

SECTION ES

Electrical System

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General Instructions

WARNING

Detailed information on standard workshop and safety procedures, and general servicing operations is not included in this manual, which has been prepared to assist qualified service personnel. ODG assumes no responsibility or liability for PERSONAL INJURY or VEHICLE DAMAGE which results from any servicing procedure performed, including those instructions outlined in this manual. Before performing a servicing operation, an individual must have determined to his/her satisfaction that a personal injury or vehicle damage will not result from the servicing procedure or tools selected.

CAUTION

To prevent damage to the electrical system:

- Always disconnect the battery when servicing any electrical component.
- Never weld on the vehicle without first disconnecting both positive and negative battery cables. Make sure the part you are welding is properly grounded.
- Connecting booster cables to start your vehicle is not a recommended practice. Damage to engine electrical components could occur.
- Connect switch terminals properly, especially the ground wire.

WARNING

Battery fluid contains sulphuric acid. If battery fluid comes in contact with skin or eyes, flush thoroughly with water. If swallowed, call physician or poison control centre immediately. KEEP AWAY FROM CHILDREN. Serious personal injury can occur. Always wear rubber gloves and safety glasses when servicing the battery.

Batteries can explode and cause serious personal injury if exposed to flame or sparks. Never smoke while servicing the battery.

Battery - Exide, Group Size 45-60 495 CCA or (Optional Optima SC51DA Yellow Top).

All models are equipped with a 12 volt, wet cell type battery. The battery is located under the seat.

Checking the Fluid Level (All vehicles except those with Optima Battery (sealed))

Check the fluid level every 50 hours of operation. Remove the pod vents and make sure each cell is filled to the fluid level as shown in **Fig ES-1**. If the fluid has dropped below the fill well, add distilled water until the cell is filled to correct level. **DO NOT OVERFILL.**

Charging the Battery

Fill all new dry charged batteries with electrolyte battery acid and let stand (off cement floor) for 6 hours. Slow charge for at least another 6 hours.

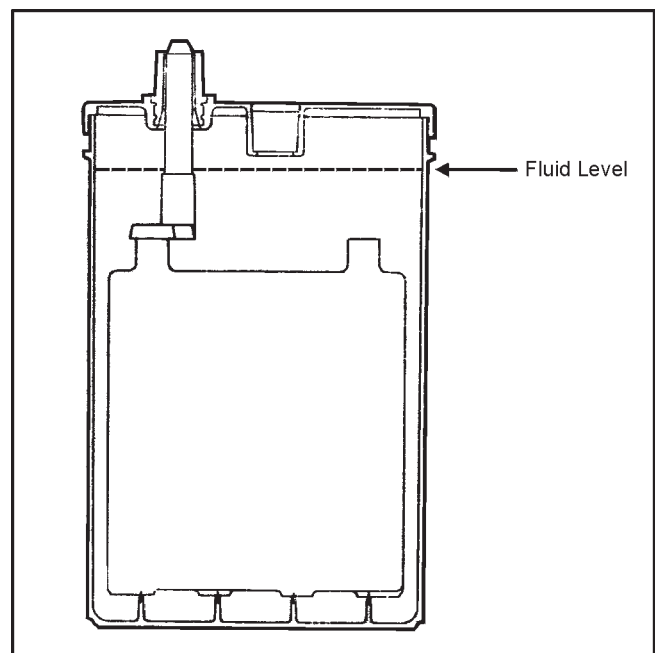
If the battery loses its electrical charge, remove the battery from the ARGO and recharge it with a 12 volt battery charger at the rate of 10-12 amps maximum. The battery should remain on charge until the specific gravity reaches 1.265 on a hydrometer. Re-install the battery in the vehicle and try to start the engine. If the battery fails to perform properly, have it tested by a battery service dealer. Replace a defective battery immediately.

WARNING

Ventilate area when charging. Keep away from spark, heat, cigarettes or open flame.

Cleaning the Battery Terminals and Cable Connections

Clean the battery terminals and cable connections every 100 hours. Remove the black NEGATIVE (-) cables first. Make sure you reconnect the NEGATIVE (-) cables to the NEGATIVE (-) post and the red POSITIVE (+) cables to the POSITIVE (+) posts. Damage to the electrical system will occur if the cables are reversed.



WARNING

Battery fluid contains sulphuric acid. If it comes into contact with your skin or eyes, serious personal injury will occur. Always wear rubber gloves and safety goggles when servicing the battery.

CAUTION

Batteries produce explosive gas. Keep sparks, flames and cigarettes away from the battery. Re-charge the battery only in a well ventilated area.

NOTE

Keep the battery charged. Never allow the battery to become drained by unnecessary use of the headlights or overcranking of the engine.

If the battery is dead or the electrical charge is low, re-charge it with a 12 volt battery charger. Slow charge for at least 6 hrs.

If persistent problems with battery charge occur, before replacing the battery, ensure that the engine charging system is functioning properly. Refer to the appropriate engine service manual given in section GI of this service guide.

Battery Removal

1. Locate the battery beneath the driver's seat compartment and remove the polyethylene cover protecting the battery (the cover is secured by a nylon strap).
2. Disconnect the battery by removing the negative cable from the ground post first. **Photo 1**
3. Lift the battery from the vehicle to a clean work service.

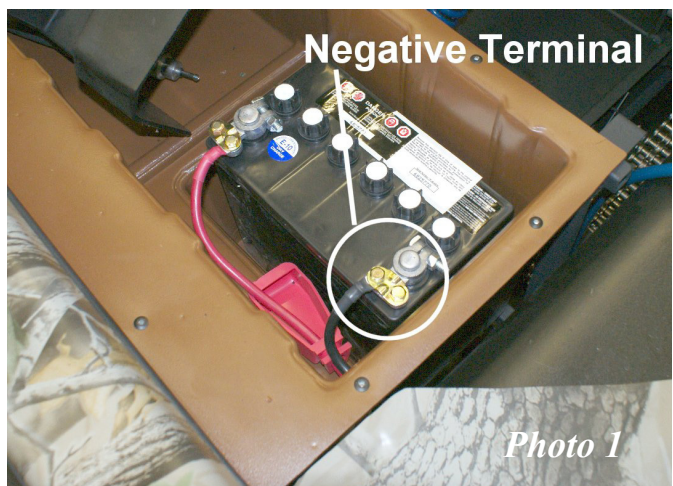


Photo 1

Cleaning the Battery

Clean the top of the battery every 250 hours with a mixture of baking soda and water. Before cleaning the battery, remove it from the vehicle and make sure the pod vents are in place. Soak a cloth in the soda/water mixture and scrub the top of the battery. After the foaming has stopped, flush with clean water and dry with a clean cloth.

Battery Inspection

Inspect the battery for:

- cracks in the battery casing
- cracked or broken terminals
- exposed or corroded cells
- weak cells
- corroded terminals
- low water level

If any of these conditions are noted, service the battery immediately. Adjust battery fluid level with distilled water, and clean and grease the battery terminals.

Installing the Battery

1. Place the battery into the battery compartment (located under the front seat). Orient the battery so the Negative Terminal is nearest the installer. ***Photo 1***
2. Fasten the main power cable to the positive battery terminal.
3. Re-attach the ground cable to the negative terminal side of the battery.
4. Place the polyethylene cover to top of the battery and secure with battery strap.

Reinstall the firewall.

Charging and Testing the Battery - Optima

The following process has been recommended by OPTIMA Batteries to support your charging concerns about this unique product. Note that steps 4 and 4B can help you minimize your recharge requirements and prevent unnecessary recharge effort.

