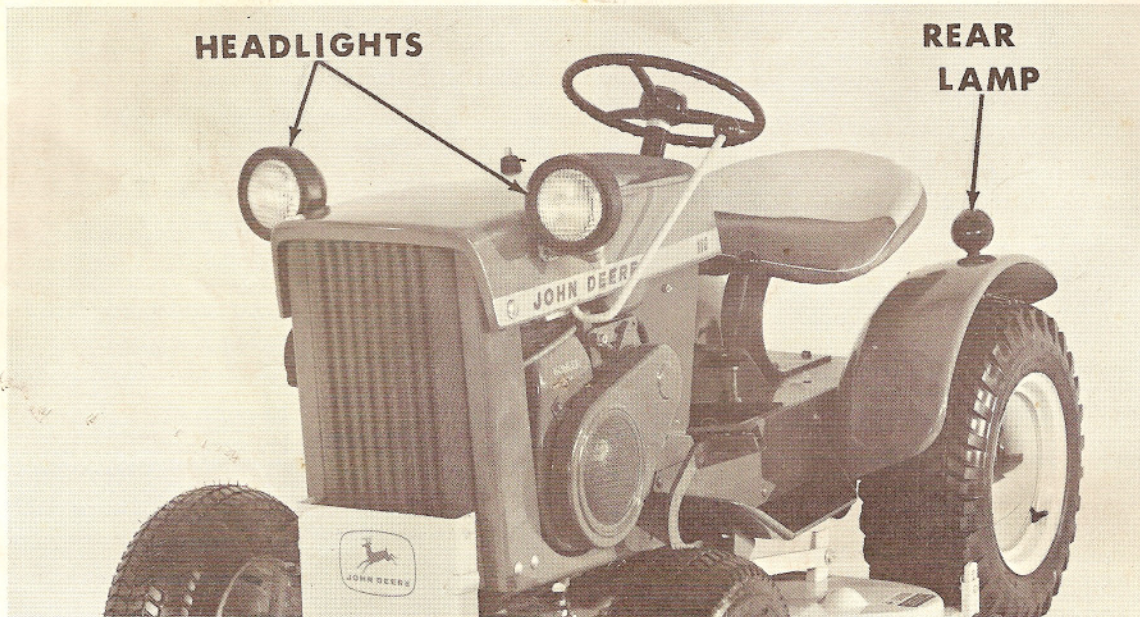


INSTRUCTIONS FOR INSTALLING AM 30974 HEADLIGHTS AND  
REAR LAMP ON 110 AND 112 LAWN AND GARDEN TRACTORS



Form M 43-766

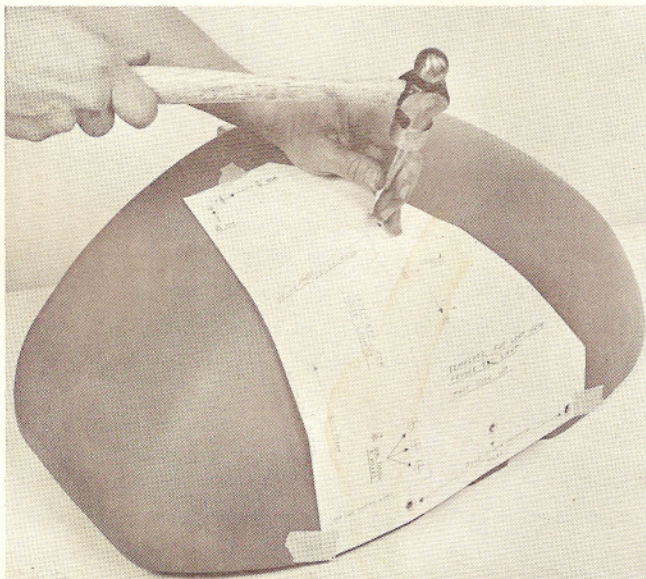


**NOTE:** In the event these lights are to be installed on 110 Tractors with Serial No. 3550 or before, read ahead pages 6 and 7 of this instruction sheet so that wiring changes may be progressively followed.

