

Light Kit Assembly Instructions



Z44 & Z52 w/S/N 472620+

Manual No. 357-178M

Z48, Z54, ZSR54, ZSR60

ZXT54, ZXT60, ZT60, ZT72, ZT60i, ZT72i, ZT360, & ZT372

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.

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 357-271M
- Parts Manual 357-271P

ZT60 & ZT72

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

ZT60i & ZT72i (S/N 748109-)

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

ZT60i & ZT72i (S/N 748110+)

- Operator's Manual 357-552M
- Parts Manual 357-552P

ZT360 & ZT372

- Operator's Manual 357-610M
- Parts Manual 357-610P

General 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, ZT72i, ZT360, and ZT372. Please read these installation instructions and your mower's Operator's Manual thoroughly before beginning. Especially read information relating to safety concerns.

Tools required:

- Safety glasses & work gloves
- 7/16", 3/8" & 9/16" box end or open end wrench
- Magnetic phillips screwdriver
- Standard blade screwdriver

Assembly Instructions

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

357-160A Light Kit, Z-Mowers

A detailed listing of parts for the accessory kit is provided on page 10. Use this list as a checklist to inventory parts received. Please contact your local Land Pride dealer for any missing hardware.

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 that person is aware of any problems you may have and 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

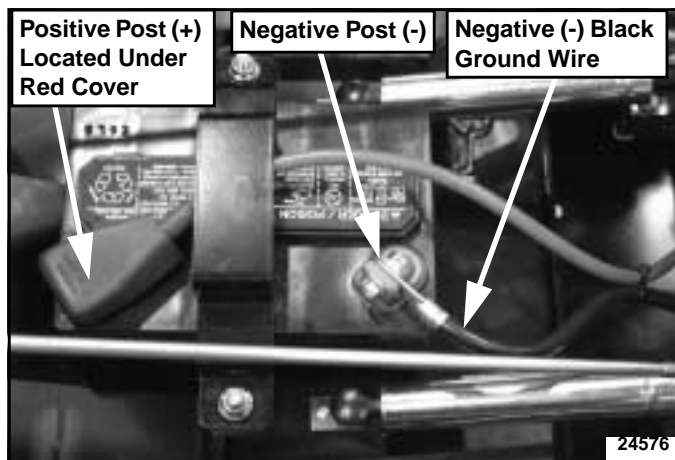
Further Assistance

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-.
2. Turn off engine and remove ignition key.
3. Raise seat platform 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.



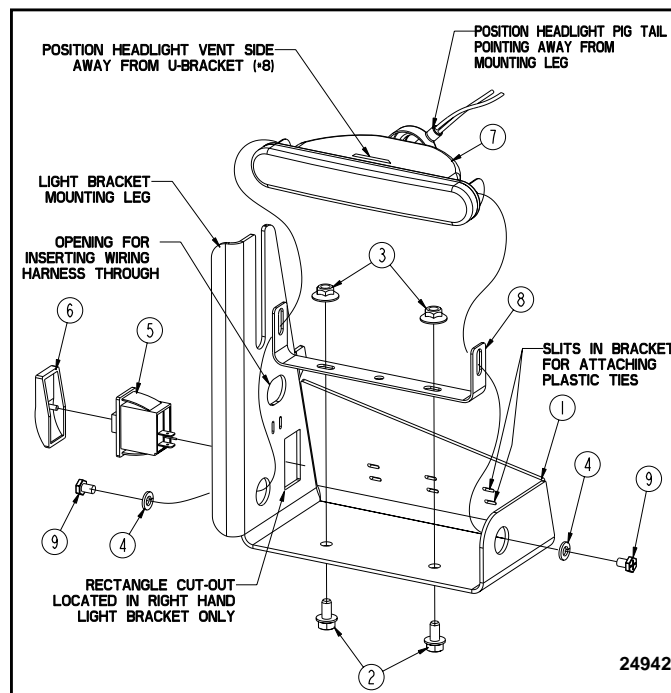
Remove Ground Wire From Battery (ZT Battery Shown)
Figure 1

Light Switch & Headlight Assembly

Refer to Figure 2:

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

1. Remove machine screws (#9), lock washers (#4), and u-bracket (#8) from headlight (#7).
2. Attach u-bracket (#8) to right-hand light bracket (#1) with two 1/4"-20 x 1/2" GR5 hex flange serrated screws (#2) and two 1/4" hex lock nut nuts (#3).
3. Center u-bracket in light bracket frame and tighten lock nuts (#3).
4. Position headlight with vent side facing away from the u-bracket and adjust pig tail to point away from light bracket mounting leg.
5. Attach headlight to u-bracket with machine screws (#9) and lock washers (#4). Tighten screws.
6. Insert headlight switch (#5) into rectangle hole in light bracket (#1) with connection terminals down as shown.



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

Figure 2

7. Install switch actuator (#6) with curved end of actuator down as shown.
8. Repeat steps 1 to 5 for left light installation.

