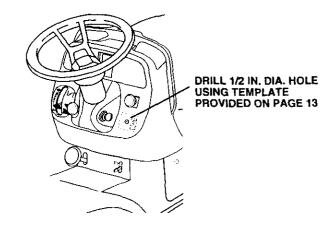
 Locate the black plastic hole plug in upper right or left corner of dash. Remove plug from dash and discard.

NOTE: Some dashes do not have a hole and plug for the lift switch. These are plastic dashes that can be identified by a magnet mounted on top of the dash which holds the hood in place. Using the template provided on page 11 of this manual, drill a 1/2" dia. hole in the dash for mounting the lift switch (See Fig. 13B).

- 2. Install one face nut on lift switch and tighten securely.
- Insert lift switch into dash hole (with Keyway down) from underside of dash. Install flat washer, internal tooth lockwasher and remaining face nut onto lift switch and tighten nut securely.
- 4. Connect ground wire (black single wire) to lift switch.
 - Viewing lift switch from under hood, connect black wire to upper left hand side terminal of switch.
 - Connect opposite end (eyelet) under the right or left upper rear battery support nut. The support nut is located on the inside of the side panel.



PLASTIC DASH WITHOUT HOLE AND PLUG



FIG, 13B

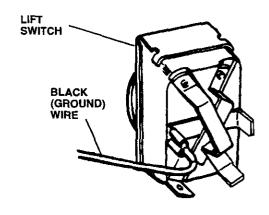


FIG. 14

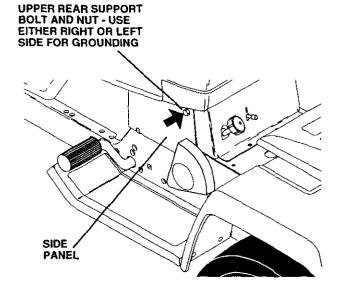


FIG. 15

- 5. Connect lift harness to electric actuator.
 - Connect male connector of harness to female connector of electric actuator.
- Viewing lift switch from under hood connect lift harness to lift switch.
 - Connect yellow wire of lift harness to lower right terminal of lift switch.
 - Connect double red wire of lift harness to lower left terminal of lift switch.
 - c. Connect single red wire to upper right terminal.
- 7. Secure wiring harness.
 - Loosely attach wire tie around pivot rod support and wiring harness.
 - b. Ensure wire routing does not allow wires to rest on sharp edges or near moving parts.
 - c. Tighten wire tie.
- 8. Raise hood, insert female connector of lift harness into male connector of tractor harness.
- Ensure wire routing does not allow wires to rest on sharp edges or near moving parts.

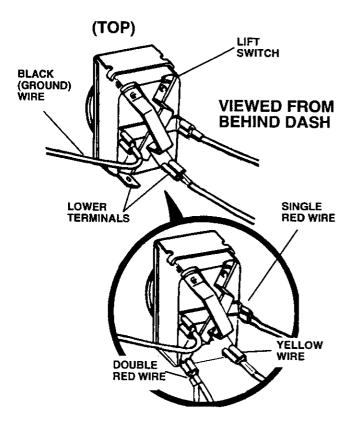


FIG. 16

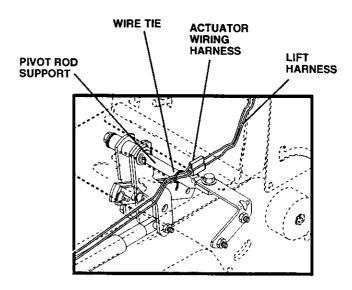


FIG. 17

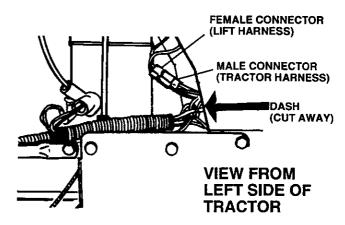
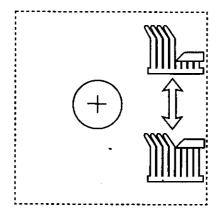


FIG. 18

DRILL TEMPLATE

PLACE OVER HEIGHT OF CUT SYMBOL ON DASH AND DRILL 1/2" DIA. HOLE.