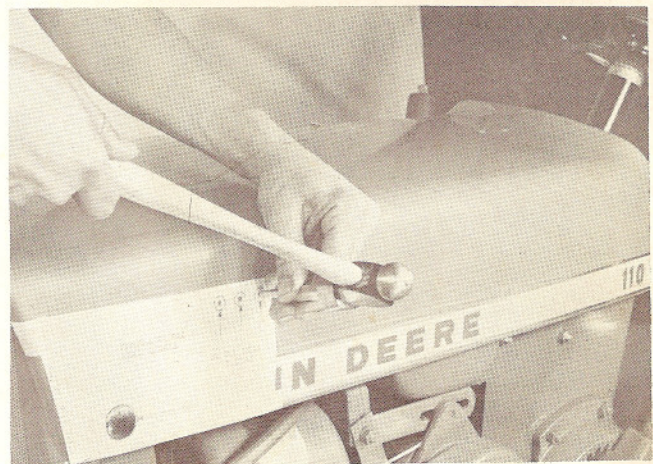
For easy installation of headlights and rear lamp, remove front grille, battery, steering wheel, left rear wheel, and left rear fender.

TEMPLATE FOR REAR LAMP

TEMPLATE FOR HEADLIGHTS



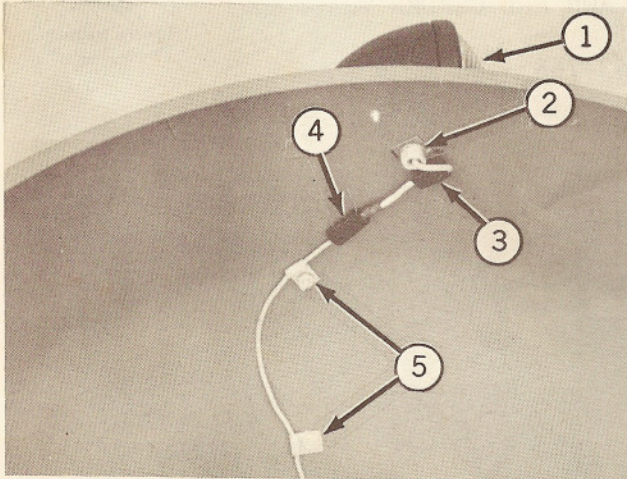
Tape template for rear lamp to rear left fender in location shown on template. Center punch and drill (4) holes to sizes indicated on template.



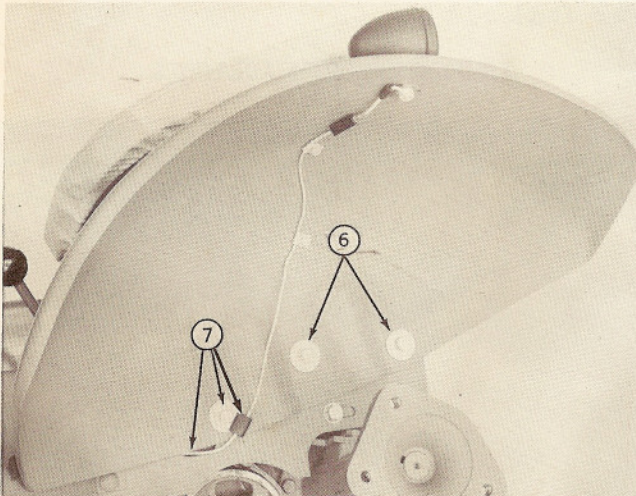
Cut out, on dotted lines, the template for headlights. Tape template to hood as instructed. Center punch and drill (3) holes to sizes indicated on L.H. side of hood. Reverse template and follow same procedure on R.H. side of hood.



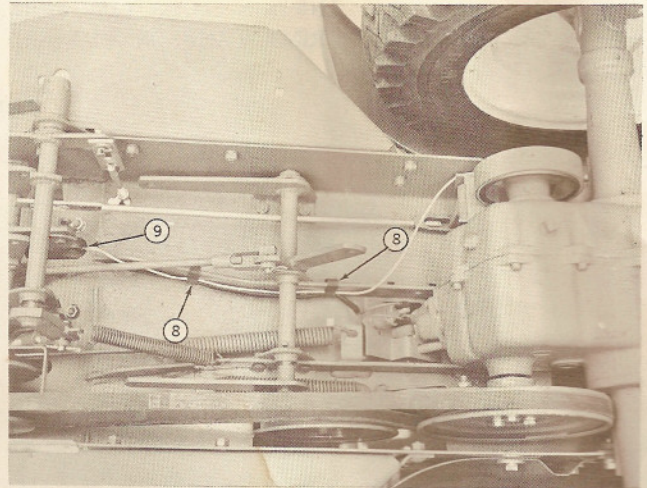
## REAR LAMP



1. Position rear lamp using holes drilled in rear fender.
2. Insert lamp wire through hole in (J) clamp, lock washer, and nut. Tighten nut on threaded section of lamp.
3. Place wire in coated section of (J) clamp and close up clamp to hold wire.
4. Attach rear lamp wire to wiring connector on green wire.
5. Attach green wire to fender using two conduit clamps, as shown.