Wiring Harness

Refer to Figure 3 on page 3:

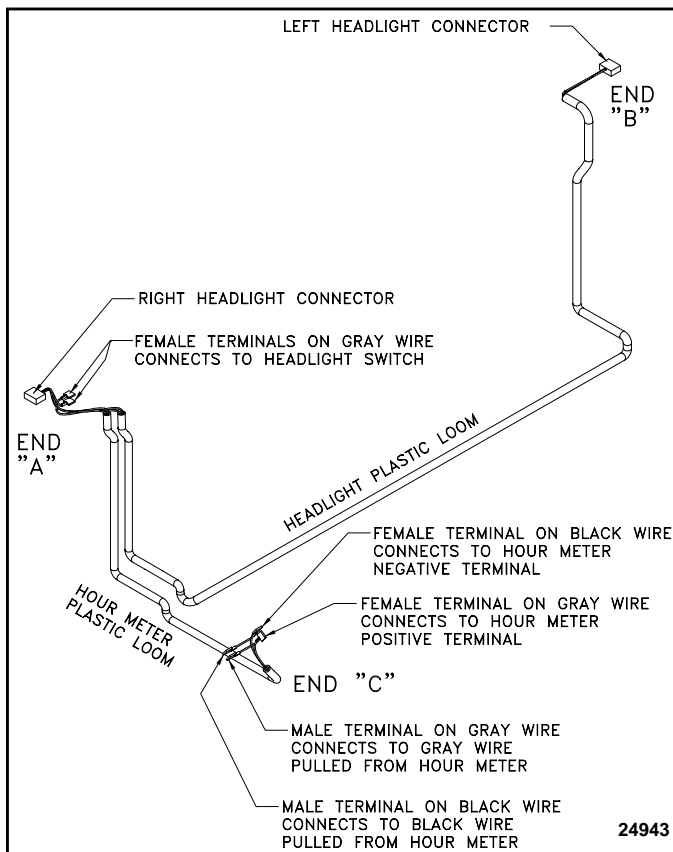
1. Locate and identify the three plastic loom ends.
 - a. End "A" has one connector for attaching to the right headlight and two female terminals for attaching to the headlight switch.
 - b. End "B" has one connector for attaching to the left headlight.
 - c. End "C" has two female/male terminals for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

Attach Wire Harness to Right Headlight

Refer to Figure 4 on page 3:

1. With right headlight turned upside down as shown, insert end "A" of wiring harness (see Figure 3) through wire harness opening in light bracket.
2. Attach female terminals (#1) to the headlight switch and connector (#2) to the 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 at this time.**

Further Assistance



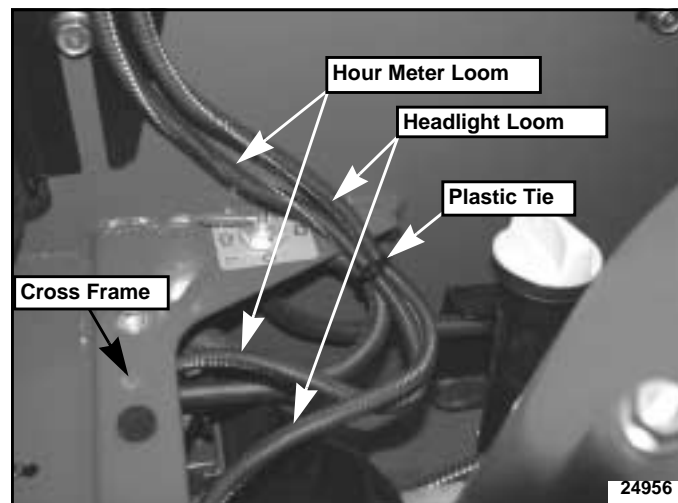
**Wiring Harness
Figure 3**

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

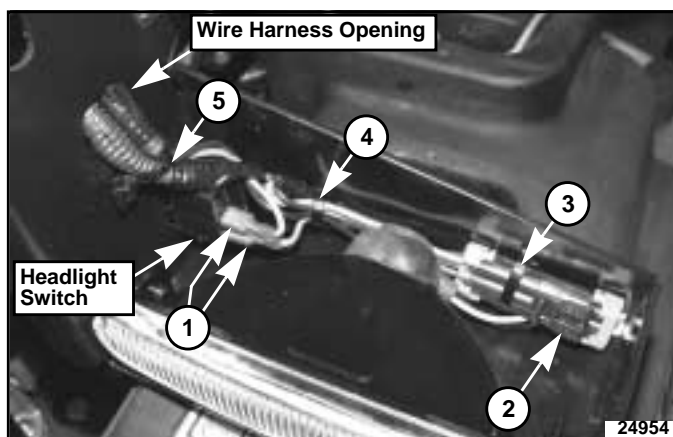
Skip to page 3 if your mower is not one of the above models.

Refer to Figure 16:

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

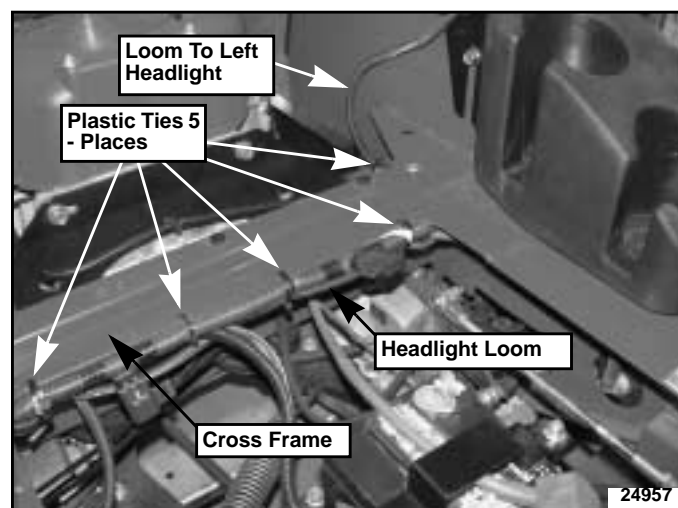


**Loom Placement From Right Headlight
Figure 16**



**Right Headlight & Switch Wiring
Figure 4**

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 at this time.**
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 at this time.**
6. Verify wiring harness does not interfere with headlight and light switch; then draw all three plastic ties (#3, #4, & #5) up tight.



