

INSTALLATION, INSTRUCTIONS

**ELECTRIC LIFT KIT
MFG. NO. 1691531**

*For use with all mounted attachments
on 6500/1800 Series Tractors*

KIT PARTS

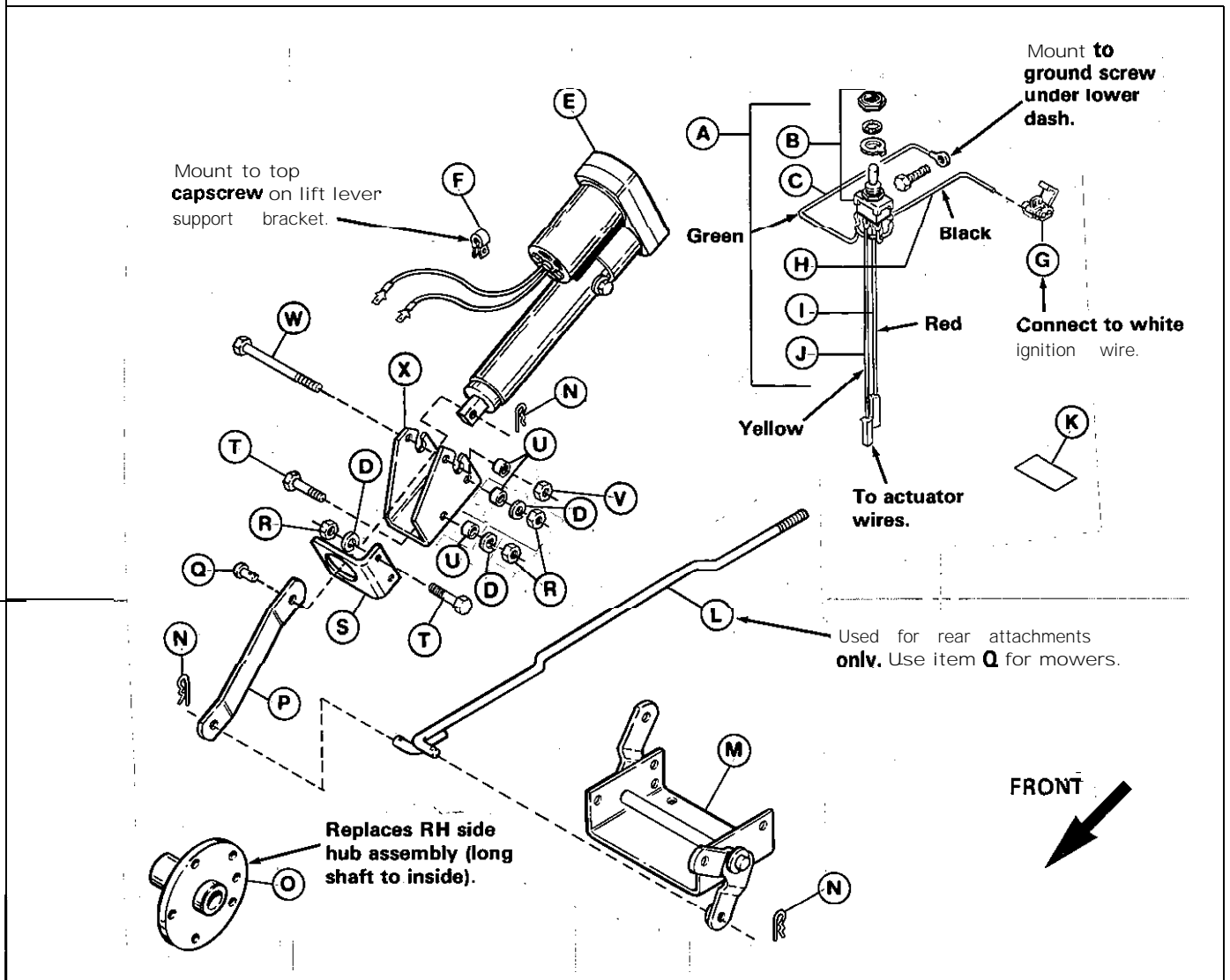


Figure 1. Kit Parts

Item	Description	Part No.	Qty.	Item	Description	Part No.	Qty.
A	Harness Assy., Elec. Lift	1702082	1	N	Pin, Quick	1960033	3
B	8 Switch, Electric	171883	1	O	Hub Assy., Wheel	1701914	1
C	Wire, Switch to Ground	171868	1	P	Link, Actuator	1701881	1
D	Lockwasher	1817366	4	Q	Pin, Pivot	102004	2
E	Power Lift Assy.	1667764	1	R	Nut, Hex. 5/16-18	1917372	4
F	Clamp, Insulated	826818	1	S	Bracket, Actuator, Front	1701878	1
G	Connectors, Self-Stripping	1606761	1	T	Capscrew, Hex Hd., 5/16-18x 1	1921333	4
H	Wire, Switch to Ignition	1702075	1	u	Spacer	1665699	3
I	Wire, Switch to Lift	1702077	1	V	Nut, Hex Lock, 5/16-18	1823362	1
J	Wire, Switch to Lift	1702076	1	W	Capscrew, Hex Hd., 5/16-18 x 4-1/2	1925892	1
K	Decal, Lift Switch	1669833	1				
L	Rod Assy., Lift	1701680	1				
M	Arm Assy., lift	1701808	1				

A WARNING

Before installing the kit or making any adjustments: disengage the PTO; set the parking brake; stop the engine and remove the key.

A WARNING

When disconnecting the battery cables, always disconnect the negative cable first. When connecting cables, always connect the negative cable last. The positive terminal can easily be shorted to the frame with a tool if this is not done.

! WARNING

Do not touch any wires or electrical components, such as the solenoid, unless the battery cables are disconnected.

INSTALLATION