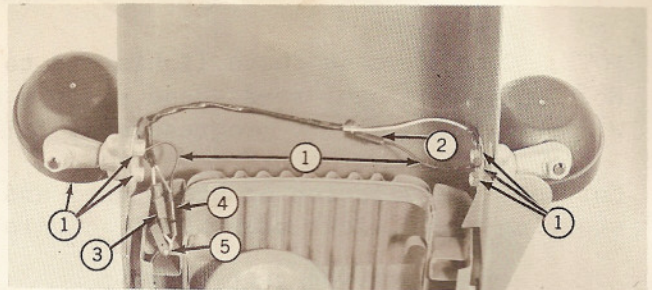


6. Attach fender loosely to tractor with (2) rear mounting bolts.
7. Slip rear lamp wiring lead between fender and frame and assemble (J) clamp over front mounting bolt. Clamp wire tightly into (J) clamp and tighten fender mounting bolts.



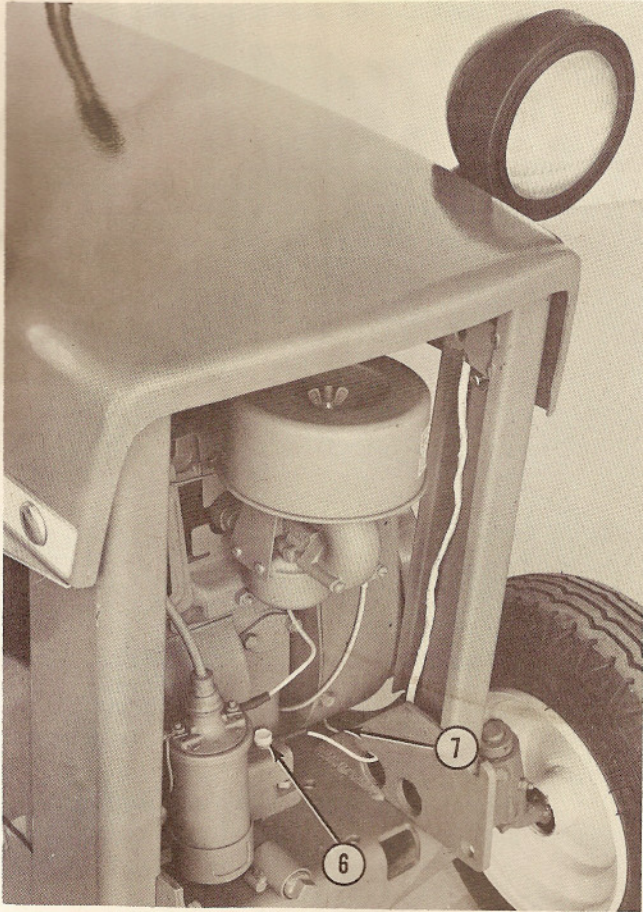
8. Attach lead to underside of tractor using the same clips holding neutral start wire.
9. Slide lead up through large slot hole and continuing up between the battery and instrument panel base to light switch.