1. Check the appearance of the battery. If there is any physical damage or alteration to the battery — holes in case / cover or post alteration, missing flame arrestor disc(s)/vent/valves — do not charge the battery. Batteries are not eligible for warranty with these conditions.

2. Check the Open Circuit Voltage (OCV) of the battery to determine its state of charge.

NOTE

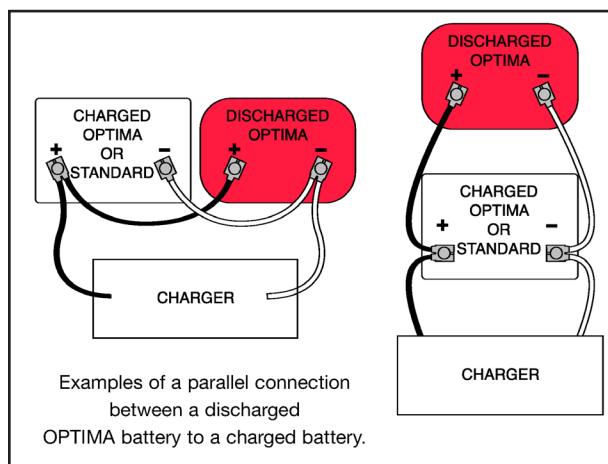
OPTIMA battery technology will allow discharging a 12V battery below the normal 10.5 volts without significant decreases in performance. However, the design of many standard constant-voltage chargers may not permit it to recognize a battery with a voltage below 10.5 volt.

If the OCV is less than 10.5 volts, take the following steps to get the OPTIMA battery to accept a charge:

1. Begin the process by connecting a good battery to the charger.
2. Connect the discharged OPTIMA battery (below 10.5 volts OCV) in a parallel connection with the good battery as shown. Turn the charger on.
3. If the discharged OPTIMA battery voltage increases to 10.5 volts or higher, remove it from the parallel connection and go to step 5 (charging/testing).
4. If the OPTIMA battery voltage does not increase within one hour, fail the battery. The RBR can include the description “Failed Step 3D” as reason for warranty return.
5. If the OCV is between 10.5 and 12.55, connect the battery to a constant-voltage charger, such as a (1) parallel charger or (2) single battery 5/15/50-type roll-around shop charger for no more than 5 minutes to see if it accepts a charge.

Depending on results:

- 4A. If it accepts equal to or greater than 5 amps, follow the “constant charge” or “constant current” charging recommendations next page or those on the Interstate “Approximate Charge Times · Key Shop Procedures” chart.
- 4B. If it does not accept 5 amps, do not charge the battery. Fail the battery based on this test. The RBR can include the description “Failed Step 4B” as reason for warranty return.



CONSTANT VOLTAGE <small>common to most single battery chargers, parallel chargers and consumer chargers</small>				
	Auto/Marine Starting Battery		Deep Cycle/Commercial Battery	
Tested OCV	<12.00		<12.15	
Current (amps)	5		5	
Current Limit (amps) (3-amp avg. over time)	5-10		5-10	
Amp-Hour Capacity	44	50	41	55
Time (hours)	10	12	6	7

Current will drop as battery becomes fully charged.

CONSTANT CURRENT <small>this includes series connected batteries on multiple battery chargers</small>				
	Auto/Marine Starting Battery		Deep Cycle/Commercial Battery	
Tested OCV	<12.00		<12.15	
Current (amps)	5		5	
Amp-Hour Capacity	44	50	41	55
Time (hours)	6	7	4	4

With constant current charging, a battery voltage should not be permitted to go above 16.0 volts.

After the battery is fully charged, go to Step 6 to load test the battery.

NOTE

12V batteries received at severely low voltages of less than 8 volts may require 50% longer charging times (50% more Amp-Hour input).

During the charge process, batteries that are hot to the touch ($>120^{\circ}\text{F}$) should be removed from charge. If this occurs on a series charger, the 12V battery may have a terminal voltage greater than 16 volts. If it occurs on a constant voltage charger, fail the battery.

- If the OCV is 12.55 volts or higher, load test the battery following Battery Council International (BCI) load procedure. (A load test @ 1/2 the CCA for 15 sec is required to pass or fail the battery for warranty consideration.)

WARNING

Ventilate area when charging. Keep away from spark, heat, cigarettes or open flame.

Fuses

All models of the ARGO are equipped with push-in type automotive fuses. The fuses protect the electrical circuits of the vehicle. They are located in the fuse block, inside the engine compartment, just in front of the steering system. Replace any blown fuses. Return your vehicle to an ARGO dealer for inspection of the electrical circuit if a fuse blows repeatedly.

Spark Plugs

1. Remove and inspect the spark plugs after every 100 hours of operation. Clean the plugs and reset the gap as detailed in the engine owner's manual.
2. Replace the spark plugs if the electrodes are corroded or damaged or if the insulator is cracked. Use the correct plug for the engine as detailed in the engine owner's manual.
3. Re-install the spark plugs carefully, taking care to start the threads properly. Torque the plugs to 10 - 15 ft. lbs (14 to 20 N·m). Do not over tighten.

Removing the Headlamp Bulb

1. Open the vehicle hood.
2. Locate the back of the headlamp.
3. Grasp the headlamp bulb fitting and turn 1/4 turn counter-clockwise to remove from the lens assembly. *Photos 1 & 2*



Photo 1



Photo 2

4. Spread the two clips that lock the bulb assembly to the wire harness socket and remove the bulb. *Photo 3*

Installing the Headlamp Bulb

CAUTION

When installing the new bulb, avoid any contamination of the glass surface. Do not touch the bulb with your fingers.

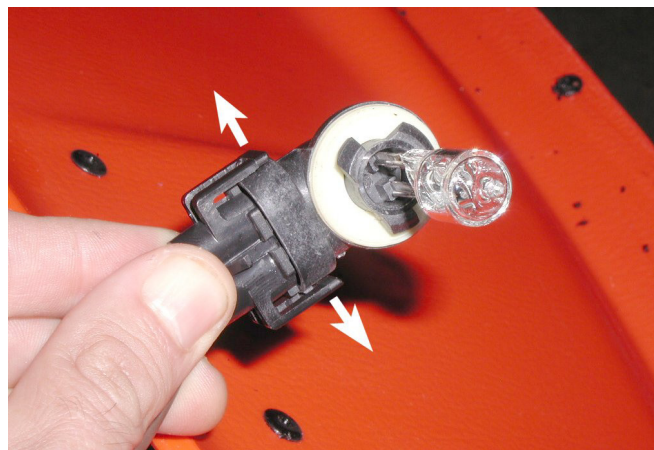


Photo 3

1. Clip the new bulb assembly into the wire harness.
2. Reaching in through the engine access area, align the bulb assembly with the headlamp housing. Push in and turn 1/4 turn clockwise.

Removing the Headlamp Lens Assembly

NOTE

*Avenger models manufactured **prior** to serial number 28909 utilize a rubber bezel to secure the lense assembly into the upper body headlamp location.*

*Avenger models manufactured **from** 28909 utilize a plastic bezel and four screws which secure the lense assembly at the headlamp location.*

Models Prior to Serial Number 28922 (Rubber Bezel)

- i. From the front of the vehicle, place your hand over the lense and push inwards (at the outside edge) to pop the lense towards the inside of the vehicle.
- ii. Pull the headlamp lens out through the front. Grasp the headlamp bulb fitting and turn 1/4 turn counter-clockwise to remove from the lens assembly.
- iii. Peel the rubber bezel off the lens.