**Headlight Loom Placement
Figure 17**

Refer to Figure 17:

2. Pull headlight loom down under the cross frame and forward. Loosely secure loom along front edge of cross frame with plastic ties. **Do not draw plastic ties up tight at this time.**

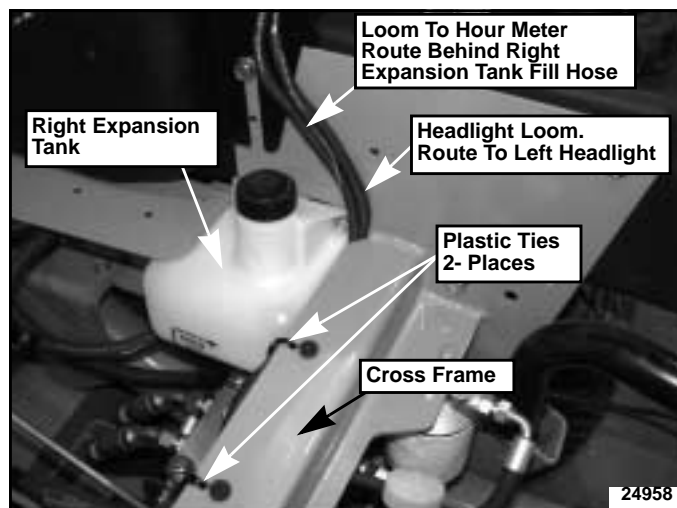
Further Assistance

Loom Routing Between Headlights For ZXT60 & ZXT72 Models And ZT60i & ZT72i Models With S/N 748109-

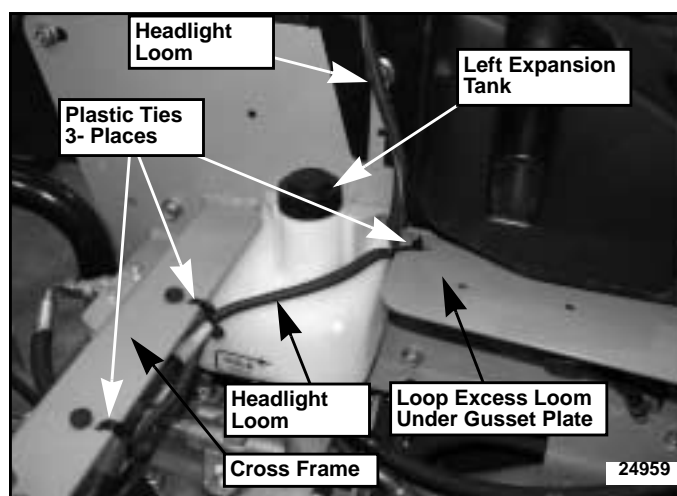
Skip to the right side of this page if your mower is not one of the above models.

Refer to Figure 18:

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



Loom Placement From Right Headlight (ZT Model Shown)
Figure 18



Headlight Loom Placement (ZT Model Shown)
Figure 19

Refer to Figure 19:

3. Run headlight loom across left expansion tank and loop excess under left side 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 at this time.**

Loom Routing Between Headlights For ZT60i & ZT72i Models With S/N 748110+ And All ZT360 & ZT372 Models

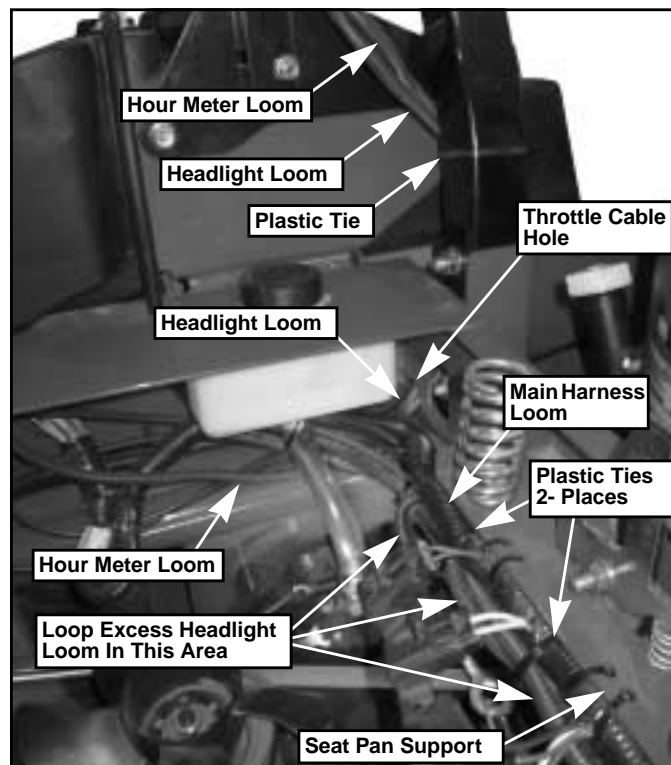
See "Loom Routing Between Headlights" on the left side of this page or on page 3 if your mower is not one of the above models.