## HEADLIGHTS

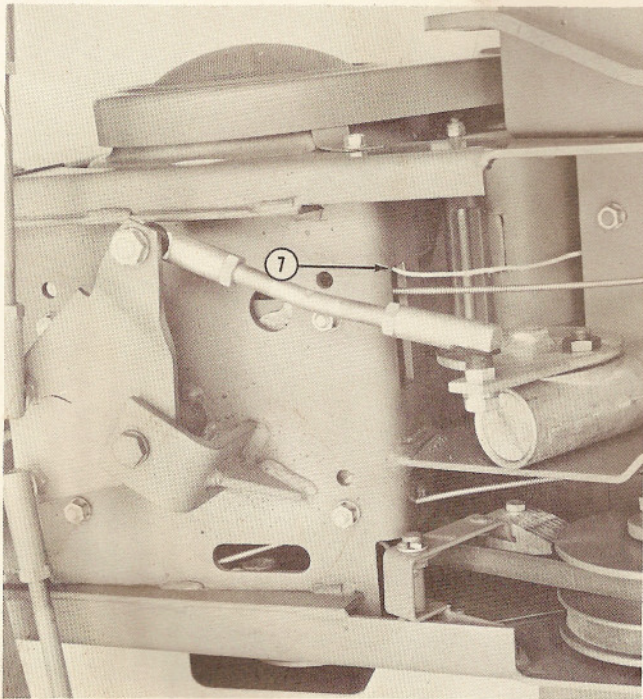


1. Hold headlight in position. Slide back-up plate over lead from headlight and turn in front  $3/8 \times 5/8$ -inch self-tapping screw a few turns. Place  $13/32 \times 13 \times 16$ -inch plain washer on rear self-tapping screw, then eyelet of ground wire, insert screw through back-up plate and turn into headlight. Tighten self-tapping screws.
2. Plug R.H. headlight wire into primary harness lead.
3. Connect ground wires of primary harness to secondary harness.
4. Plug lead wires of primary harness and L.H. headlight into secondary harness.
5. Fasten secondary harness to hood support with rubber strap so that harness follows grille support as shown.

HEADLIGHTS - Continued

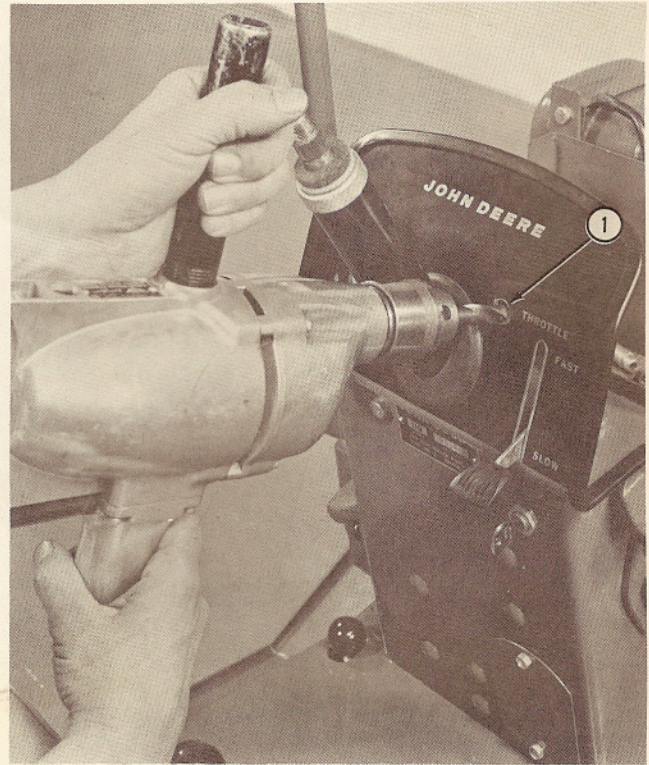


6. Attach ground wire to coil mounting bracket bolt. Remove any excess paint from bolt and bracket to insure a proper ground.



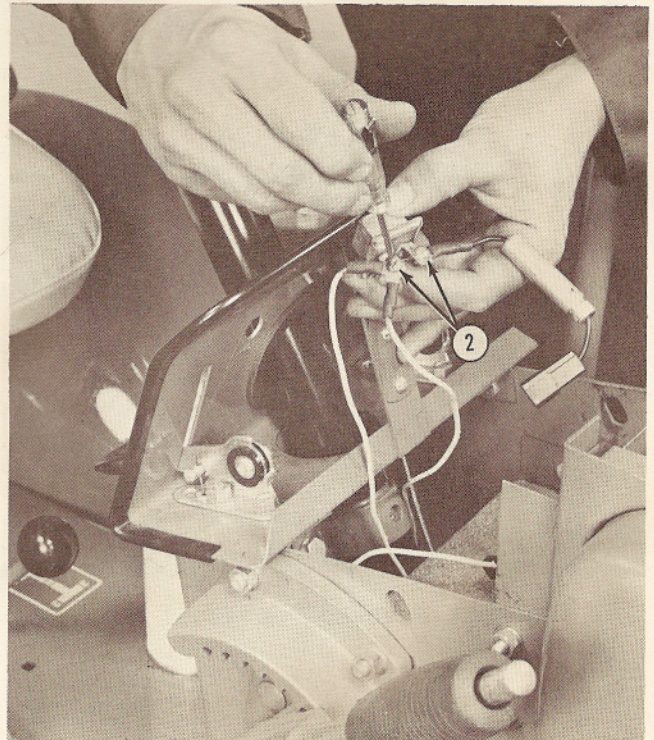
7. Pull lead wire under engine and through opening in rear of base. Continue wire up between the battery and instrument panel base to light switch.