Models From Serial Number 28922 (Plastic Bezel)

- i. Remove the (4) Screws securing the plastic bezel to the headlamp location.

Photos 4 & 5

NOTE

*Vehicles manufactured from serial number 30030 have a #10 Speed Nut installed to the screw to the inside. **Photo 6**. Ensure it does not fall into the vehicle when removing screws.*

Photo 4



Photo 5



- ii. Pull the lens from the headlamp location *Photo 7*.

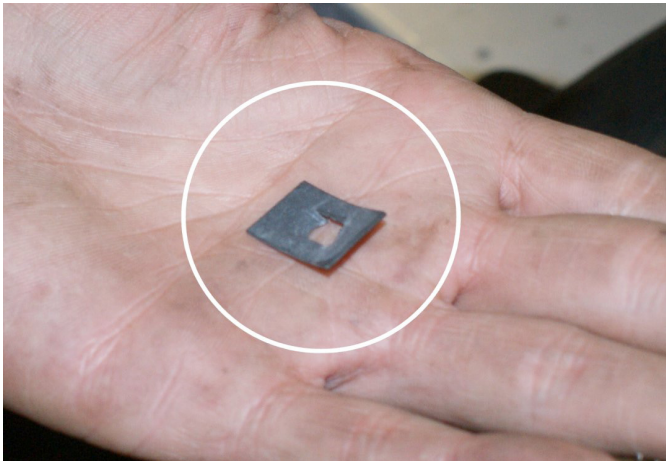


Photo 6



Photo 7

- iii. Remove the bulb by grasping the headlamp bulb fitting and turning 1/4 turn counter-clockwise.

Installing the Headlamp Lens Assembly

Models Prior to Serial Number 28922 (Rubber Bezel)

- i. Install the rubber bezel to the perimeter of the headlamp lens.
- ii. Push the lens assembly into the headlamp opening of the upper body with one hand while bracing it from behind with the other hand. *Photos 8 & 9*

NOTE

*Seat the plastic edge of the headlamp opening into the groove of the rubber bezel. Pull the rubber from behind to ensure it is seated properly to the inside of the vehicle. **Photo 10***

- iii. Install the headlamp bulb into the lens aligning the bulb assembly with the lens socket. Push in and turn 1/4 turn clockwise.



Photo 8



Photo 9



Photo 10

- iv. Install the headlamp bulb into the lens aligning the bulb assembly with the lens socket. Push in and turn 1/4 turn clockwise.

Installing the Headlamp Lens Assembly

Models From Serial Number 28922 (Plastic Bezel)

- i. Reconnect the headlamp bulb into the lens aligning the bulb assembly with the lens socket. Push in and turn 1/4 turn clockwise.
- ii. Place the lens back to the headlamp opening and secure with the plastic bezel and (4) machine screws. **Photos 11 & 12** (models manufactured from serial number 30030 have a #10 speed nut installed to the back of the screw)

NOTE

If you have an earlier manufactured vehicle that does NOT have the #10 speed nuts assembled to the screws, it would benefit to have them installed. This will provide a much tighter fit of the plastic bezel to the upper body.



Photo 11



Photo 12

Removing the Brake Cooling Fan

1. Remove the engine compartment hood.
2. Locate the brake cooling fan in the front LEFT area of the engine compartment (viewed from the front of the vehicle). **Photo 1**
3. Remove hose from both intake side and output (blower) side of fan. **Photo 2** Unfasten gear clamps securing each hose to fan. **Photo 3**



Photo 1

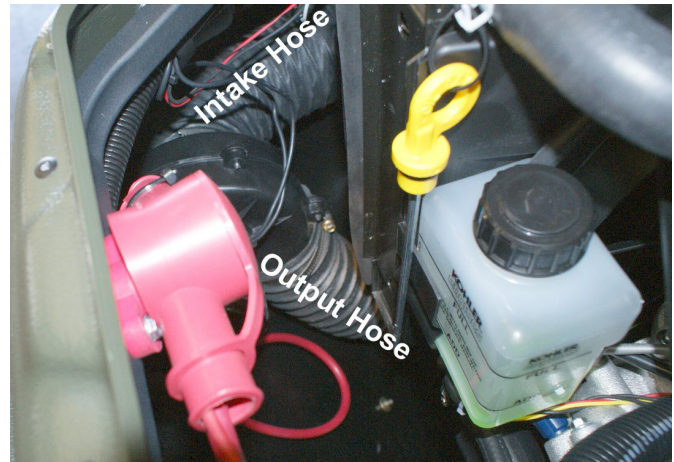


Photo 2



Photo 3



Photo 4

4. CAREFULLY drill out the (4) rivets at the front of vehicle that secure the fan to the lower body. **Photo 4**
5. Disconnect the wiring from the fan (2 wires) and pull the assembly out through the front of the vehicle.
6. Place the fan assembly on a clean workbench and remove the mounting bracket. **Photo 5**

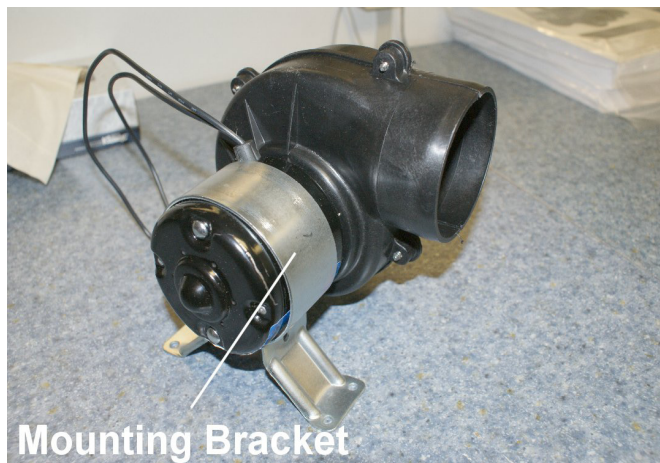


Photo 5

Installing the Brake Cooling Fan

1. Reinstall the mounting bracket to the brake cooling fan.
2. Place the blower fan/bracket assembly back into the vehicle and rivet back into position.
3. Position the outlet of the fan down towards the front of the vehicle and tighten the mounting bracket to secure it in that position.
4. Connect the brake cooling outlet hose and secure with the gear clamp.
5. Connect the intake hose and secure with the gear clamp.
6. Reconnect the wiring.
7. Replace hood.