1. Park tractor on flat, level surface. Turn tractor off. Disengage PTO, and allow all moving parts to stop. Engage the parking brake.
2. Disconnect the battery cables and position away from terminals.

! WARNING

Do not drain fuel tank when engine is hot, as spilled gasoline may ignite. Insure clamps grip hose firmly over filter after installation.

A WARNING

Handle gasoline with care. It is highly flammable. Use an approved gasoline container.

3. Drain the fuel tank as follows.
 - a. Place an approved gasoline container below the fuel filter.
 - b. Use a pliers to spread the fuel filter clamps and slide away from filter. Do not spread more than necessary.
 - c. Pull hoses off filter and allow gasoline to drain into container.
4. Raise rear right-hand side of tractor up and place jackstand(s) under transaxle.

- 5 Remove rear right-hand wheel assembly.
- 6 Remove five capscrews from wheel assembly and secure kit hub assembly (0, figure 1) to wheel. Do not install on tractor.
- 7 Prepare template (provided on last page) by cutting out all dashed areas. Use this template to drill five 1 1/32" holes in wrapper.
- 8 Install rear actuator bracket (X, figure 1 or A, figure 2) with two capscrews (T, figure 1), spacers (U), lockwashers (D), and nuts (R). Install bolts from outside in, putting spacers between bracket and wrapper. Lockwashers and nuts are installed on inside of wrapper. Do not install the 4-1/2" capscrew (W) at this time.
9. Install front bracket (C, figure 2) with bottom capscrew (B) only. Install capscrew from inside out. Secure with lockwasher (D, figure 1) and nut (R).