SWITCH



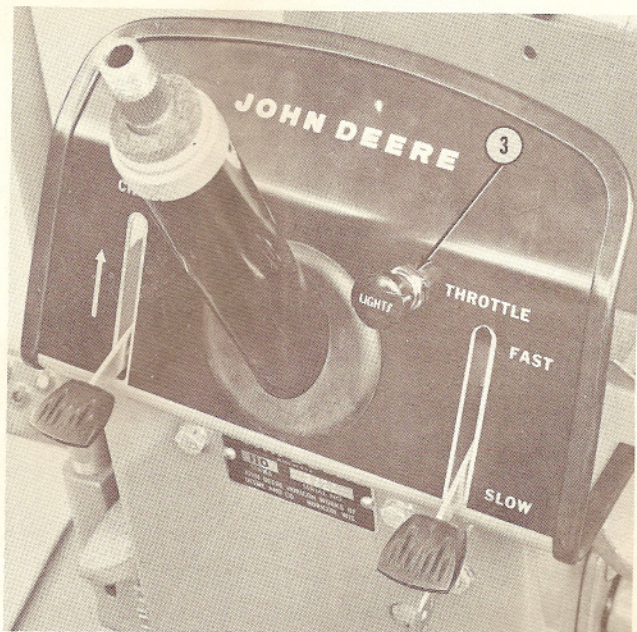
(For 110 Tractors SN 65000 and below)  
1. Center punch and drill lead hole for 17/32" dia. drill to accommodate assembly of light switch.

(For 110 Tractors SN 65001 and above and 112 Tractors)  
Remove plug buttons.

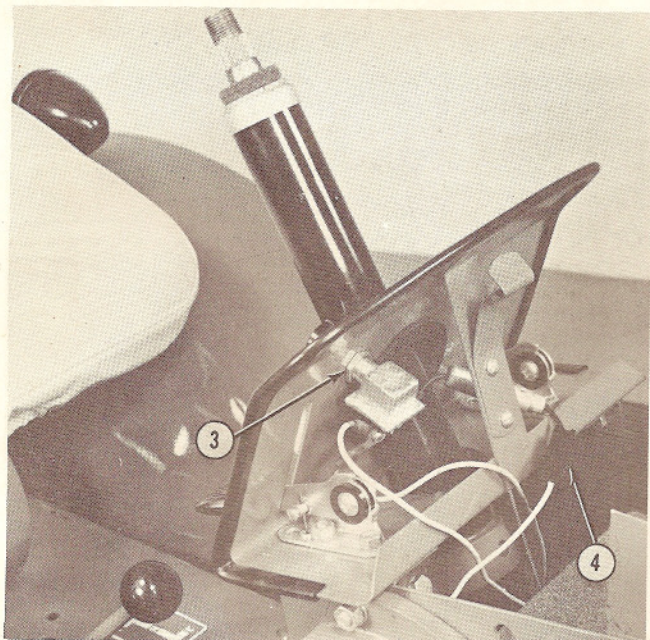


2. Assemble headlight and rear lamp leads to outside terminal and fused lead to inside terminal of light switch.  
(3)

SWITCH - Continued

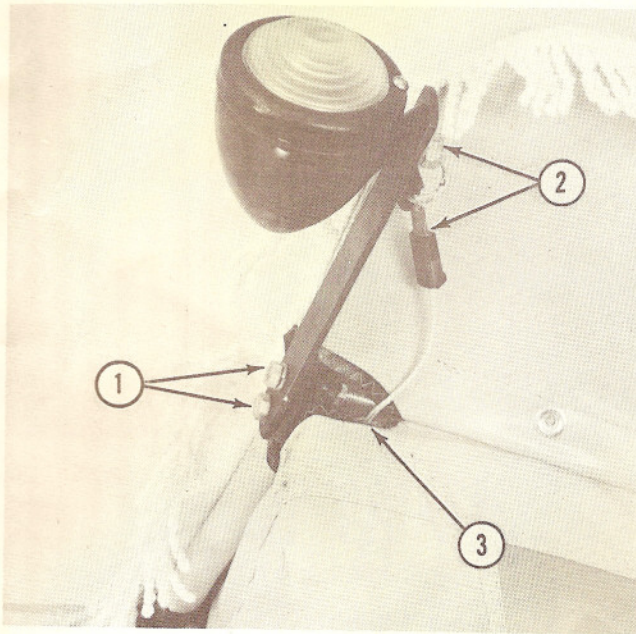


3. Loosen set screw and remove knob from light switch. Assemble switch to panel with terminals down. Turn nut on front side of panel all the way down and use nut in back of panel to lock tight. Replace knob so that at least 1/32" gap remains between the knob and nut in the pushed-in position.



