

Light Kit Assembly Instructions



Z44 & Z52 w/S/N 472620+

Manual No. 357-178M

Z48, Z54, ZSR54, ZSR60

ZXT54, ZXT60, ZT60, ZT72, ZT60i, & ZT72i

Before You Start



When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

IMPORTANT: Before you begin, read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

Your Light Kit is exclusively designed for your Land Pride Zero Turn Mower models Z44 & Z52 with S/N 472620+, Z48, Z54, ZSR54, ZSR60, ZXT54, ZXT60, ZT72, ZT60i, and ZT72i. Please read these installation instructions and your mower's Operator's Manual thoroughly before beginning. Especially read information relating to safety concerns. Also included in the Operator's Manual is important information on operation, adjustment, troubleshooting, and maintenance for this attachment (some manual sections do not apply to all accessories).

A separate Parts Manual for your Zero Turn Mower is available free of charge at www.landpride.com or can be purchased from your nearest Land Pride dealer. Have the model and serial number of your Zero Turn Mower handy when placing an order.

Manual Part Numbers:

Z44 & Z52 (S/N 472620 - 526170)

- Operator's Manual 357-044M
- Parts Manual 357-044P

Z44 & Z52 (S/N 526171+)

- Operator's Manual 357-187M
- Parts Manual 357-044P

Z48 & Z54

- Operator's Manual 357-344M
- Parts Manual 357-344P

ZSR54 & ZSR60

- Operator's Manual 357-344M
- Parts Manual 357-388P

ZXT54 & ZXT60

- Operator's Manual 357-721M
- Parts Manual 357-721P

ZT60 & ZT72

- Operator's Manual 357-103M
- Parts Manual 357-103P

ZT60i & ZT72i

- Operator's Manual 357-398M
- Parts Manual 357-398P

General Information

These assembly instructions apply to the following Light Kit Accessory listed below:

357-160A Light Kit, Z-Mowers

Tools required:

- Safety Glasses & Work Gloves
- 3/8" & 9/16" box end or open end wrench
- Magnetic Phillips screwdriver
- Standard blade screwdriver

Further Assistance

Your dealer wants you to be satisfied with your new Light Kit. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure he is aware of any problems you may have and that he has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lp servicedept@landpride.com

Assembly Instructions

Assembly Instructions

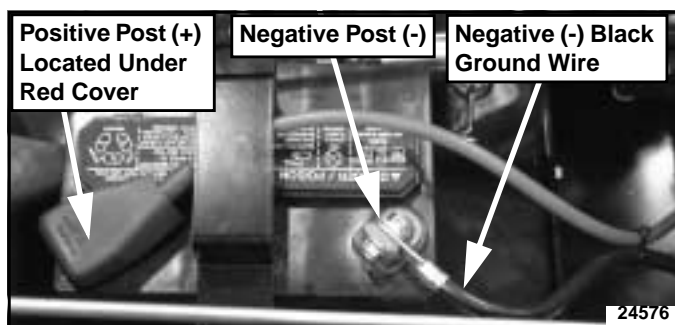
A detailed listing of parts for the accessory kit is provided on page 8. Use this list as a checklist to inventory parts received. Please contact your local Land Pride dealer for any missing hardware.

Initial Preparations

1. Park mower on a flat surface and move control levers fully out. Set park brake on all models except Z44 & Z52 with S/N 472619 and below.
2. Turn off engine and remove ignition key.
3. Raise seat deck fully up.

Refer to Figure 1:

4. Disconnect negative ground wire (black wire) from the battery's negative post (-). Place ground wire in a location where it cannot touch the battery posts.



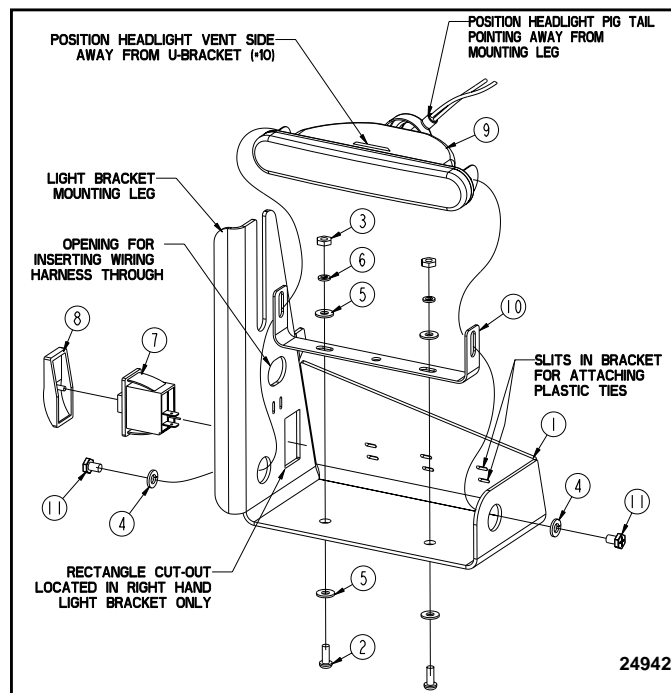
Remove Ground Wire From Battery (ZT Battery Shown)
Figure 1

Light Switch & Headlight

Refer to Figure 2:

Installation of headlights is easier if installed to light brackets upside down as shown in Figure 1. The right and left hand light brackets are identified by the rectangle cut-out in the mounting leg. Right hand light bracket shown in Figure 1 has a rectangle cut-out and the left hand light bracket does not.