Refer to Figure 20:

1. Run hour meter loom and headlight loom down along right-hand side of the ROPS frame and in through the throttle cable opening.
2. Run hour meter loom under right side expansion tank towards the console panel. Instructions for attaching the hour meter loom to the console panel will be covered later on page 8.

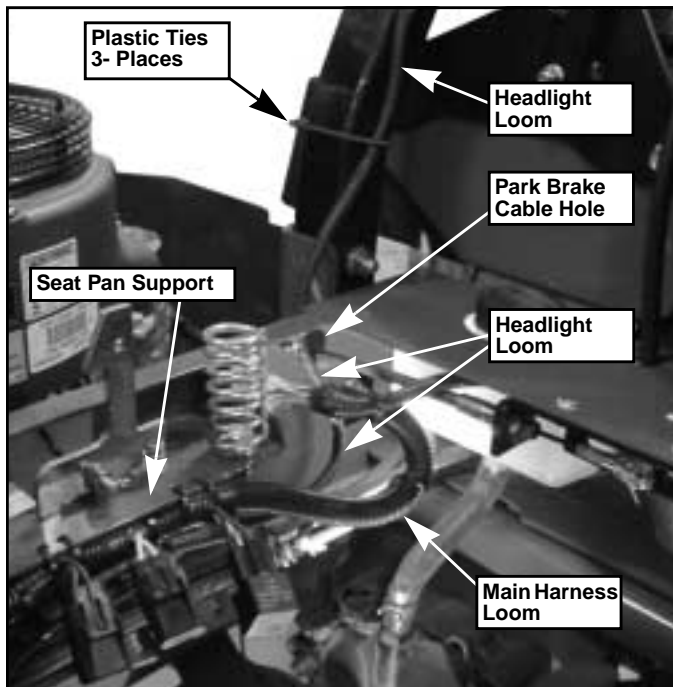
Refer to Figure 21:

3. Run headlight loom under the seat pan support to the left-hand side and exit out through the park brake cable hole as shown.
4. Continue to run headlight loom up along the front side of the ROPS frame and to the left headlight.
5. Loosely secure looms to both legs of the ROPS with plastic ties. **Do not draw plastic ties up tight at this time.**
6. Loop excess headlight loom under the seat pan support. Loosely secure excess loom to the main wiring harness loom with two plastic ties. **Do not draw plastic ties up tight at this time.**



Loom Placement From Right Headlight (ZT3 Model Shown)
Figure 20

Further Assistance



**Loom Placement From Left Headlight
Figure 21**

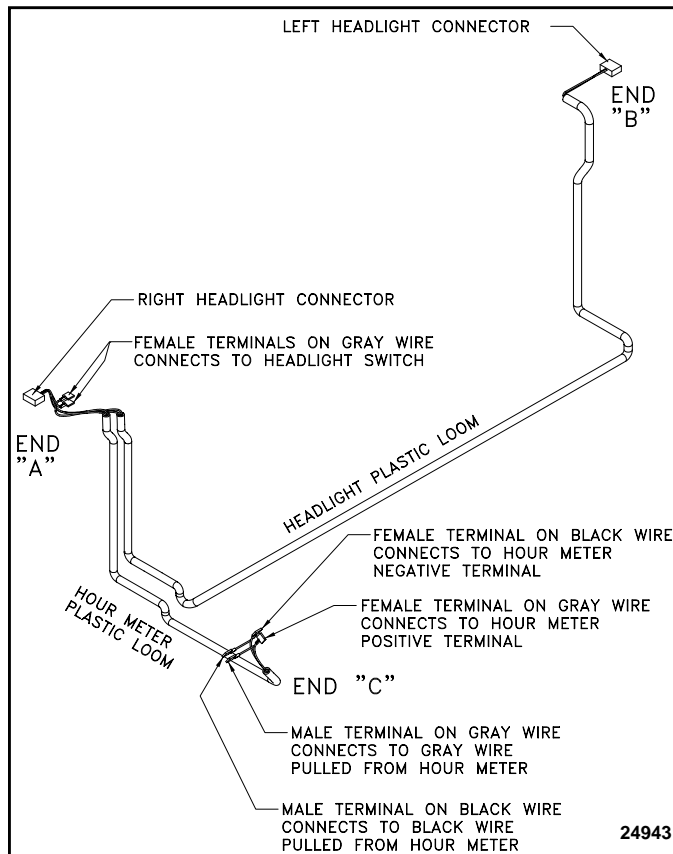
Attach Wire Harness to Left Headlight

Refer to Figure 22:

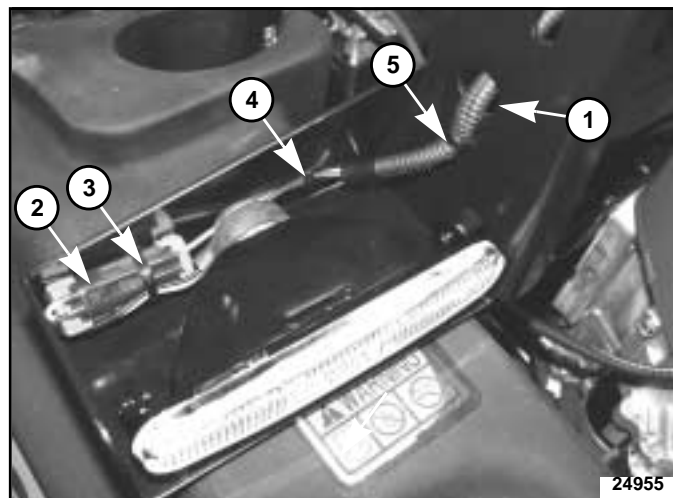
1. Run end "B" of headlight loom to the left-hand light bracket.