4. Connect assessor pigtail to fused lead.

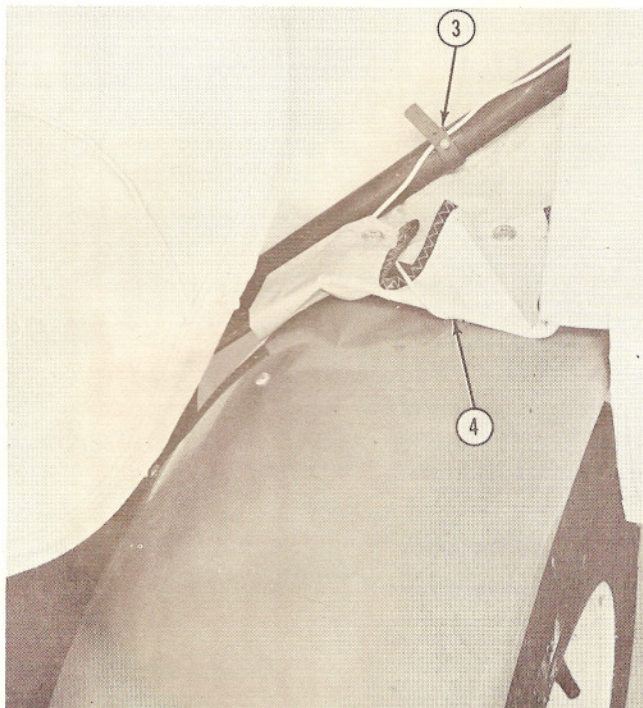
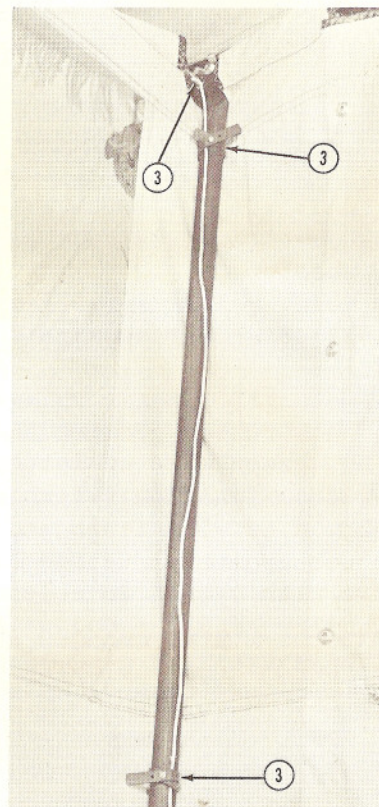
REAR LAMP EXTENSION  
FOR WEATHER ENCLOSURE



1. Assemble bracket to top left-hand corner of enclosure.

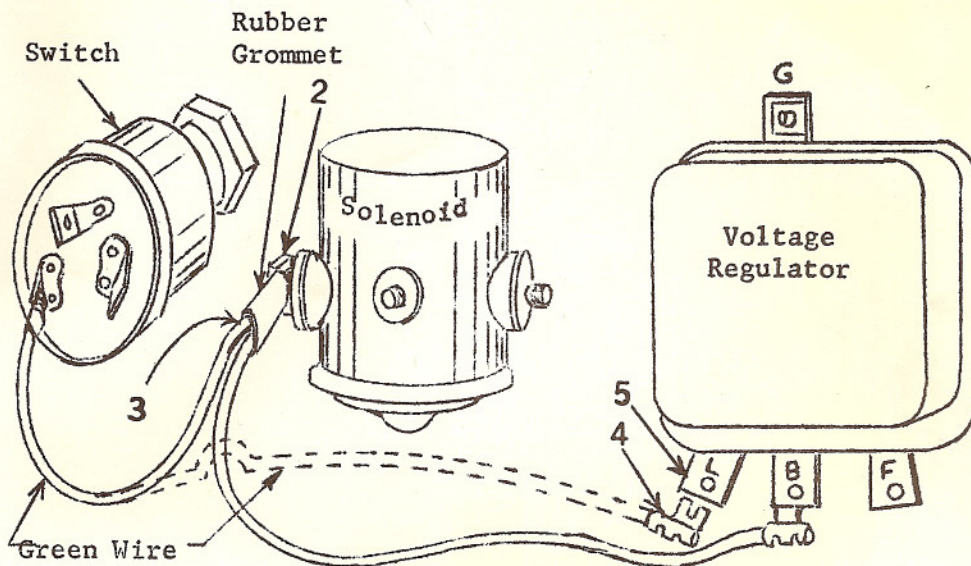
2. Assemble rear lamp to bracket. Connect rear lamp wire to wiring lead extension.