Removing the Engine Starter Motor

1. Remove the vehicle hood.
2. Locate the starter motor at the front of engine.
3. Disconnect all wiring at the starter solenoid post. *Photo 6*

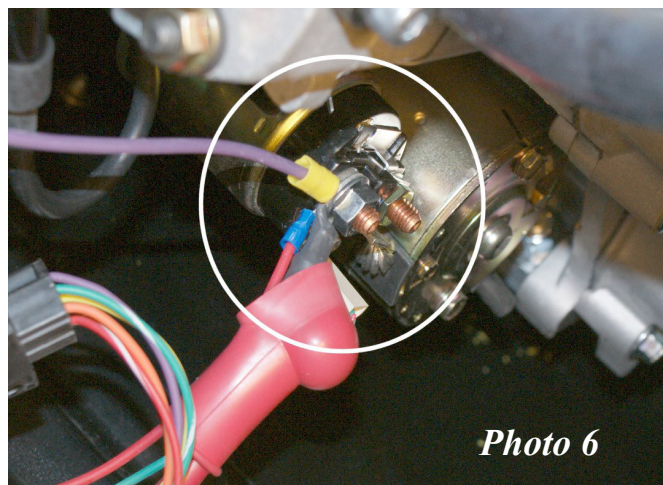
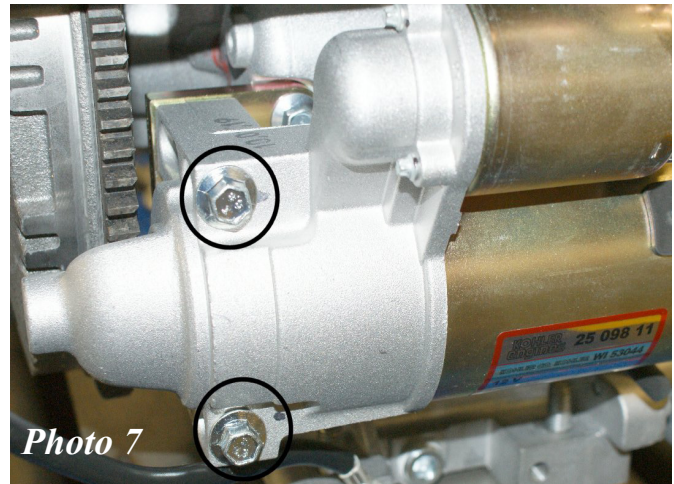


Photo 6

4. Remove the (2) fasteners securing the starter motor to the adapter plate. **Photo 7**
5. Remove the starter from the vehicle.

Installing the Engine Starter Motor

1. Place the starter into the engine compartment and secure to the adapter plate with the two required hex flange screws. **Photo 7**



IMPORTANT

Make sure the starter is square with the flywheel and torque the two hex flange screws to 135 in.lbs. (15.3N-m)

2. Reconnect all wiring to the starter solenoid post. Refer back to **Photo 6**

Calibrating the Digital Gauge Package

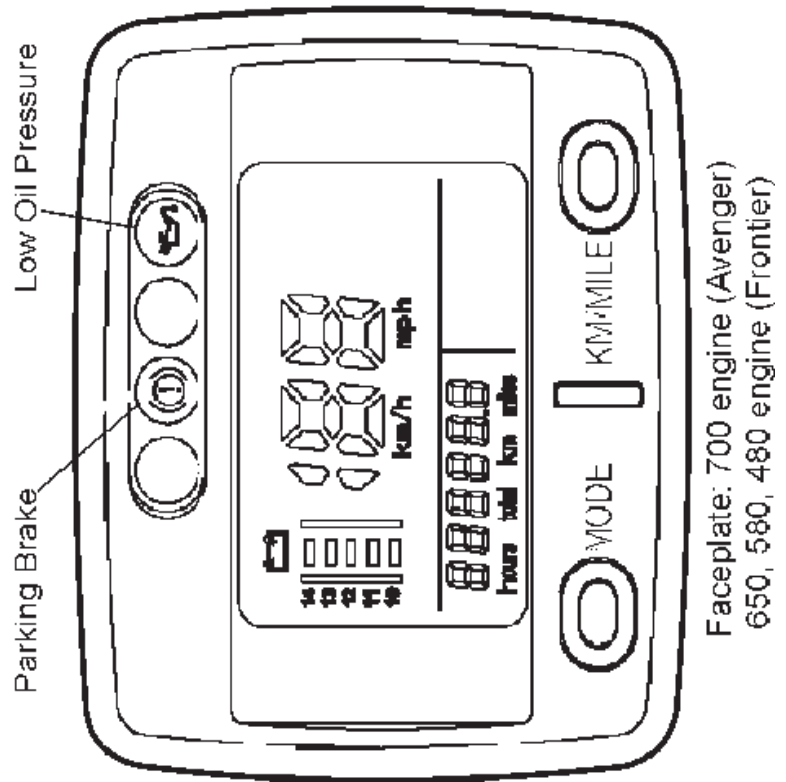
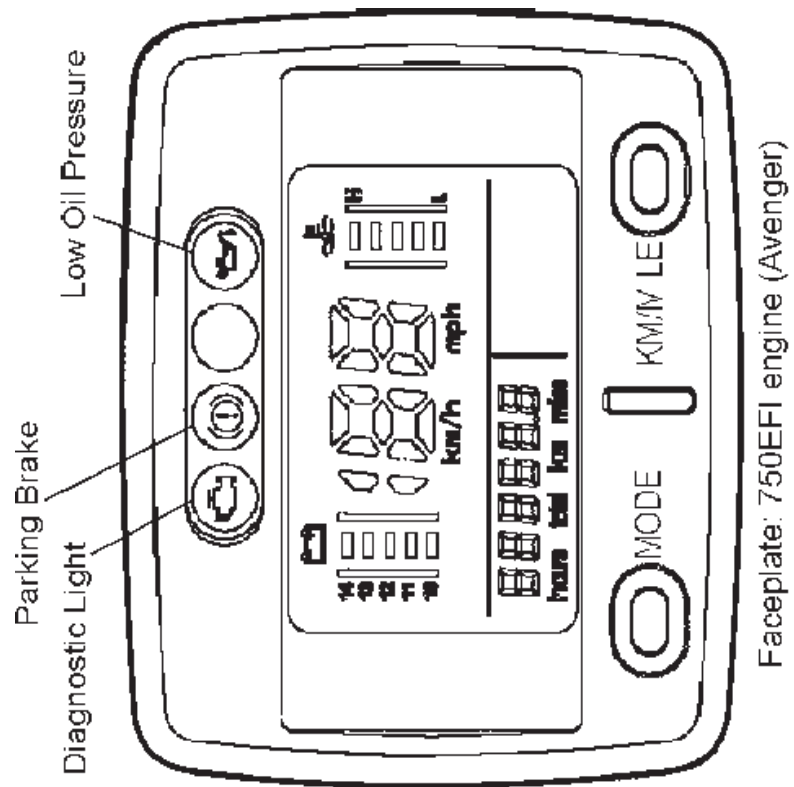
1. Hold down both the “MODE” and “KM/MILE” buttons and turn the key to “Run” (release buttons) Two (2) “Horizontal” bars on water temp. must be flashing for Avenger setup.