1. Remove machine screws (#11), lock washers (#4), and u-bracket (#10) from headlight (#9).
2. Attach u-bracket (#10) to right hand light bracket (#1) with two #10-24 x 1/2" black Phillips head machine screws (#2), four #10 flat washers (#5), two #10 lock washers (#6), and two #10-24 hex nuts (#3).
3. Center u-bracket in light bracket frame and tighten nuts (#3).
4. Position headlight with vent side facing away from the u-bracket and pig tail pointing away from light bracket mounting leg.
5. Attach headlight to u-bracket with Phillips/hex head machine screws (#11) and lock washers (#4). Tighten screws.
6. Insert headlight switch (#7) into the rectangle hole with terminals down when oriented as shown in Figure 1.



(Right Hand Light Bracket (#1) Shown Upside Down)
Right Headlight Installation

Figure 2

7. Install switch actuator (#8) with curved end of actuator down when oriented as shown in Figure 1.
8. Repeat steps 1 to 5 for left hand light installation.

Wiring Harness Routing

Refer to Figure 3 on page 3:

1. Locate and identify the three plastic loom ends.
 - a. End "A" has one connector for attaching to the right headlight and two female terminals for attaching to the headlight switch.
 - b. End "B" has one connector for attaching to the left headlight.
 - c. End "C" has two female/male terminals for attaching to the hour meter and two male terminals for connecting to the existing hour meter wiring.

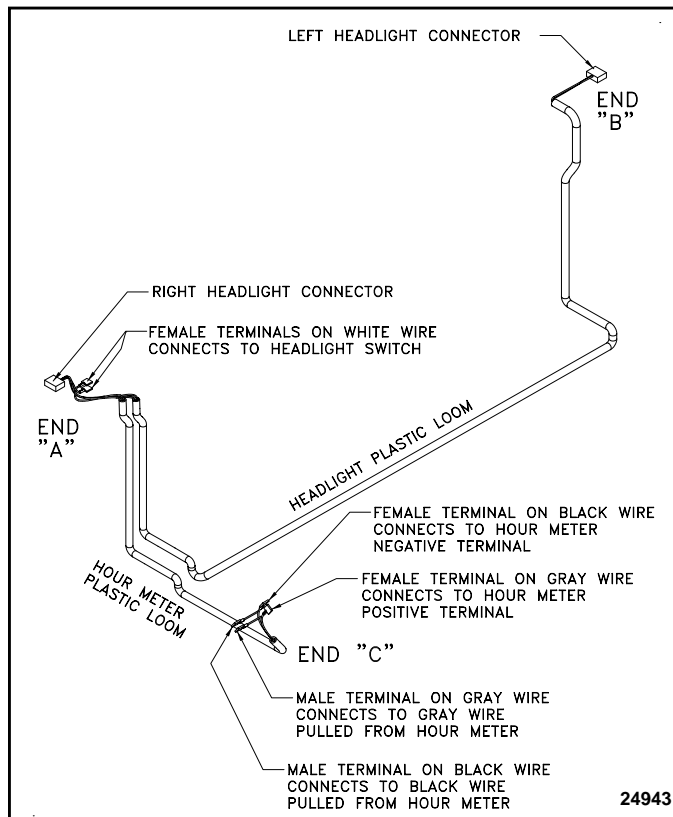
Wire Routing in Right Headlight Bracket

1. Insert end "A" (Figure 3) through wire harness opening (Figure 1) in right hand light bracket.

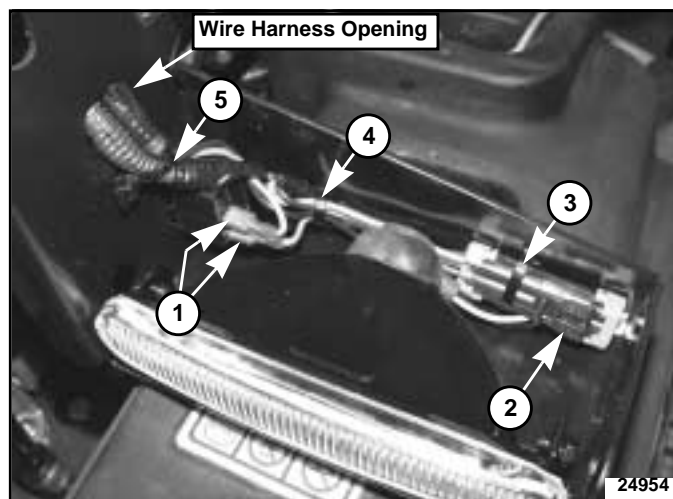
Refer to Figure 4 on page 3:

2. Attach female terminals to headlight switch (#1).
3. Attach headlight connector (#2) to headlight.
4. With smooth side of plastic tie (#3) turned out, secure connector (#2) using slits in back of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**
5. With smooth side of plastic tie (#4) turned out, secure wiring harness using slits in back of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**