3. Pull lead wire through opening under top corner of enclosure and fasten to frame with 3 rubber straps.



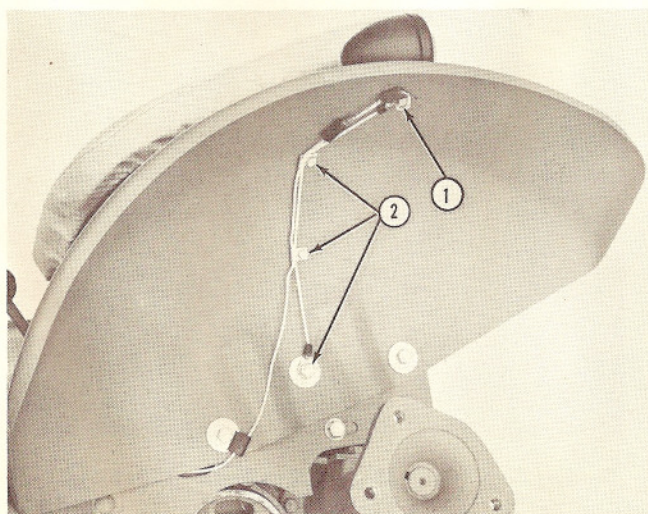
4. Complete the circuit through rear lamp hole in fender making connection with wiring lead on underside of fender.

WIRING CIRCUIT CHANGE THROUGH IGNITION SWITCH  
110 TRACTOR SN ( -3550)

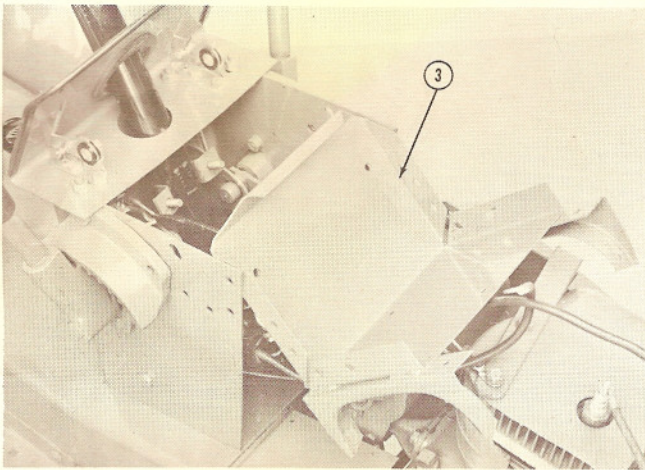


1. Remove battery, gas tank and steering wheel.
2. Remove nut and green wire from solenoid.
3. Push back rubber grommet and cut off the one green wire at large connector from ignition switch. Be sure stub end of wire is pushed back under rubber grommet. Reassemble green wire with eyelet to solenoid.
4. Install flag connector on end of green wire which was cut off at (3).
5. Connect green wire with new flag connector (4) to the "L" terminal of the voltage regulator.

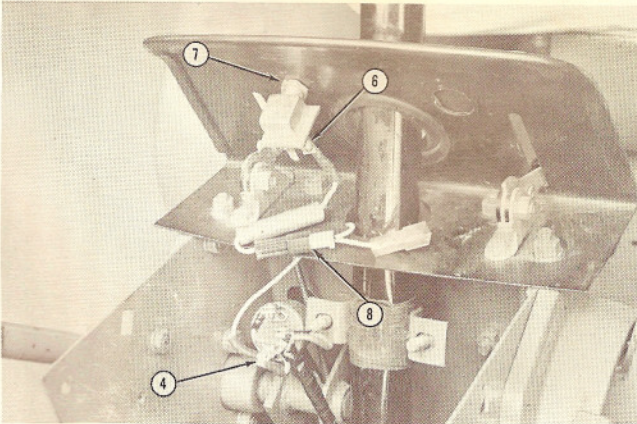
WIRING CHANGES REQUIRED TO INSTALL LIGHTS AND CIGARETTE  
LIGHTER ON 110 TRACTOR SN ( -3550)