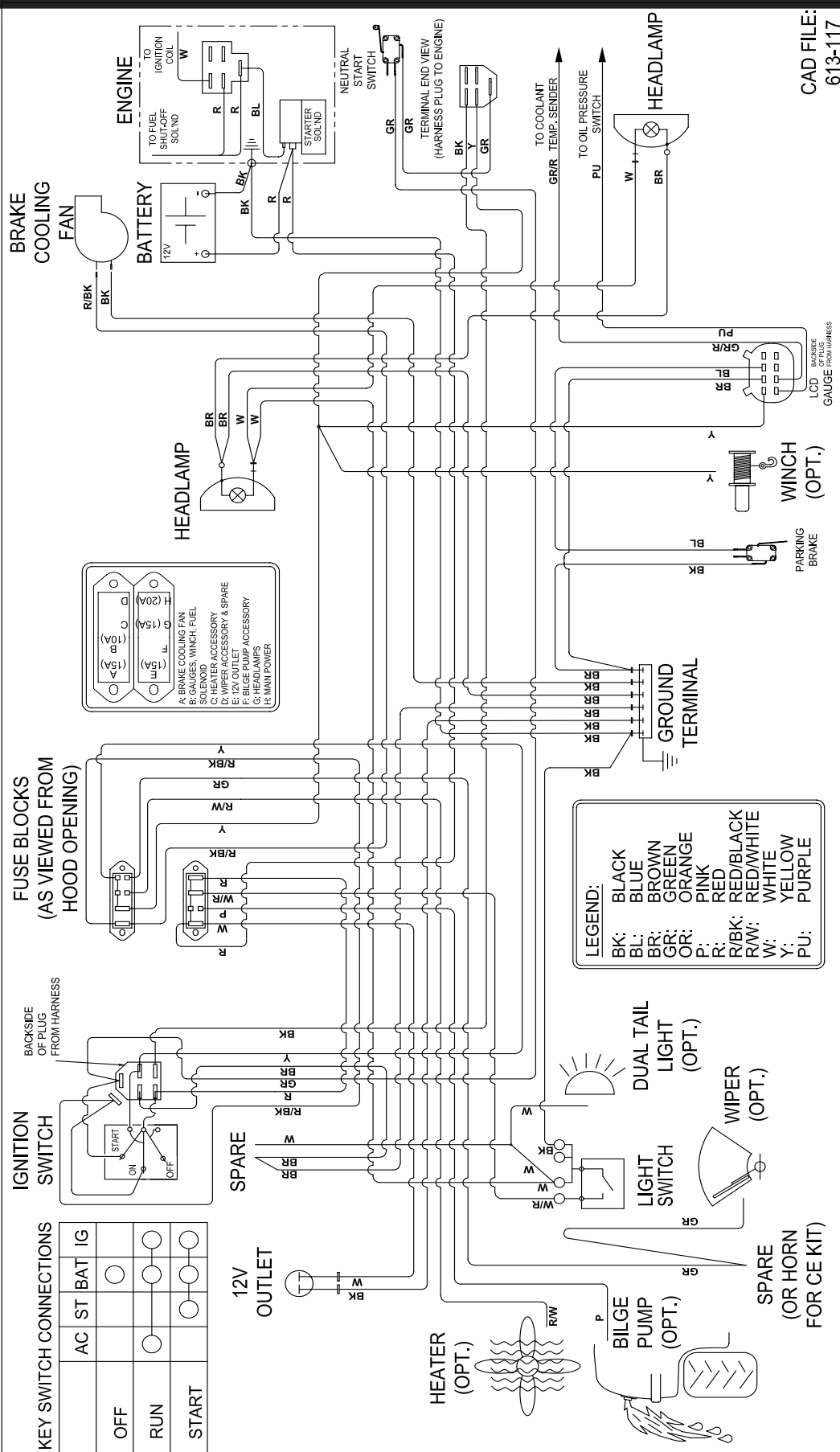
NOTE

If no “Horizontal” bars are flashing after step 1, press “KM/MILE” button directly (and release) until they do.

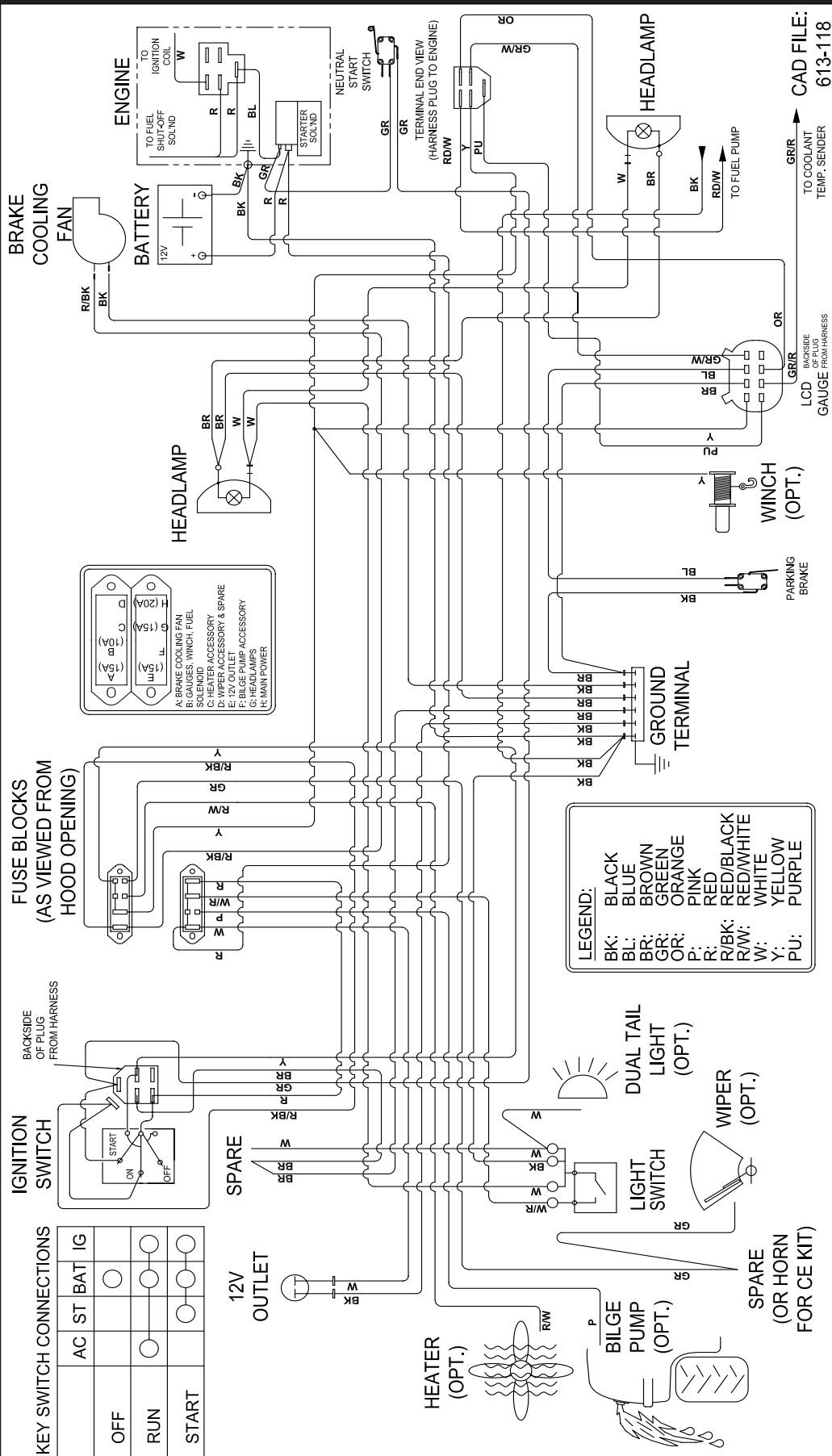
3. **Avengers** - press “MODE” (and release)
Frontiers - press “KM/MILE” to eliminate the 2 flashing “Horizontal” bars first, then press MODE (and release).
4. 001 will be flashing in bottom left corner, press “KM/MILE” to change to 002, press “MODE”
5. 25.0 will be flashing, keep pressing “KM/MILE” to change:
 - 23.6 for 8x8 HDi with Argo Tires (25”)
 - 20.4 for 8x8 with Frontier tires (24”)
 - 21.2 for 8x8 Avenger with Rawhide III \ Argo tires (25”)
 - 19.2 for 6x6 with Rawhide III \ Argo tires (25”)
 - 22.0 for 6x6 & 8x8 Frontiers with Argo tires (24”)