Refer to Figure 23:

2. With headlight turned upside down as shown, insert end "B" through wire harness hole (#1) in the left-hand light bracket.
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 at this time.**
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 at this time.**
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 at this time.**
7. Verify wiring harness does not interfere with headlight; then draw all three plastic ties up tight.



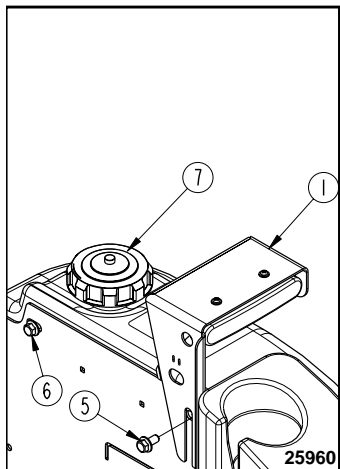
**Wiring Harness
Figure 22**



**Right Light & Switch Wiring
Figure 23**

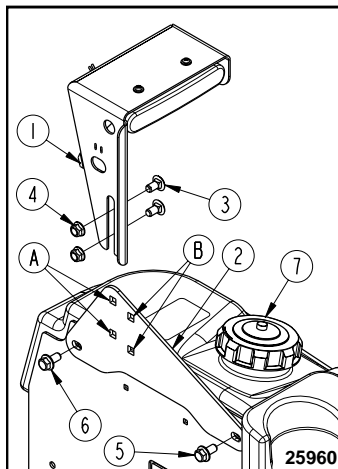
Further Assistance

Method #1



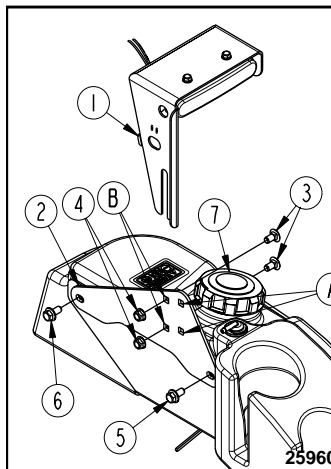
All Models
With Fill Cap at the Back
Figure 24

Method #2



Z, ZSR, ZXT, & ZT Models &
ZTi Models With S/N 748109-
Figure 25

Method #3



ZTi Models With S/N 748110+
& All ZT3 Models
Figure 26

Method #4



All Models
Equipped With ROPS
Figure 27

Attach Left & Right Light Brackets

There are four methods for attaching the light brackets.

Method #1: Refer to Figure 24. 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 Figure 25. Mount light bracket (#1) behind fuel cap (#7). This method is used when fill cap is located in the middle of the fuel tank except on ZTi models with S/N 748110+ and all ZT3 models.

Method #3: Refer to Figure 26. Mount light bracket (#1) above fuel cap (#7). This method is used on ZTi models with S/N 748110+ and all ZT3 models.

Method #4: Refer to Figure 27. Mount light bracket (#1) on the ROPS. This method can be used on all models equipped with ROPS.

Method #1 - Light Mounted in Front of Fuel Cap

Refer to Figure 28:

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 the 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 to mount left-hand light bracket.

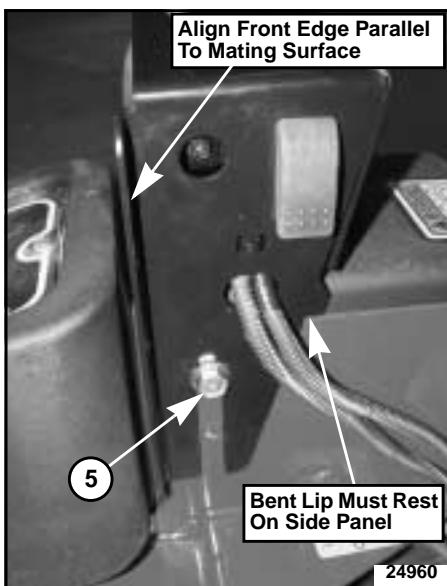
Method #2 - Light Mounted Behind Fuel Cap

IMPORTANT: See Figure 25: There are four square holes (A & B) in adapter plates (#2).

- The back two square holes (A) are used when mounting light kit to Razor Z & ZSR Mowers.
- The front two square holes (B) are used when mounting light kit to ZXT & ZT models and to ZTi models with S/N 748109-.