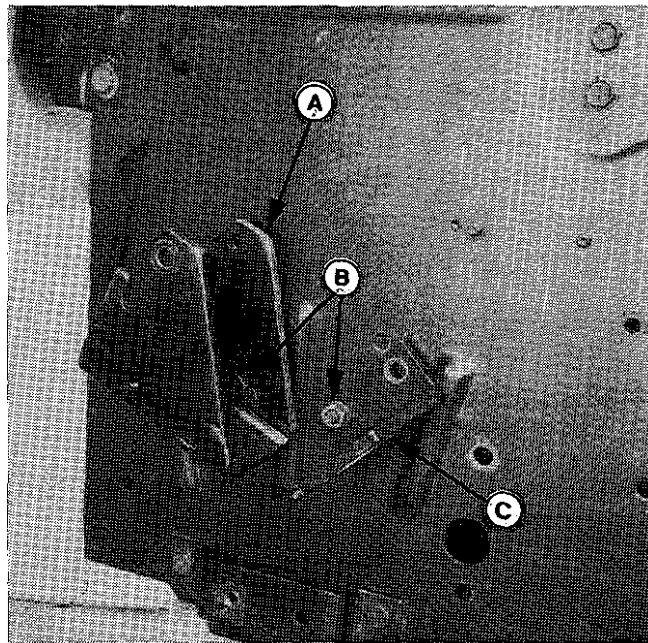


Figure 2. Bracket Installation

- A. Rear Bracket
- B. 1" capscrews
- C. Front Bracket

10. Insert cylinder (A, figure 3) through brackets as shown in figure 3. Make sure lugs (B) fit securely into rear bracket slots.
11. Install top 4-1/2" capscrew (C) on rear bracket (with spacer between bracket and wrapper) and secure with locknut (V, figure 1). Install top 1" capscrew (D, figure 3, from inside wrapper) in front bracket and secure with lockwasher and nut.

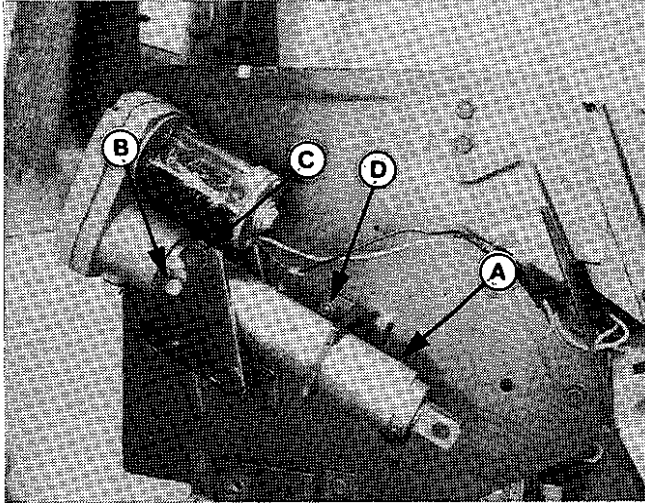


Figure 3. Cylinder **Installation**

- A. Cylinder
- B. Lugs**
- C. **4-1/2" Cap screw**
- D. 1" Cap screw** (from inside out)

12. Remove the manual lift lever as follows:
 - a. Remove the two cap screws and lockwashen (B, figure 4). Leave the retaining nuts in place.
 - b. Remove the lever by removing four **cap screws**, lockwashers and nuts (A). Save the hardware for reinstallation.

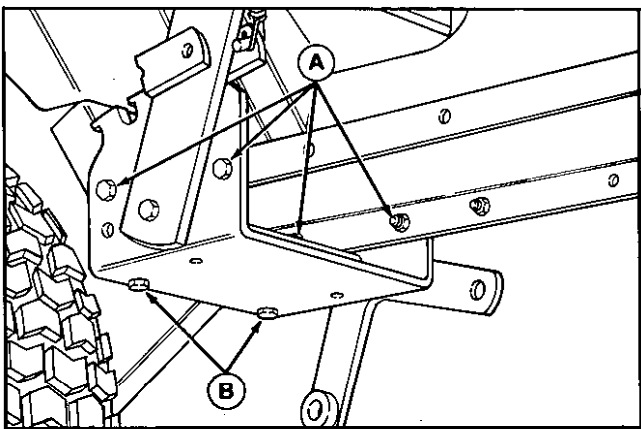


Figure 4. Manual Lift Lever
 A. Cap screws, Lockwashers and Nuts
 B. Cap screws and Lockwashers

- c. Remove lift lever bracket support (B, figure 5). Retain hardware for **reinstallation**.