Assembly Instructions



**Wiring Harness
Figure 3**



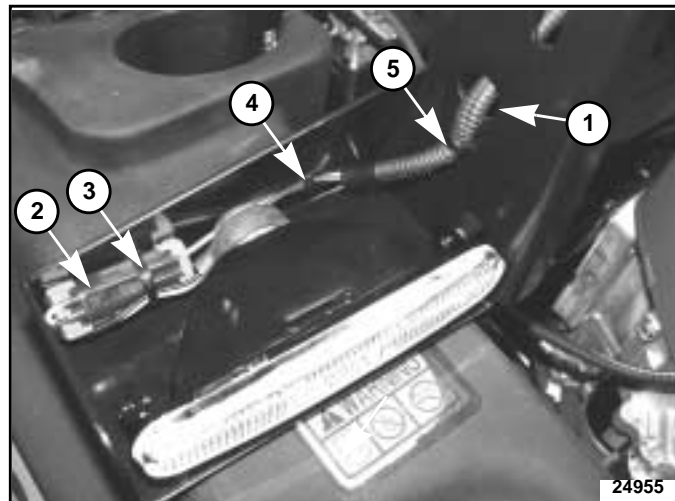
**Right Hand Light & Switch Wiring
Figure 4**

6. With smooth side of plastic tie (#5) turned out, secure wiring harness to mounting leg using slits in leg of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**
7. Verify wiring harness does not interfere with headlight and light switch; then draw all three plastic ties up tight.

Run Wire Harness to Left Headlight Bracket

Refer to Figure 3:

Run end "B" of headlight loom along back side of seat to hole in left light bracket. Actual placement of loom and plastic tie instructions will be later.



**Right Hand Light & Switch Wiring
Figure 5**

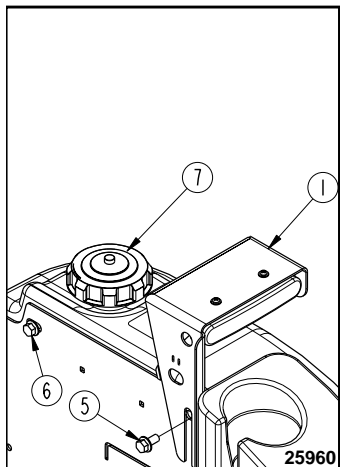
Wire Routing in Left Headlight Bracket

Refer to Figure 5:

1. Insert end "B" through wire harness hole (#1) in left mounting bracket.
2. Attach headlight connector (#2) to headlight.
3. With smooth side of plastic tie (#3) turned out, secure connector (#2) using slits in back of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**
4. With smooth side of plastic tie (#4) turned out, secure wiring harness using slits in back of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**
5. With smooth side of plastic tie (#5) turned out, secure wiring harness to mounting leg using slits in leg of light bracket. Draw plastic tie up loosely. **Do not tighten plastic ties.**
6. Verify wiring harness does not interfere with headlight; then draw all three plastic ties up tight.

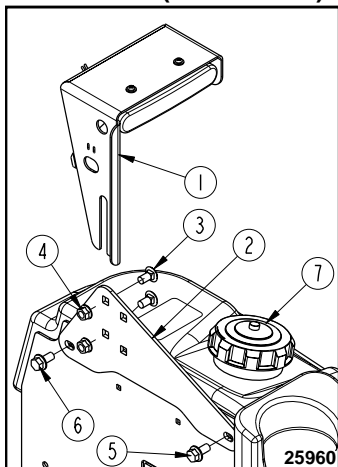
Assembly Instructions

Method #1



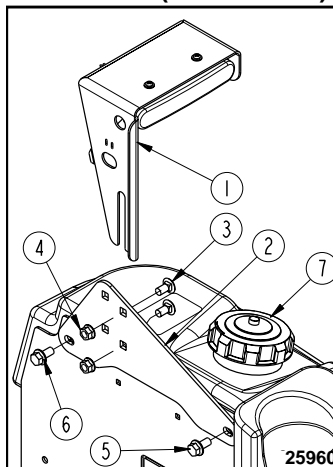
**All Models
With Fill Cap at the Back
Figure 6**

Method #2 (Back Holes)



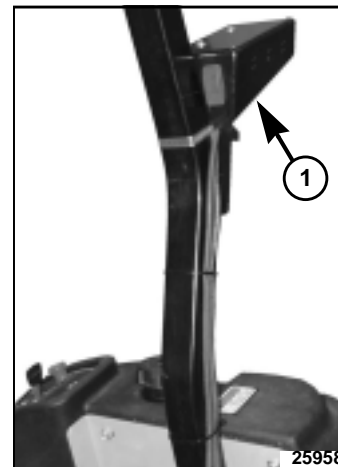
**Z & ZSR Models W/O ROPS &
With Fill Cap in the Middle
Figure 7**

Method #2 (Front Holes)



**ZXT & ZT Models W/O ROPS
& With Fill Cap in the Middle
Figure 8**

Method #3



**All Models
Equipped With ROPS
Figure 9**

Attach Left & Right Light Brackets

There are three methods for attaching the light kit.

Method #1: Refer to Figure 6. Mount light bracket (#1) in front of fuel cap (#7). This method is used only when the fill cap is located at the back of the fuel tank.