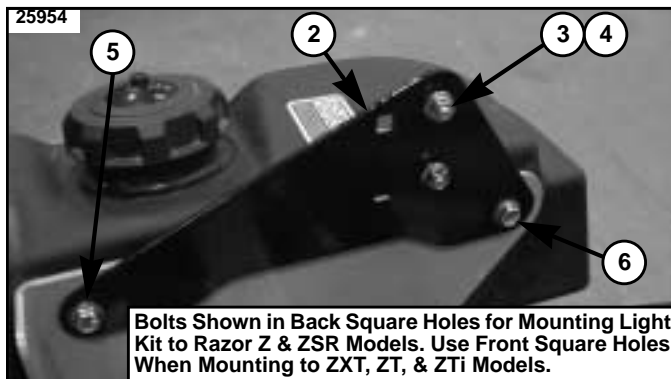
Refer to Figure 29:

1. Orient adapter plates (#2) with narrow end pointing towards front of mower.
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 existing 3/8" screw (#5) and discard.
4. Attach narrow end of adapter plate (#2) to mower frame with new 3/8" x 3/4" GR2 hex flange serrated screw (#5). Draw screw up snug. To be tighten later.



Attach Light Bracket in Front of Fuel Cap
Figure 28

Further Assistance



Attach Adapter Plate (Right Side Shown)
Figure 29

5. Remove existing 3/8" screw (#6) and discard.
6. Attach wide end of adapter plate (#2) to mower frame with new 3/8" x 3/4" GR2 hex flange serrated screw (#6). Draw screw up snug. To be tighten later.

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

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

Refer to Figure 30:

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

Refer to Figure 31:

10. Repeat steps 1 to 9 to mount left-hand light bracket.

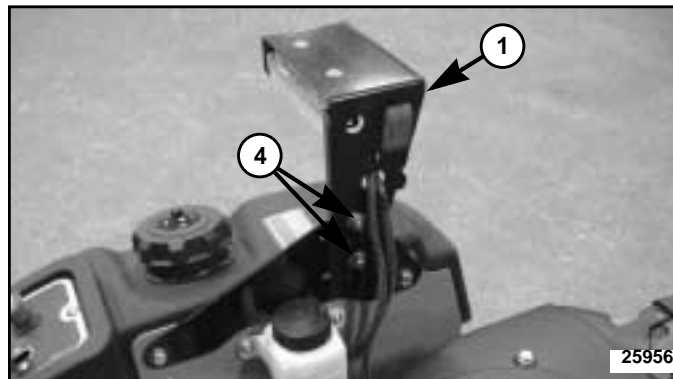
Method #3 - Light Mounted Above Fuel Cap

Refer to Figure 32:

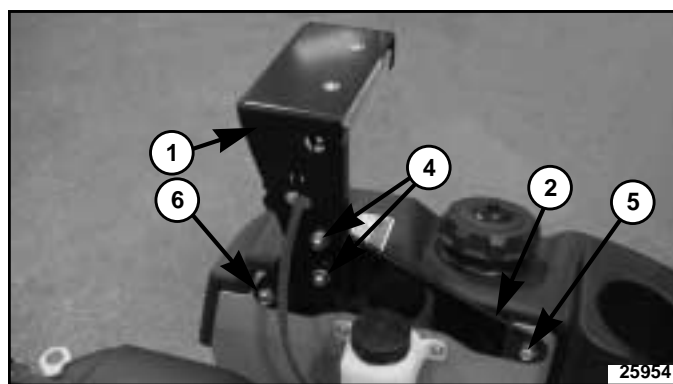
1. Orient adapter plates (#2) with narrow end pointing towards the back of the mower.
2. From the fuel tank side, insert two 3/8" -16 x 3/4" round head square neck bolts (#3) through square holes (B). Screw on 3/8" flange lock nuts (#4) by hand until they don't turn easily.
3. On the left-hand side of the mower, remove existing 3/8" screw (#5) and discard.
4. Attach wide end of adapter plate (#2) to mower frame with new 3/8" x 3/4" GR2 hex flange serrated screw (#5). Draw screw up snug. To be tighten later.
5. Remove existing 3/8" screw (#6) and discard.
6. Attach narrow end of adapter plate (#2) to mower frame with new 3/8" x 3/4" GR2 hex flange serrated screw (#6). Draw screw up snug. To be tighten later.

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

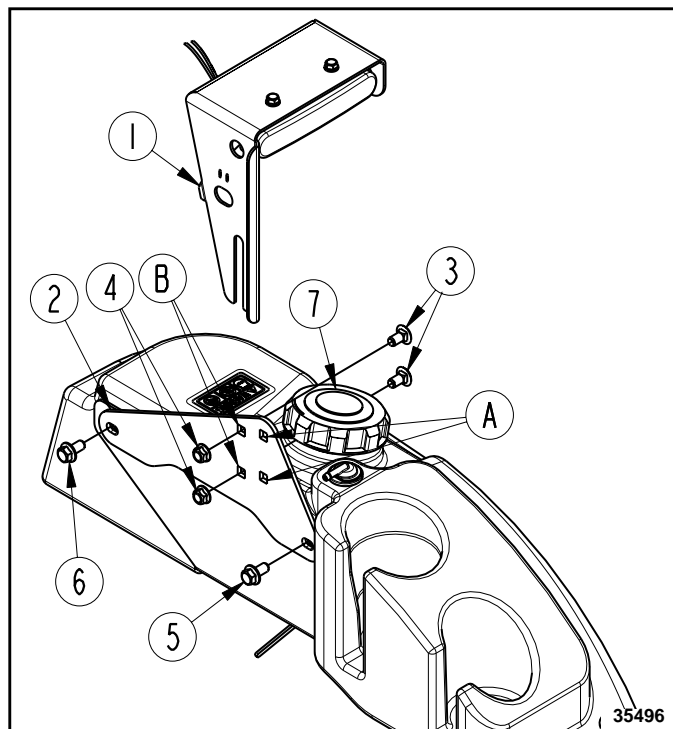
7. Tighten screws (#5 & #6) to 15-20 ft-lbs. torque.
8. Slip left-hand light bracket (#1) behind nuts (#4) and push down until end of slot is reached.
9. Tighten nuts (#4) to 20 ft-lbs of torque.
10. Repeat steps 1 to 9 to mount right-hand light bracket.