13. Install new electric lift. lever bracket (A) reusing existing hardware (mounted in same location).

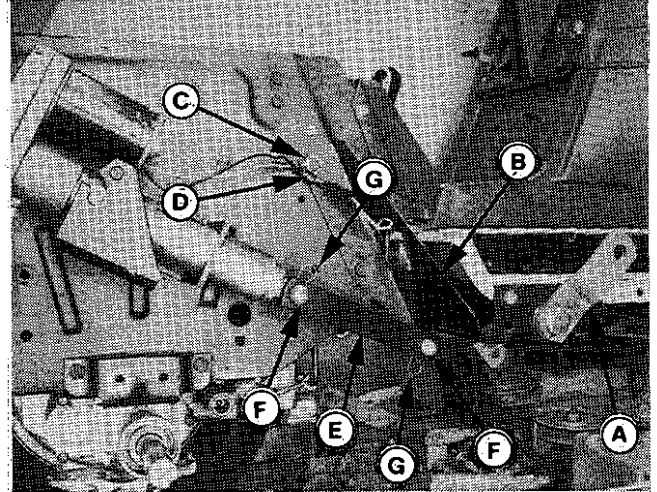


Figure 5. Electric Lift Lever

- A. **Lift** Lever Bracket
- B.** Bracket Support
- C. **Cap screw**
- D.** Wire Clip
- E.** Actuator Link
- F.** **Clevis** Pin
- G.** Spring Clip

14. Reinstall bracket support (B), reusing existing hardware. In top **cap screw** (C), install clip (F, figure 1 or D, **figure 5**). Clip and wiring are shown installed in figure 5.
15. Mount actuator link (E) between cylinder and new lift lever as shown in figure 5. Install **clevis pins** (F) from outside and spring clips (G) on inside. When alignment is correct, tighten all mounting hardware.

NOTE

For rear-mounted attachments, lift rod (L, figure 1) must be installed. Refer to last section of this instruction sheet.

SWITCH INSTALLATION

16. A **31/64"** hole must be drilled in the lower dash to mount the switch (see figure 6). Measure two inches down from upper dash and draw a line. Then, measure three inches from right side of lower dash and draw a vertical line. Drill the hole at point **where** these two lines meet (figure 6).

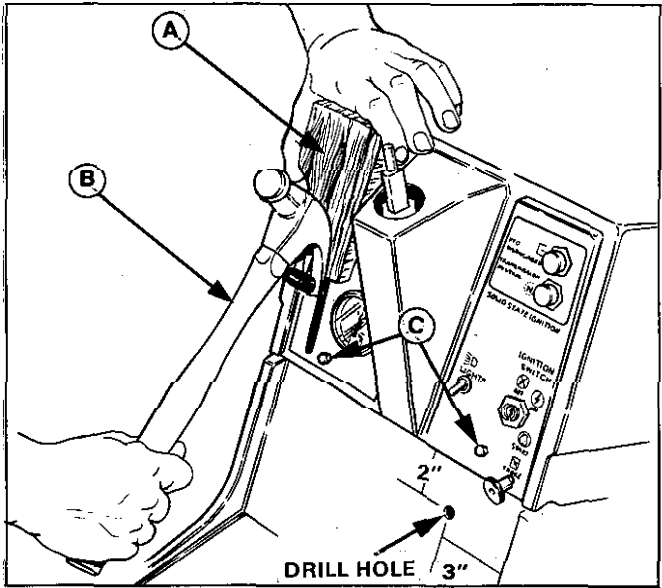


Figure 6. Tractor Dash

A. Wood Block: B. Hammer C. Screws

17. Pry off the throttle control knob by using a claw hammer and block of wood as shown in figure 6.
18. Remove throttle cable from left-side engine clamp. Loosen **capscrew** and washer that secures throttle cable to intake manifold. Note pinch mark on cable before removing from under capscrew. Cable must be reinstalled in same position for correct RPM settings. Remove cable from engine.
19. Remove nut (A, figure 7), flatwashers (B) and **capscrew** (C) securing steering wheel to shaft. Pull **steering wheel off shaft.**