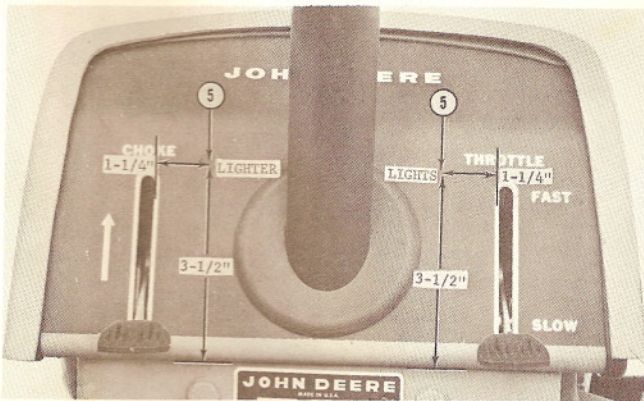
1. Assemble one end of ground wire, (J) clamp, lock washer and nut to threaded lamp bracket on underside of rear left fender.
2. Clamp ground wire with lead wire into (2) conduit clips and attach opposite end of ground wire to fender center mounting bolt.



3. Remove bolts so that battery base may be tipped forward, making possible easy assembly.



4. Remove nut holding ignition switch to panel and bring switch out so lead wire may be attached to "I" or white wire terminal. Be sure lead wire is pulled through between steering column and panel base.



(For 110 Tractors SN 65000 and below)  
5. Locate and drill  $17/32$ " hole for light switch. If cigarette lighter is to be installed, drill a  $7/8$ " hole. Locate as shown.

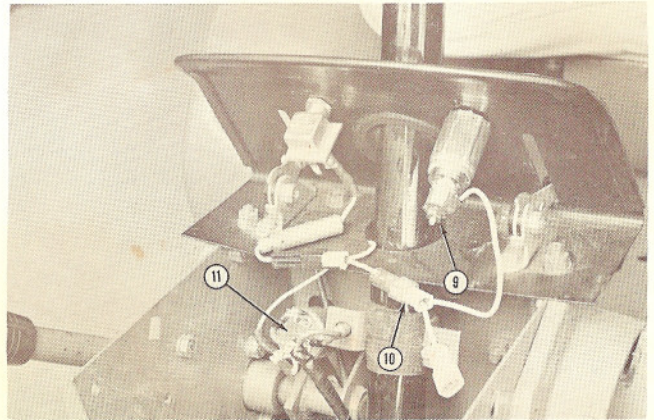
(For 110 Tractors SN 65001 and above and 112 Tractors)

Remove plug buttons.

6. Attach fused lead wire to light switch terminal.

7. Install switch in panel.

8. Connect fused lead wire to pigtail assembly.



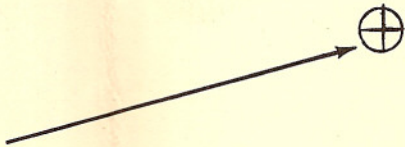
9. Install cigarette lighter in panel and attach lead wire to lighter terminal.

10. Connect lead to light switch pigtail.

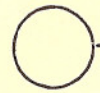
11. Replace ignition switch, fold wiring back under panel and reassemble parts removed.

Be sure switch is reassembled to panel with drain hole down and with terminals in position shown.

DRILL 2  
7/32" DIA. HOLES



**TEMPLATE FOR REAR LAMP**  
**This Side Up**



LEFT REAR FENDER MOUNTING  
HOLES

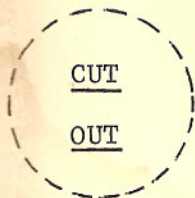
**TEMPLATE FOR**  
**HEADLIGHTS**

THIS SIDE UP FOR LEFT HAND SIDE  
USE REVERSE SIDE FOR RIGHT HAND SIDE



13/32" DIA. DRILL  
3 HOLES

CUT ON DOTTED LINES



HOOD PIVOT

BOTTOM EDGE OF HOOD

FRONT EDGE OF HOOD





3/8" DIA. DRILL HOLE

DRILL HOLE

5/32" DIA. DRILL HOLE



FRONT EDGE OF HOOD

**TEMPLATE FOR HEADLIGHTS**

THIS SIDE UP FOR LEFT HAND SIDE  
USE REVERSE SIDE FOR RIGHT HAND SIDE

CUT  
CUT

7/32" DIA.

DRILL 2 HOLES