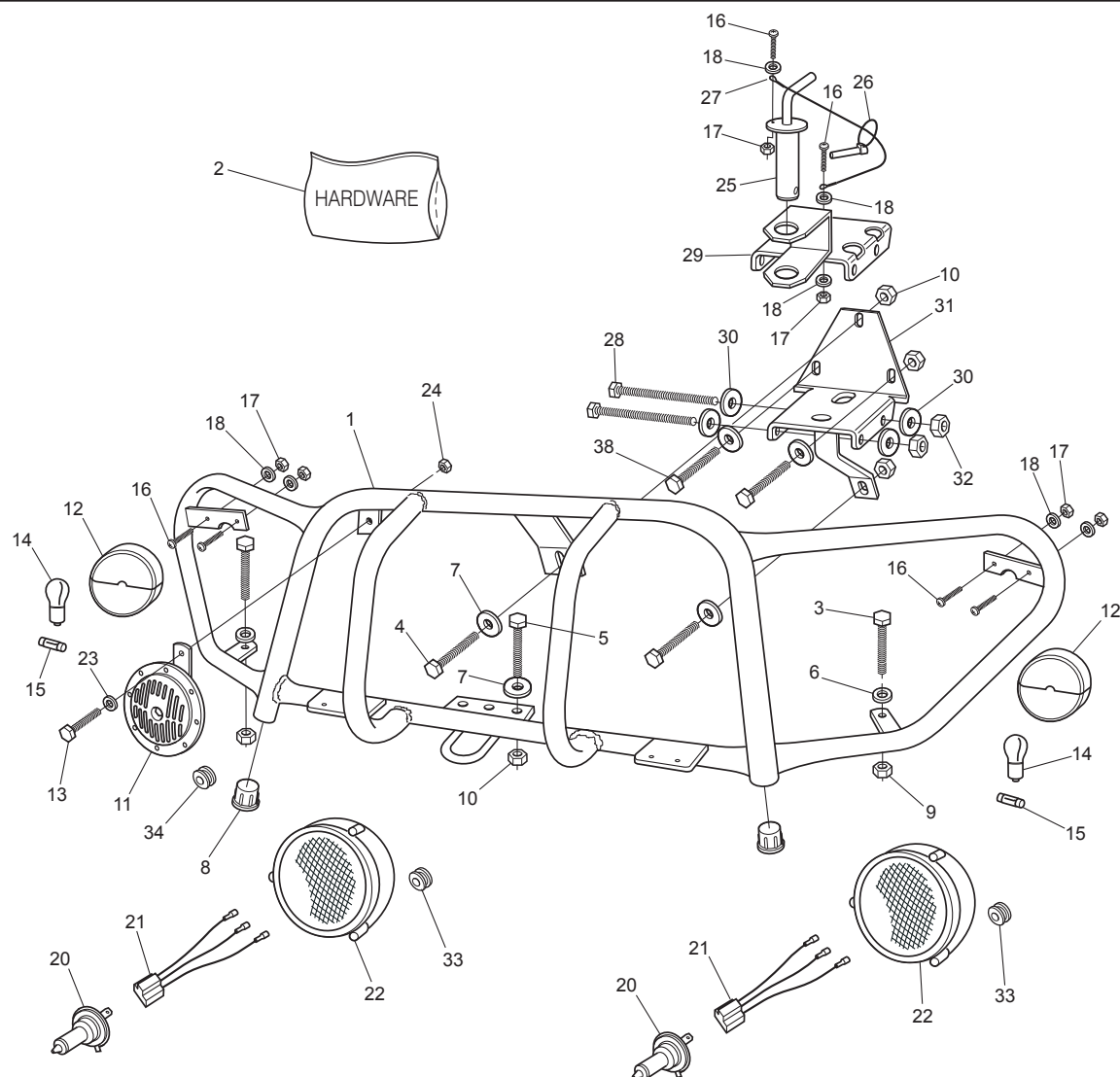
6. Press "MODE" once number is reached.
7. A third number will flash (for tachometer calibration). Press "KM/MILE" to change to:
 013 For all Avenger Models (Kohler Engines)
 010 For all Frontier Models (Briggs Engines)
8. Press "MODE" once number is reached.
9. A single digit will be displayed, turn key to off position and run vehicle as usual.





EFI MODELS





Ref.	Qty.	Part #	Description
1	1	642-61	Brush Guard, Hella Light Acc.
2	1	642-20HDW	Hardware Kit comprised of:
3	2	103-57	HHCS 5/16-18 x 1.5 Gr5 Zn
4	1	103-76	HHCS 3/8-16 x 1.75 Gr5 Zn
5	3	103-82	HHCS 3/8-16 x 1.5 Gr5 Zn
6	2	108-12	Washer .34 x 1.00 x .06 Zn
7	7	108-18	Washer .40 x 1.37 x .12 Zn
8	2	113-13	Plug, 1-1/4" Tube- Avg
			Brush Guard
9	2	117-21	Locknut, Nylon 5/16-18 Zn
10	4	117-29	Locknut, Nylon 3/8-16 Zn
11	1	613-144	Horn, Hella
12	2	613-142	Turn Signal and Marker, Hella
13	1	103-06	HHCS 5/16-18x1.0 Gr5 Zn
14	2	613-169	Bulb, EU Tail, Turn Signal
15	2	613-170	Bulb, EU Fr Marker
16	7	103-25	PHMS 10-24x3/4 Zn
17	6	117-10	Locknut, 10-24 N/I Zn
18	4	120-05	Washer .19x.50x.04 Zn

⚠ WARNING

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Assembling the EU Vehicle

1. Start at the front of the vehicle. **Photo 1**



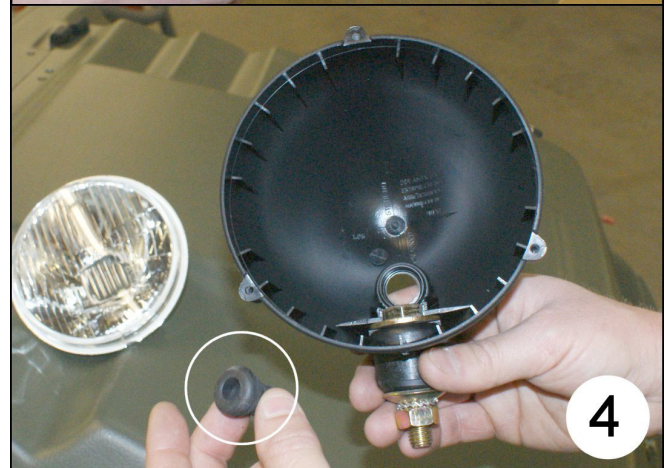
2. Locate the Headlamp and remove the 3 screws securing the bezel to the body of the headlamp. **Photo 2**



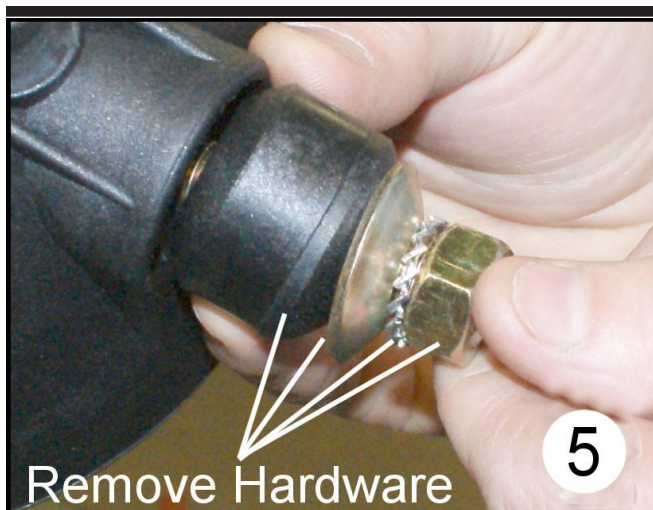
3. Remove the seal and the lens from the headlamp housing. **Photo 3**