Attach Right-hand Light Bracket to Adapter Plate
Figure 30



Attach Adapter Plate and Left-hand Light Bracket
Figure 31



Attach Adapter Plate and Left-hand Light Bracket
Figure 32

Further Assistance

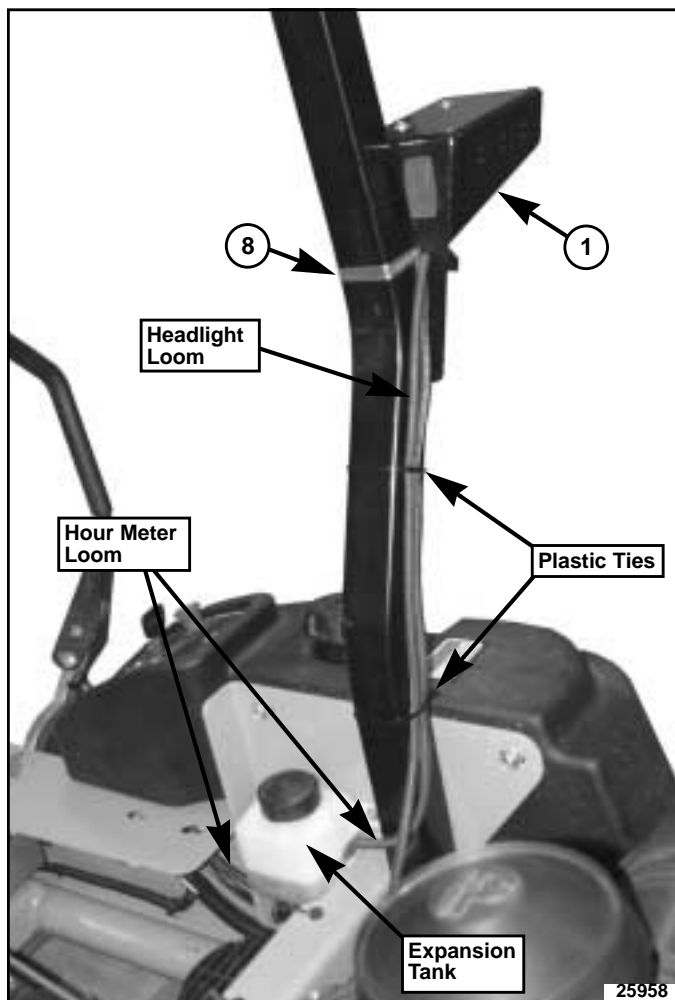
Method #4 - Light Bracket Mounted To ROPS

Refer to Figure 33:

1. 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.
2. Make sure loom is not caught under the clamp. Tighten clamp to draw light bracket up tight against the ROPS post.
3. 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.**

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.

4. Repeat steps 1 to 3 above to mount the left headlight. The left headlight does not include hour meter loom.

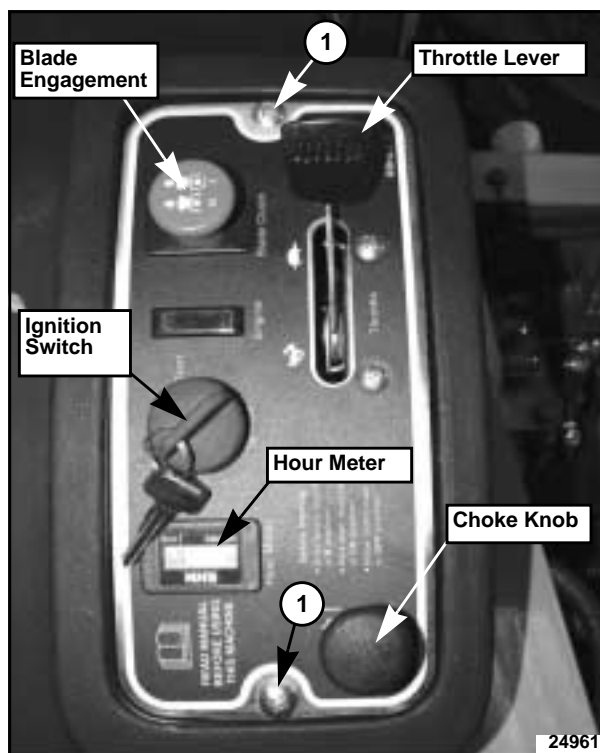


Attach Right-hand Light Bracket to ROPS
Figure 33

Loom Routing To Hour Meter

Refer to Figure 34:

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 34

Refer to Figure 35 & Figure 36:

4. Pull excess loom inside of cavity (Figure 35) and plastic tie hour meter loom to main loom inside of cavity (Figure 36). See Important note below.