Method #2: Refer to Figures 6 & 7. Mount light bracket (#1) behind fuel cap (#7) on an adapter plate. This method is used only when the fill cap is located in the middle of the fuel tank.

Method #3: Refer to Figure 9. Mount light bracket (#1) on the ROPS. The method is used on all models equipped with ROPS.

Method #1 - Light Bracket Mounted in Front

Refer to Figure 10:

1. Loosen fuel tank mounting bolt (#5). Do not remove.
2. Slip right hand light bracket (#1) behind bolt (#5) and push down until end of slot is reached and bent lip is resting on top of side panel as shown.

IMPORTANT: Do not over tighten screws (#5). Damage to fuel tank can occur if overtightened.

3. Make sure front edge is aligned parallel to mating surface and the bent lip is resting on top of the side panel. Tighten screw (#5) to 15-20 ft-lbs. of torque.
4. Repeat steps 1 to 3 above to mount left light bracket.

Method #2 - Light Bracket Mounted in Back

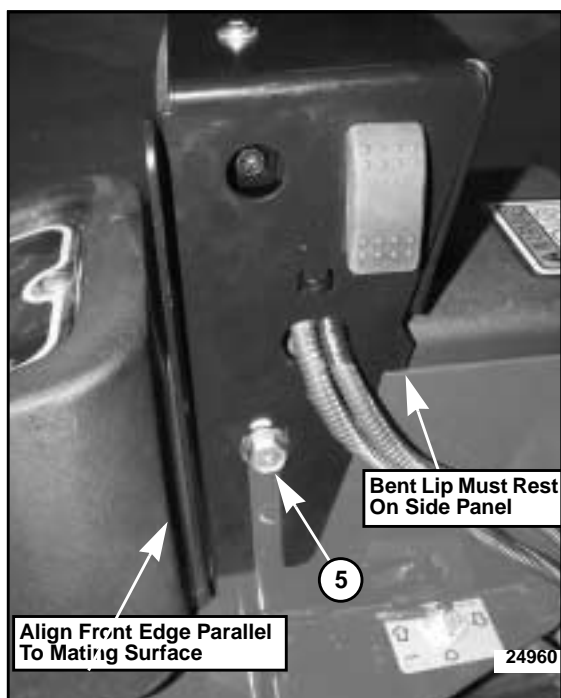
Refer to Figure 11:

1. Orient adapter plates (#2) with narrow end pointing towards the front of the mower.

IMPORTANT: There are four square holes in each adapter plate (#2). See Figures 6 & 7.

- The back two square holes are used when mounting light kit to Razor Z & ZSR Mowers.
- The front two square holes are used when mounting the light kit to ZXT, ZT & ZTi Mowers.

2. See important note above to determine which two square holes are used. From the fuel tank side, insert two 3/8" -16 x 3/4" round head square neck bolts (#3) through the square holes. Screw on 3/8" flange lock nuts (#4) by hand until they don't turn easily.
3. On the right hand side of the mower, remove 3/8" screw (#5) and discard.
4. Attach front end of adapter plate (#2) to mower frame with 3/8" x 3/4" GR2 hex flange serrated screw (#5). Draw screw up snug, do not tighten.
5. Remove 3/8" screw (#6) and discard.



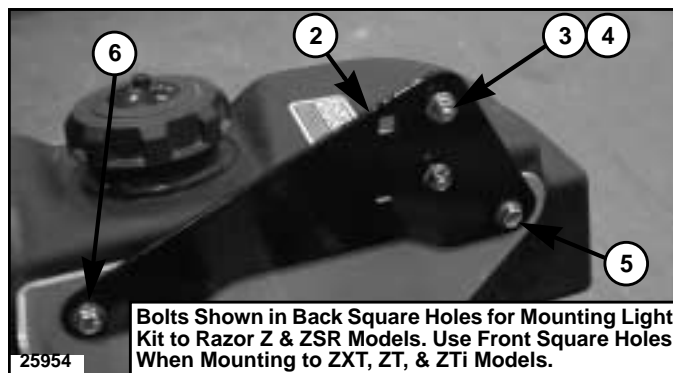
**Attach Light Bracket in Front of Fuel Cap
Figure 10**

Assembly Instructions

- Attach back end of adapter plate to mower frame with 3/8" x 3/4" GR2 hex flange serrated screw (#6).

IMPORTANT: Do not over tighten screws (#5 & #6). Damage to fuel tank can occur if overtightened.

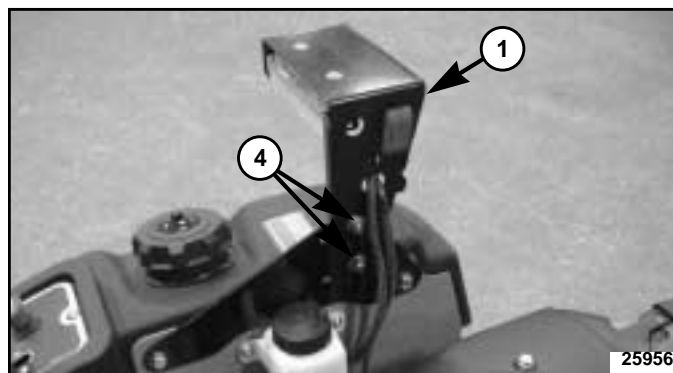
- Tighten screws (#5 & #6) to 15-20 ft-lbs. torque.