NOTE

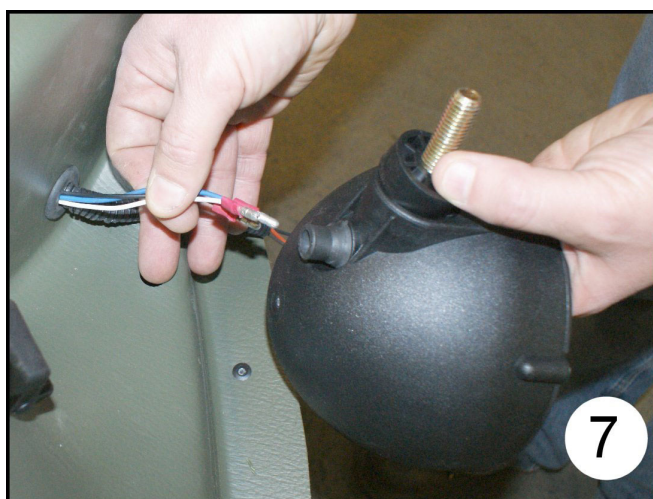
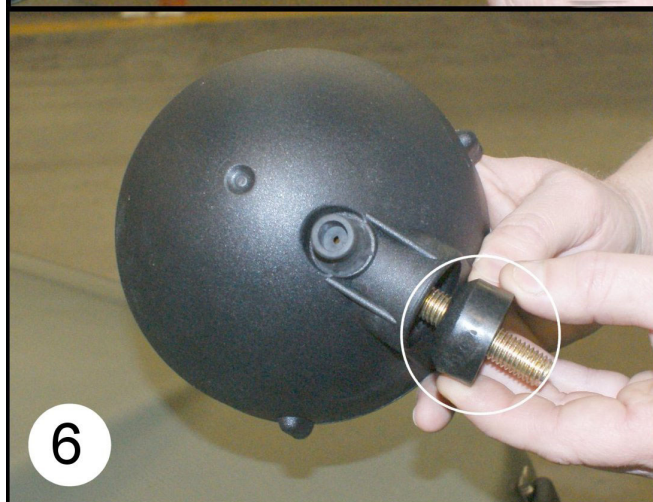
Locate the rubber grommet stored inside the housing of the headlamp. Photo 4



4. Remove all the mounting hardware from the headlamp except for the last plastic spacer. **Photo 5 & 6**
5. Feed the wiring through the rubber grommet at the back of the headlamp. **Photo 7 (Excluding the loomed wiring)**



Remove Hardware



7. On the inside of the vehicle, place the mounting hardware to the stud in the order as shown in ***Photo 10, 11 & 12***



6. Mount the headlamp to the upper body.
Photo 8 & 9



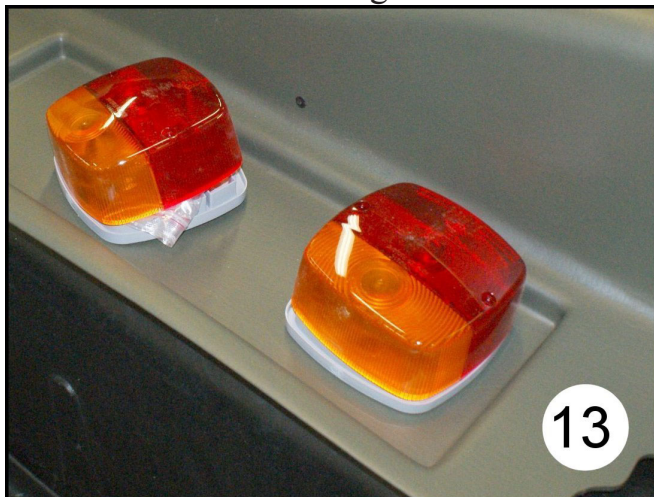
11



12

8. Repeat for second headlamp.

9. Locate the rear tail lights. *Photo 13*



13

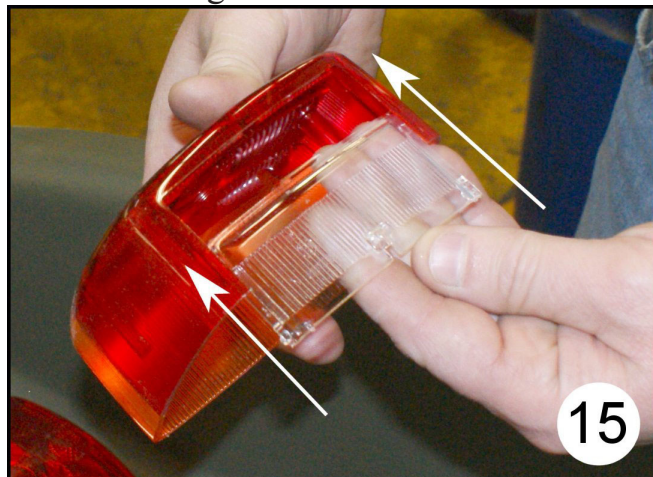
10. Remove the clear plastic lens from the bag supplied with the rear tail light. *Photo 14.*