REASSEMBLE HEIGHT INDICATOR (If equipped) (See Fig. 19)

- Reassemble previously removed height indicator adding two spacer washers and replacing old hex bolt with the 5/16-18 x 1-1/4 hex bolt provided with this kit.
- Ensure height indicator is showing correct position of deck. This may be adjusted after final assembly of deck by loosening the hex bolt and moving height indicator to correct position in relation to deck, then retighten hex bolt and replace snap-out cover. Assemble all parts in order shown.

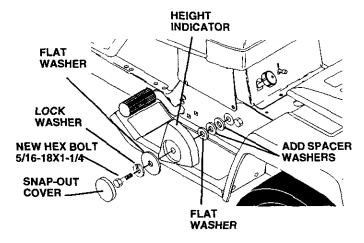


FIG. 19 REASSEMBLE TRACTOR

- Reinstall rear wheel and mower deck, if removed earlier.
- · Remove wood block.
- Reconnect spark plug wire(s).
- Retighten lift assist spring bolt.

OPERATION AND MAINTENANCE

Make sure all bolts and nuts are tight and retainer springs are secure.



CAUTION: Read the Safety Rules carefully before operating your Electric Actuator.

- Ignition switch must be "ON" to operate electric lift actuator.
- After you install lift switch follow markings already on dashboard.
- If you hear a ratcheting sound, you know you are fully raised or fully lowered. Release switch promptly after ratcheting begins.



CAUTION: Lift attachment out of the ground when turning corners, reversing or transporting.

NOTE: The electric actuator is equipped with an overload circuit that will trip when overloaded. Unit will automatically reset after 10 seconds.

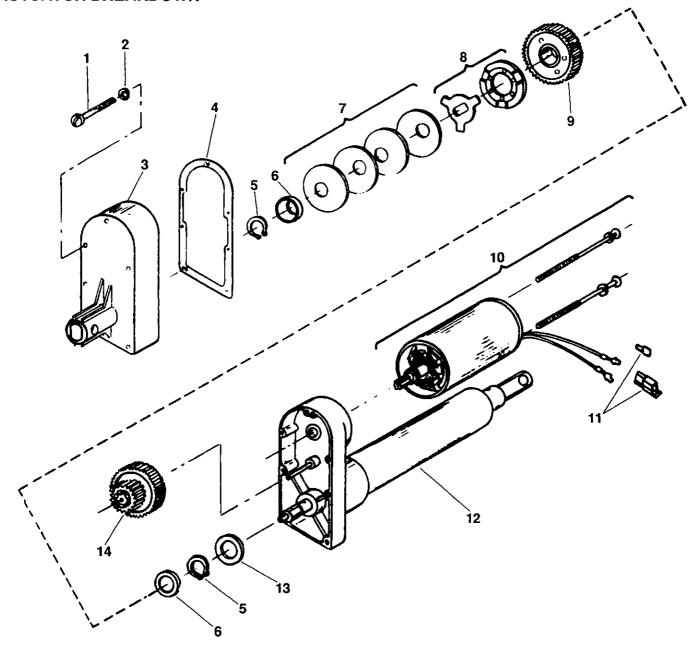
LUBRICATION

- The Electric Actuator is lubricated for normal life. If Actuator is disassembled for repair, upon reassembly lubricate with high performance extreme pressure lubricating grease.
- Apply a light coat of grease to threaded areas and pivot points.