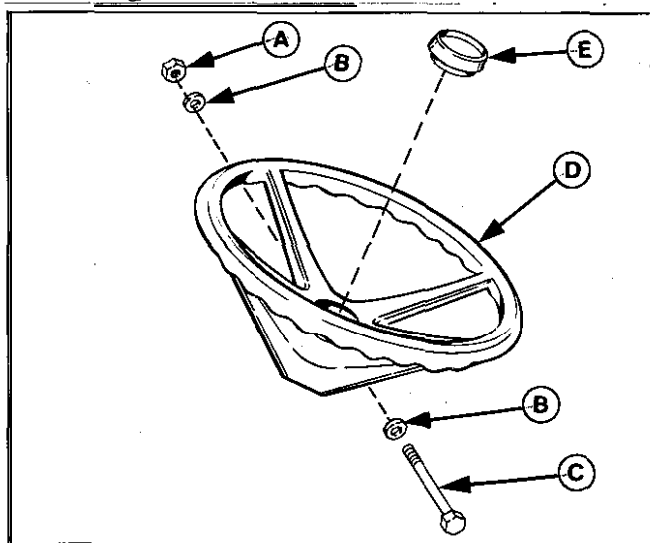


Figure 7. Steering Wheel

A. 5/16 Locknut
 B. 1/4 Flat Washers
 C. 5/16 x 3-1/2 Capscrew
 D. Steering Wheel
 E. Cap

20. Remove the upper and lower dash hardware as follows.
 - a. Remove the **two** screws (C, figure 6) and washers.
 - b. Raise the hood and loosen the two screws, plain washers, dished washers and nuts from front side of dash (see figure 8).
 - c. Remove four **capscrews** and washers securing lower dash.
 - d. Both dashboards can now be lifted up for access to wiring.
21. Remove the ignition switch by removing nut. Retain lockwasher for reinstallation.
22. Reach thru the hole in top of lower dash and install the switch (A, figure 1). Position the switch so that slot in threads is up. From outside the dash, place the washers (B) on switch, aligning tab washer in slot in threads. Install and tighten the nut securely.
23. Connect black switch wire to white wire from ignition switch with connector (G, figure 1) provided in kit.
24. Lift up lower dash and locate taptite screw securing **two** black ground wires. Route green wire (C, figure 1) from switch and ground under this screw.
25. Route the yellow and red wires from switch down behind the steering shaft. Wires should follow wiring harness and be routed cut lower dash cutout, underneath shift quadrant panel and thru square, hole for seat latch. Refer to figure 5. Wires should then **be** attached to wire clip (D, figure 5).
26. Connect the yellow wire to yellow wire from cylinder. Connect the red wire to the red wire from cylinder.
27. This completes installation of the kit. Make the following test to see if installation is correct.
 - a. Reinstall ignition switch with **lockwasher and** nut.
 - b. Connect the **battery** cables - negative cable last.
 - c. Turn the ignition switch to ON.
 - d. Flip the **lift** switch up, the lift arm should go back.
 - e. Flip the lift switch down, the lift arm should go forward.
 - f. If switch does not check OK, disconnect the battery cables, Then go thru the instructions and make sure all connections are tight.
 - g. Reconnect the battery cables to perform above test again. Before proceeding with following instructions, disconnect the battery cables.
28. Reinstall lower dash with four capscrews and washers. Position the upper dash **over** the fuel tank. Install the original hardware (figure 8).