Attach Adapter Plate (Right Side Shown)
Figure 11

Refer to Figure 12:

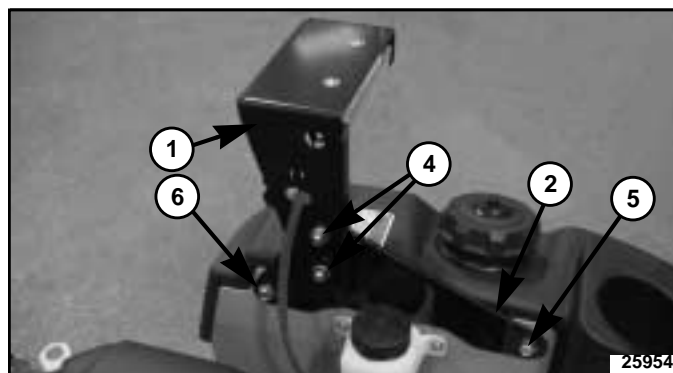
- Slip right hand light bracket (#1) behind nuts (#4) and push down until end of slot is reached.
- Tighten nuts (#4) to 20 ft-lbs of torque.



Attach Right Light Bracket to Adapter Plate
Figure 12

Refer to Figure 13:

- Repeat steps 1 to 9 to mount the left light bracket.



Attach Adapter Plate and Left Light Bracket
Figure 13

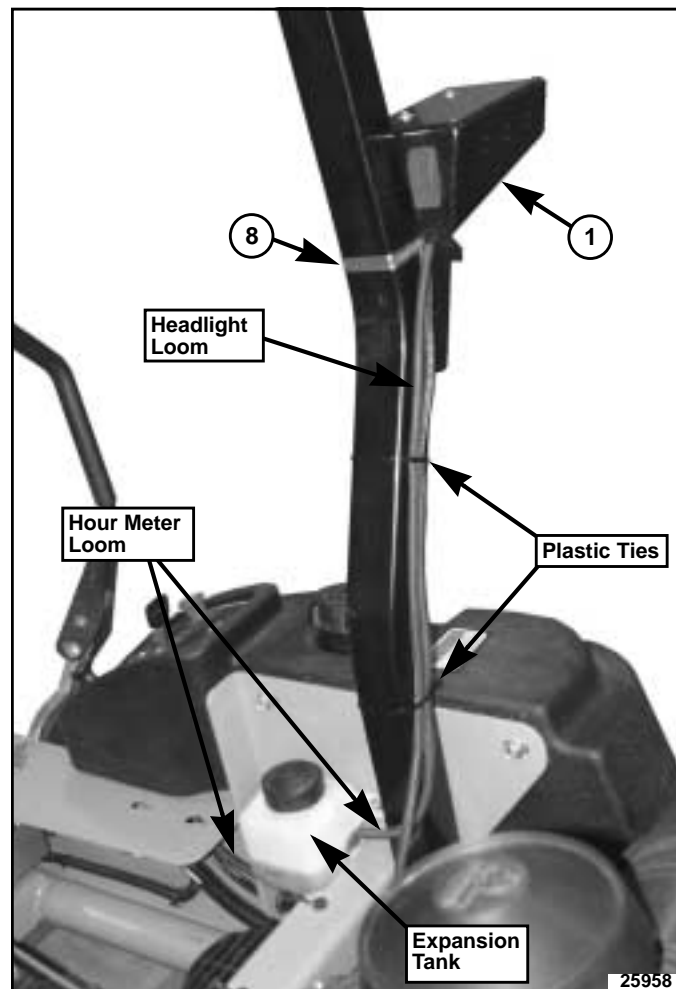
Method #3 - Light Bracket Mounted To ROPS

Refer to Figure 14:

- Attach right hand light bracket (#1) to ROPS as shown with worm drive clamp (#8). Insert free end of clamp through the loom hole in headlight and around the ROPS post.
- Make sure loom is not caught under the clamp. Tighten clamp to draw light bracket up tight against the ROPS post.
- Run headlight and hour meter looms down the back side of the ROPS. Loosely secure looms along the ROPS post with plastic ties. **Do not draw plastic ties up tight.**
- Route hour meter loom behind the hydraulic hose located under the expansion tank.

NOTE: The left headlight may require additional wire spliced into the wiring harness to mount the light. Additional wiring and accessories to make the splice are furnished by the customer.

- Repeat steps 1 to 4 above to mount the left headlight. The left light does not include hour meter loom.