REPAIR PARTS

ELECTRIC ACTUATOR KIT- - MODEL NUMBER 917.242450

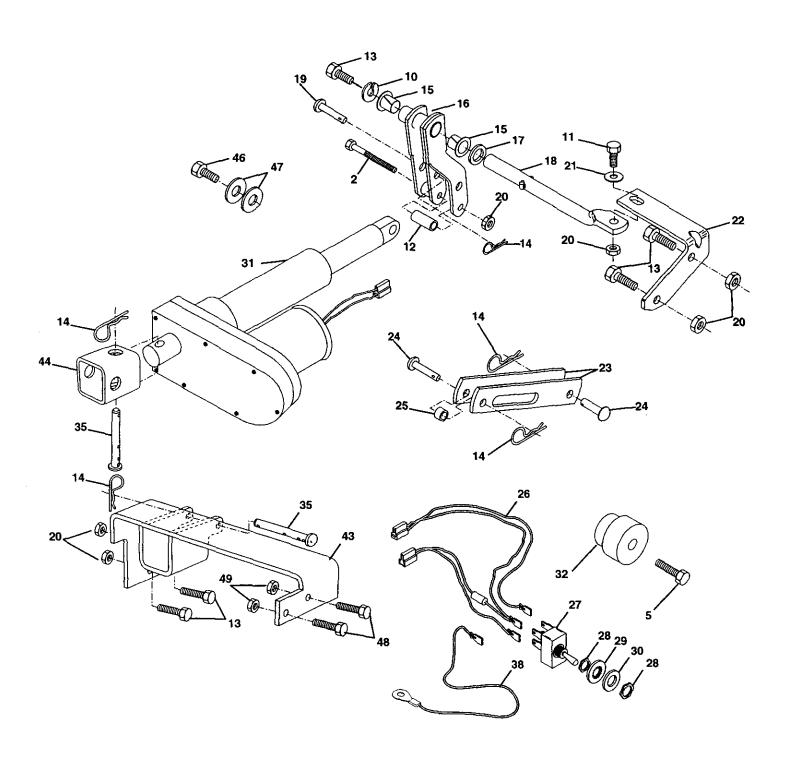
ACTUATOR BREAKDOWN



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1862J	Screw - Sl. Fil. Hd. Mach. No. 10-32	8	674A281	Pawl & RampWasher
		x 1-5/8	9	1859J	Out put Gear
2	1863J	Lockwasher - No. 10	10	1861J	Motor - 12V
3	8331J	Housing Cover	11	673A218	Connector Body Kit
4	1857J	Cover Ğasket	12		Not Serviced Separately Order
5	1865J	Snap Ring			complete actuator Part# 124371X
6	1864J	Retaining Ring	13	1860J	Thrust Washer
7	677A149	Spring Washer (Use 3 or 4 as	14	1858J	Intermediate Gear

ELECTRIC ACTUATOR KIT- - MODEL NUMBER 917.242450

AUTOMATIC DRIVE (WITH TOP MOUNTED TRANSAXLE INPUT PULLEY) PARTS BREAKDOWN



ELECTRIC ACTUATOR KIT- - MODEL NUMBER 917,242450

AUTOMATIC DRIVE (WITH TOP MOUNTED TRANSAXLE INPUT PULLEY) PARTS BREAKDOWN

KEY NO.	PART NO.	DESCRIPTION
2	74780652	Bolt, Hex 3/8-16 x 3-1/4 Grade 5
5	74760622	Bolt, Hex 3/8-16 x 1-3/8
10	10040600	Washer, Lock
11	74760620	Boit, Hex 3/8-16 x 1-1/4
12	5950J	Bushing .384 x 1/2 x 1-1/4
13	74780614	Bolt, Hex 3/8-16 x 7/8
14	4939M	Spring, Retainer
15	139276	Nyliner
16	179199	Arm, Pivot
17	19211621	Washer 21/32 x 1 x 21 Ga.
18	138914	Rod, Pivot Support
19	138948	Pin, Pivot 5/8 x 1-1/2
20	73800600	Locknut 3/8-16
21	19131416	Washer 13/32 x 7/8 x 16 Ga.
22	138912	Bracket, Pivot Rod
23	138905	Link, Lift
24	138947	Pin, Pivot 1/2 x 3/4
25	138909	Spacer
26	127017X	Harness, Lift Kit
27	8984R	Switch, Lift
28	7320R	Nut, Switch
29	7319R	Washer, Lock Int. Tooth
30	19151216	Washer 15/32 x 3/4 x 16 Ga.
31	124371X	Electric, Actuator
32	156816	Hub, Lever Lift (Tapered)
35	179210	Pin, Pivot 2-1/2"
38	9698R	Wire, Ground
43	179201	Bracket, Frame
44	179197	Tube, Pivot
46	74760520	Bolt, Hex 5/16-18 x 1-1/4
47	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
48	74780514	Bolt, Hex 5/16-18 x 7/8
49	73800500	Locknut 5/16-18

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