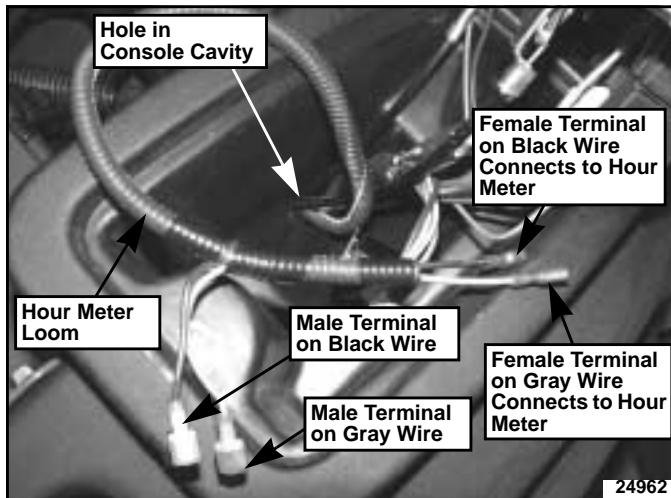
IMPORTANT: Do not tie loom to throttle cable or choke cable. Tying to either will limit their operation.

Hour Meter Connection

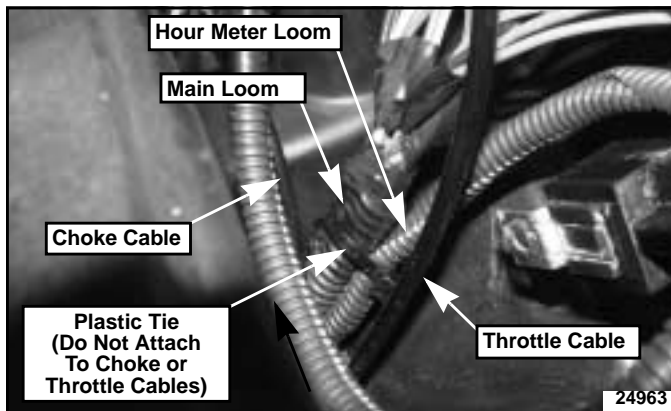
Refer to Figure 37:

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.

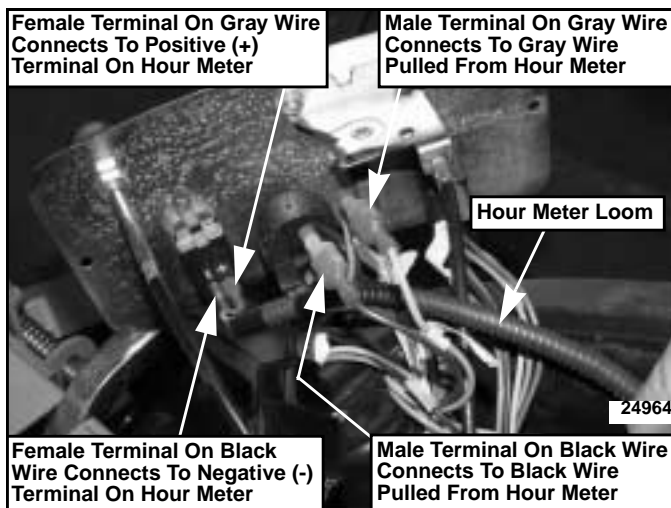
Further Assistance



Hour Meter Loom Placement
Figure 35



Hour Meter Loom Tie Location
Figure 36



Headlight Loom Placement
Figure 37

Final Assembly

Refer to Figure 1 on page 2:

1. Make final adjustments to hour meter loom and headlight loom and then draw all plastic ties up tight.
2. Reconnect ground cable to negative battery post.
3. 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 38:

4. 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:

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

Headlight Beam Adjustment

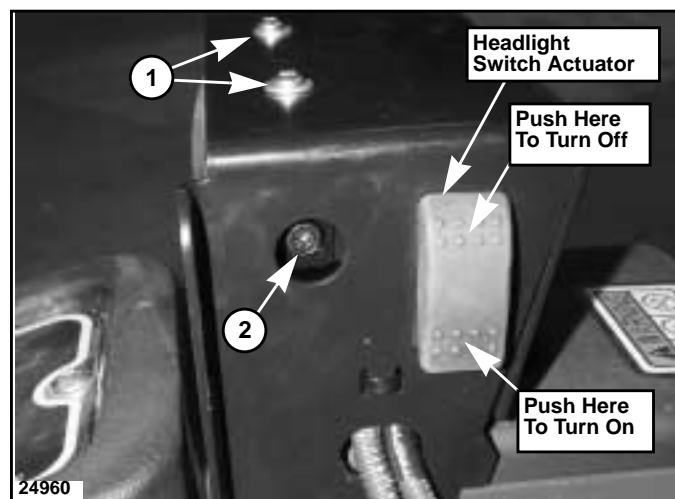
CAUTION

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 38:

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 38

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	802-148C	HFSS 1/4-20X1/2 GR5
4	802-149C	RHSNB 3/8-16X3/4 GR5
4	802-185C	HFSS 3/8-16X3/4 LG
4	803-088C	NUT HEX LOCK 1/4-20 FLG
4	803-209C	NUT FLANGE LOCK 3/8-16 PLT
1	833-269C	SWITCH ROCKER SPST
1	833-271C	SWITCH ACTUATOR
2	833-275C	HEADLIGHT
1	833-444C	WIRE HARNESS, LIGHT KIT Z-MOWER



Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
www.landpride.com