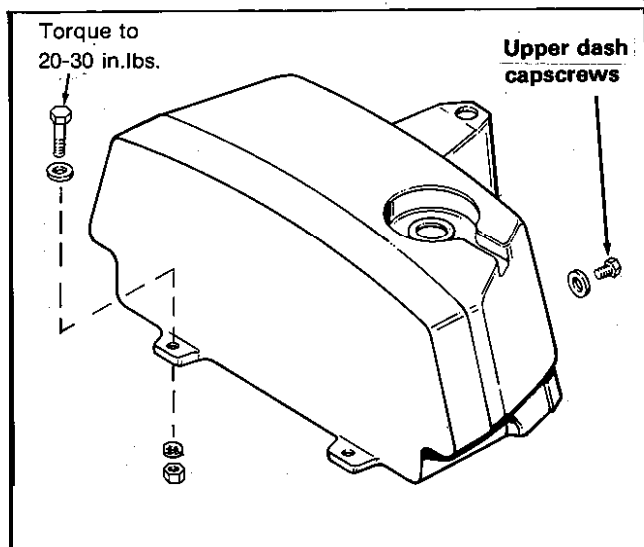


Figure 8. Upper Dash

29. Align the steering wheel and push down onto shaft.
30. Reinstall **capscrew** (C, figure 7), flat washers, and locknuts to secure steering wheel. Torque nut to 10 ft. lbs.
31. Reconnect throttle cable to engine and position under manifold **capscrew** and washer. Cable must be in original position for correct RPM setting. Tighten **capscrew** and place cable in left-side engine clamp.
32. Push throttle control knob back on the lever. Tap knob with a hammer to seat.
33. Make sure the fuel lines are connected securely to the fuel filter with the clamps.
34. Install the rear right-band wheel assembly.
35. Raise rear of tractor up and **remove jackstand(s)**
36. Connect the battery cables • negative cable last.
37. Apply the decal to the right side of the switch.
38. This completes the installation.

REAR-MOUNTED ATTACHMENTS ■ LIFT ROD INSTALLATION

Lift rod (L, figure 1) is used only for rear mounted attachments. To install, remove bottom clevis pin (Q) and install lift rod (A, figure 9) to actuator link(B) and lift arm (C). Secure with clevis pins (D) as shown.

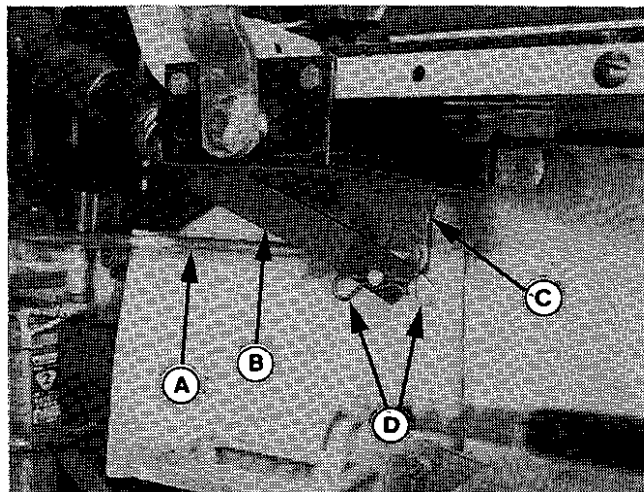
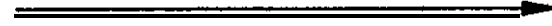


Figure 9. Lift Rod

- A. Lift Rod
- B. Actuator Link
- C. Lift Arm
- D. Spring Clips

TEMPLATE - Electric Lift Kit 1691531

FRONT OF TRACTOR



REAR
BRACKET

Drill 11/32" dia. holes
in 5 places.

FRONT
BRACKET

Align with holes in right
hand side of axle support
wrapper - two places
(remove bolts and reinstall
if necessary).

Align with holes in right
hand side of axle support
wrapper - two places
(remove bolts and reinstall
if necessary).

CUTOUT (TEMPLATE ONLY)
ON DOTTED LINE.