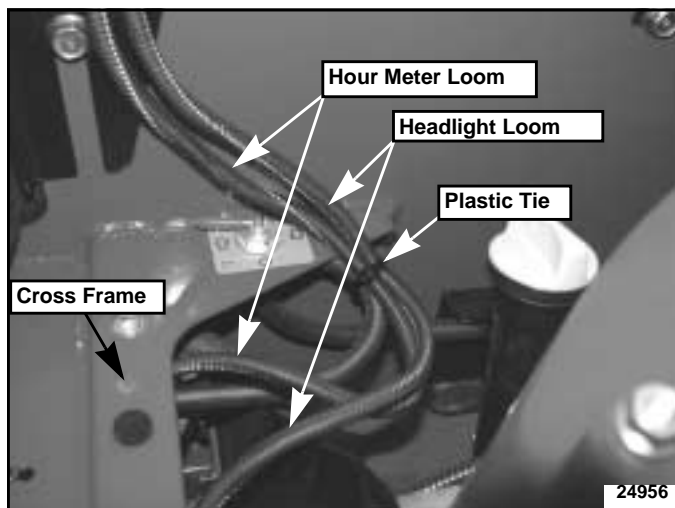
Attach Right Light Bracket to ROPS
Figure 14

Assembly Instructions

Loom Routing Between Headlights Z44, Z48, Z52, Z54, ZSR54 & ZSR60 Models

Refer to Figure 15:

1. On the mower's right side, pull headlight and hour meter looms back along the side panel and down. Loosely secure looms to other looms or rubber hoses nearby with plastic ties. **Do not draw plastic ties up tight.**

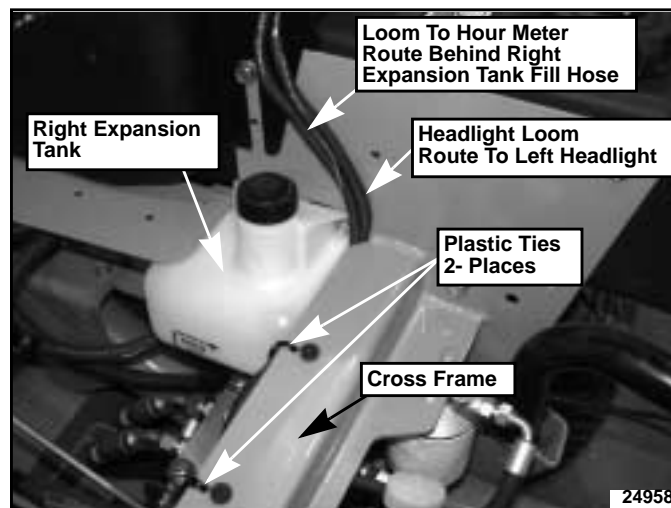


Loom Placement From Right Headlight
Figure 15

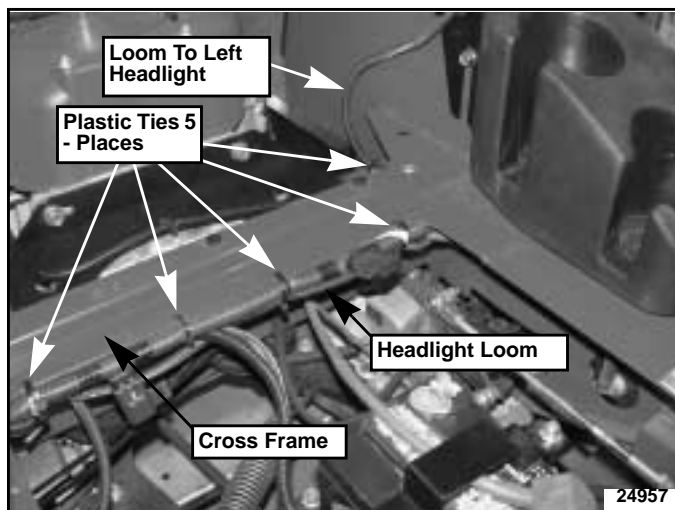
ZXT60, ZXT72, ZT60i, and ZT72i Models

Refer to Figure 17:

1. Run hour meter loom and headlight loom down along right side expansion tank to just under the cross frame.
2. Run headlight loom under cross frame to the left side. Loosely secure loom along front edge of cross frame with plastic ties. **Do not draw plastic ties up tight.**



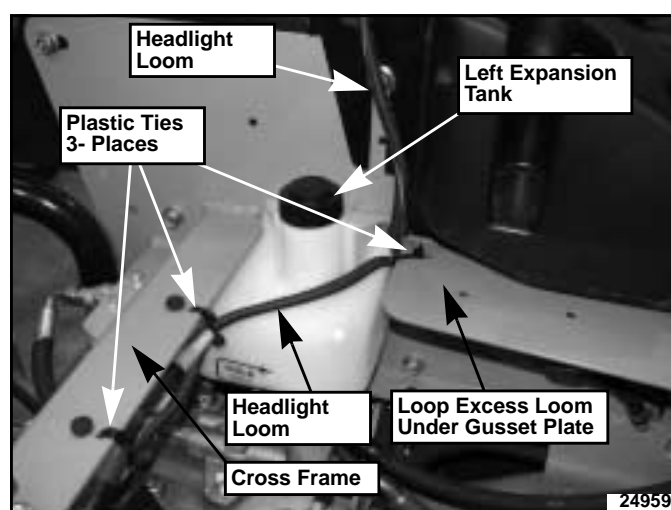
Loom Placement From Right Headlight (ZT Model Shown)
Figure 17



Headlight Loom Placement
Figure 16

Refer to Figure 16:

2. Pull headlight loom down under cross frame and forward. Loosely secure loom along front edge of cross frame with plastic ties. **Do not draw plastic ties up tight.**
3. Make final adjustments to plastic loom and then draw all plastic ties up tight.



Headlight Loom Placement (ZT Model Shown)
Figure 18

Refer to Figure 18:

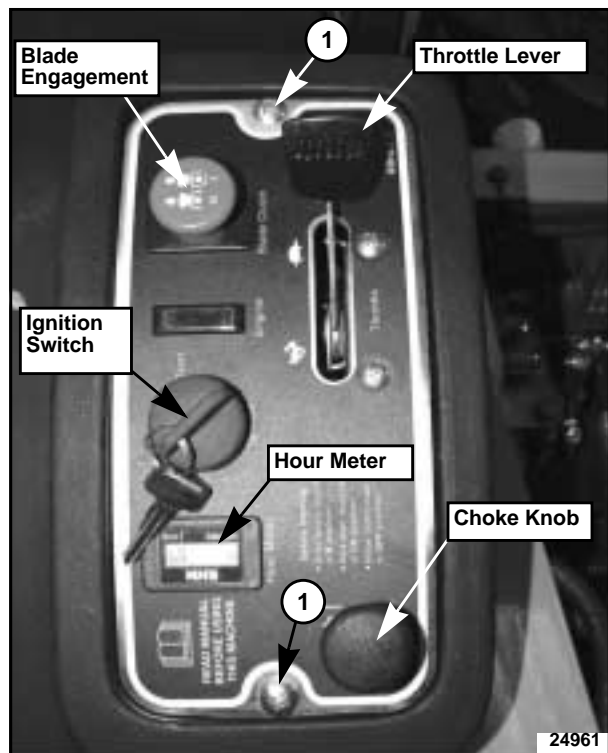
3. Run headlight loom across left expansion tank and loop excess under gusset plate. Loosely secure loom along front edge of cross frame and at hole in gusset plate with plastic ties. **Do not draw plastic ties up tight.**
4. Make final adjustments to loom and then draw all plastic ties up tight.

Assembly Instructions

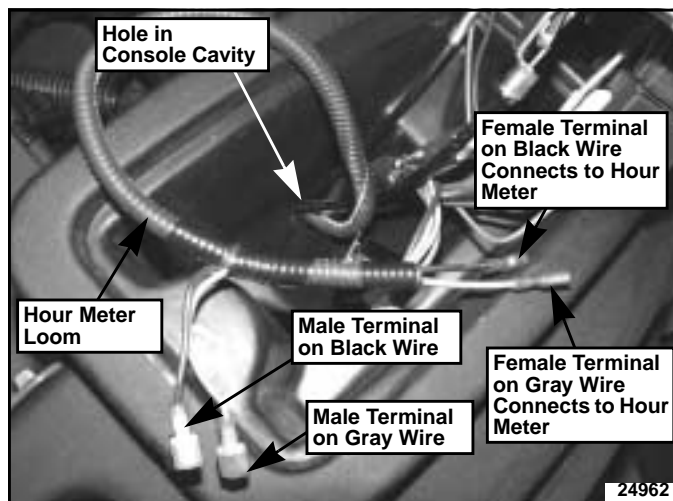
Loom Routing To Hour Meter

Refer to Figure 19:

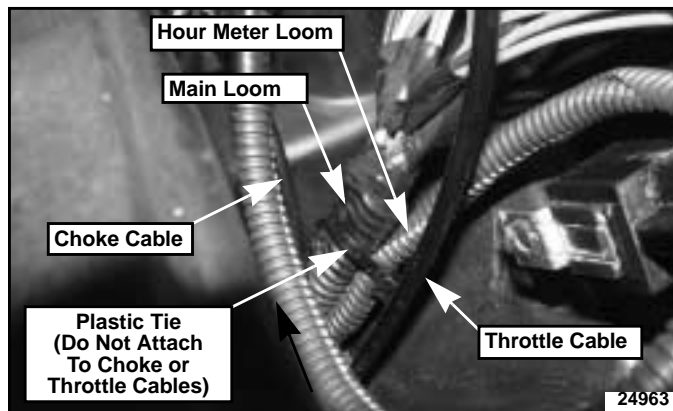
1. Remove the two Phillip head screws (#1) securing console panel.
2. Lift console panel up and locate hole in bottom of console cavity.
3. Route end "C" of hour meter loom along right side of the mower frame and up through hole in bottom of console cavity.



Console Panel
Figure 19



Hour Meter Loom Placement
Figure 20



Hour Meter Loom Tie Location
Figure 21

Refer to Figure 20 & Figure 21:

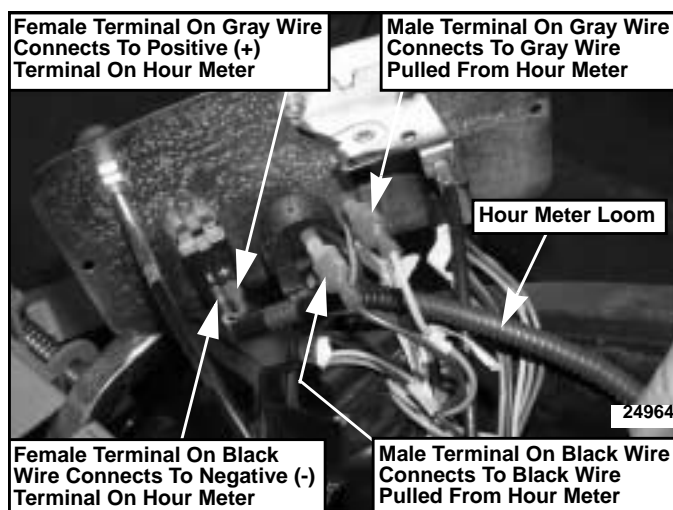
4. Pull excess loom inside of cavity (Figure 20) and plastic tie hour meter loom to main loom inside of cavity (Figure 21). See Important note below.

IMPORTANT: Do not tie loom to throttle cable or choke cable. Tying to either will limit their operation.

Hour Meter Connection

Refer to Figure 22:

1. Pull gray wire female terminal from hour meter. Locate gray wire female terminal on end "C" of the plastic loom and attach it to the hour meter terminal.
2. Pull black wire female terminal from hour meter. Locate black wire female terminal on end "C" of the plastic loom and attach it to the hour meter terminal.
3. Connect the pulled gray and black female terminals to the male terminals on end "C" of the plastic loom. Be sure to attach gray to gray and black to black.
4. Replace console panel and tighten screws.



Headlight Loom Placement
Figure 22

Assembly Instructions

Final Assembly

Refer to Figure 1 on page 2:

1. Reconnect ground cable to negative battery post.
2. Turn ignition switch on without starting engine.

CAUTION

Headlights become extremely hot while on and can burn a person's skin upon contact. Never touch headlights while they are hot. Always allow headlights to cool before making any adjustments.

Refer to Figure 22:

3. Test headlight switch by pushing in at the bottom of switch actuator. Headlights should turn on. Push in at the top to turn lights off.

Refer to Figure 4 on page 3:

4. Reverse wiring at the switch actuator terminals (#2) if lights work in reverse.

Headlight Beam Adjustment

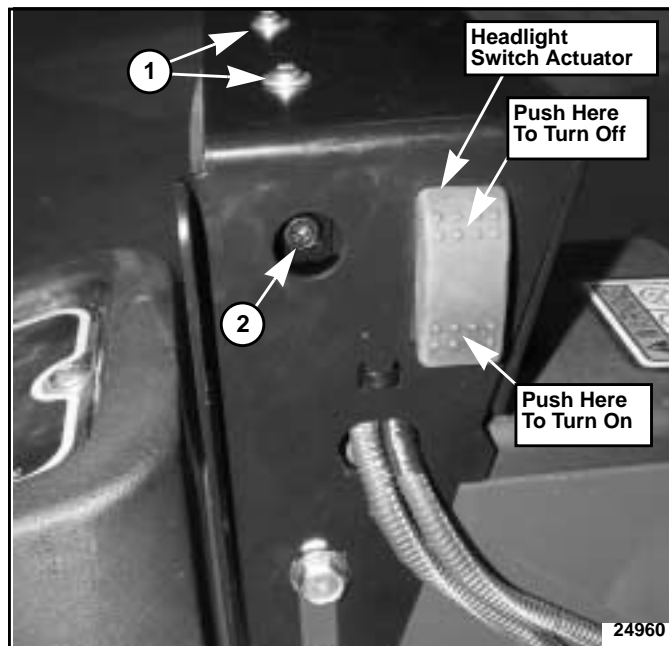
CAUTION

Headlights become extremely hot while on and can burn a person's skin upon contact. Never touch headlights while they are hot. Always allow headlights to cool before making any adjustments.

Refer to Figure 22:

The headlight beams can be adjusted left or right and up or down to the operator's preference.

1. Loosen screws (#1) and adjust beams left or right. Retighten screws when finished.
2. Loosen screws (#2) on both sides of headlights and adjust beams up or down. Retighten screws when finished.



Headlight Adjustments
Figure 22

Kit No. 357-160A

Headlight Kit, Z-Mowers

Qty.	Part No.	Part Description
1	357-178M	MANUAL LIGHT KIT Z-MOWERS
1	357-450D	LIGHT BRCKT RH, Z MOWER
1	357-461D	LIGHT BRCKT LH, Z MOWER
2	357-634D	ADAPTER PLATE LIGHT KIT
16	800-060C	CABLE TIE .19" X 14.25" 3" DIA 50 LB.
2	800-241C	CLAMP WRM DRV #48SS (1.63-3.5)
4	801-218C	CRPHMS 10-24 x 1/2" SS BLACK
4	802-149C	RHSNB 3/8-16X3/4 GR5
4	802-185C	HFSS 3/8-16X3/4 LG
4	803-001C	NUT HEX 10-24 PLT
4	803-209C	NUT FLANGE LOCK 3/8-16 PLT
8	804-046C	WASHER FLAT #10 SAE PLT
4	804-054C	WASHER LOCK #10
1	833-269C	SWITCH ROCKER SPST
1	833-271C	SWITCH ACTUATOR
2	833-275C	HEADLIGHT
1	833-444C	WIRE HARNESS, LIGHT KIT Z-MOWER



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