Clear Plastic Lens

14

11. Slide the clear lens into the side of the rear tail light. *Photo 15*

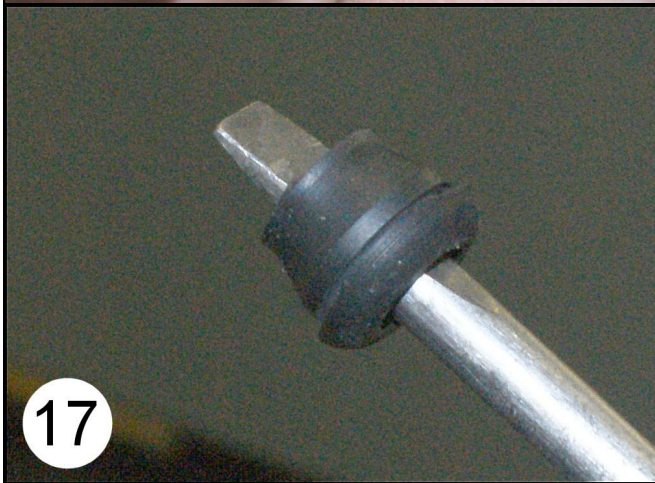


15

12. Locate the rubber grommet for the rear tail light wiring and pierce the slot with a screwdriver. *Photo 16 & 17*

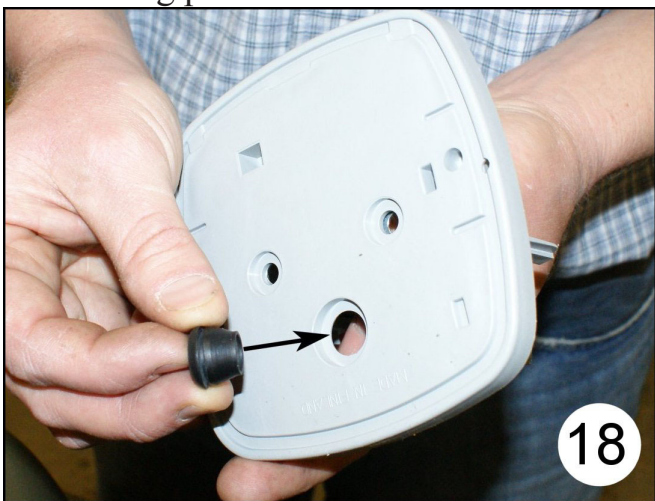


16



17

13. Install the rubber grommet into the backing plate. **Photo 18**



18

14. Remove the tail light mounting hardware from the bag. **Photo 19**



19

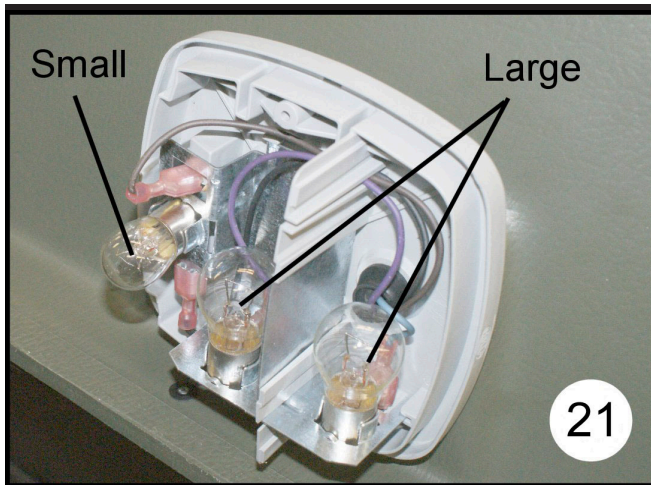
15. Feed the wiring through the grommet of the rear tailight backing plate.

Photo 20

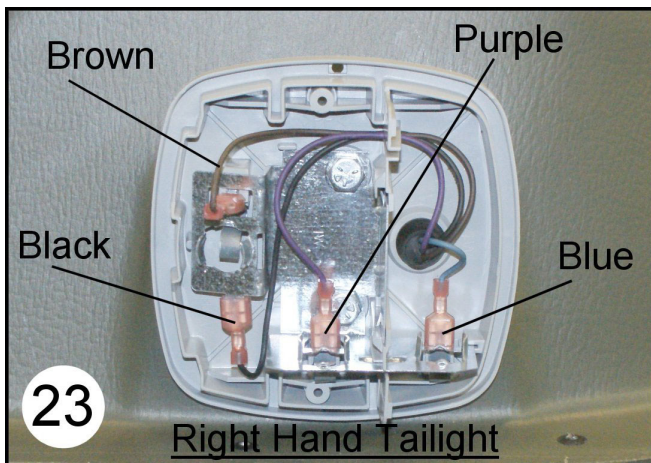


20

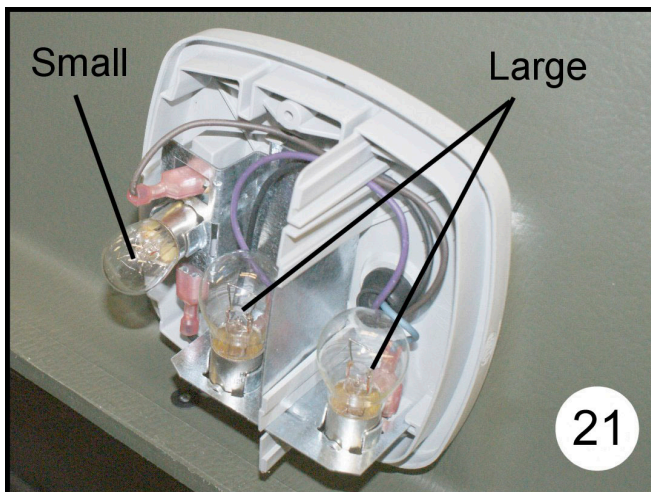
16. Using the mounting bolts shown in **Photo 21**, install the Right Hand tail light assembly to the required location. Orient the tail light assembly so that the vertical upright bulb (small) when installed, will be facing to the centre of the vehicle (for license plate illumination). See Photo 24. Refer to the illustrated parts list for mounting hardware details.



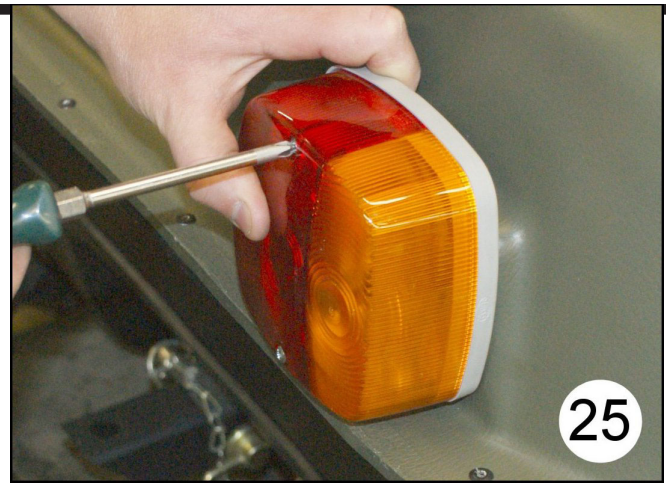
17. Connect wiring as illustrated in **Photo 23**



18. Install bulbs as illustrated in **Photo 24**.



19. Secure the tail light lens with the hardware provided. **Photo 25**

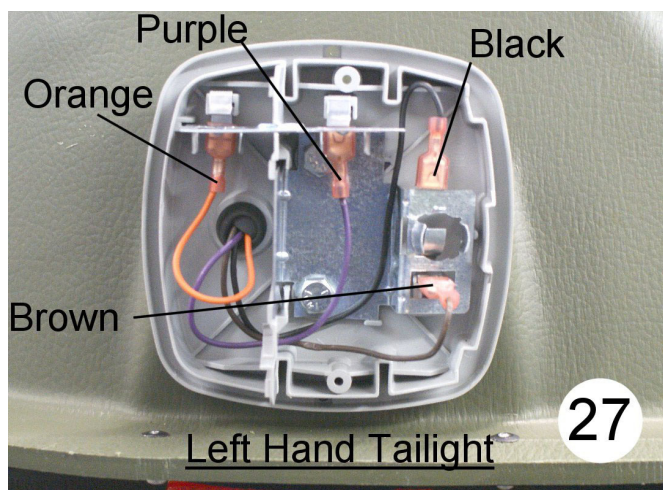


NOTE

Attach the tail light lens with the clear side lens panel facing inwards. **Photo 26**

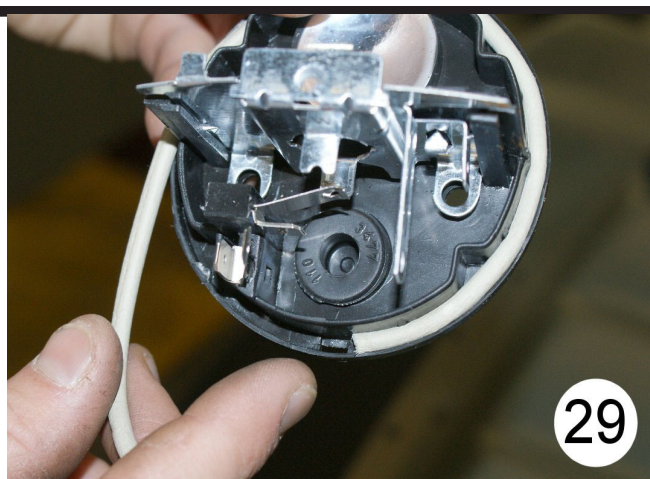
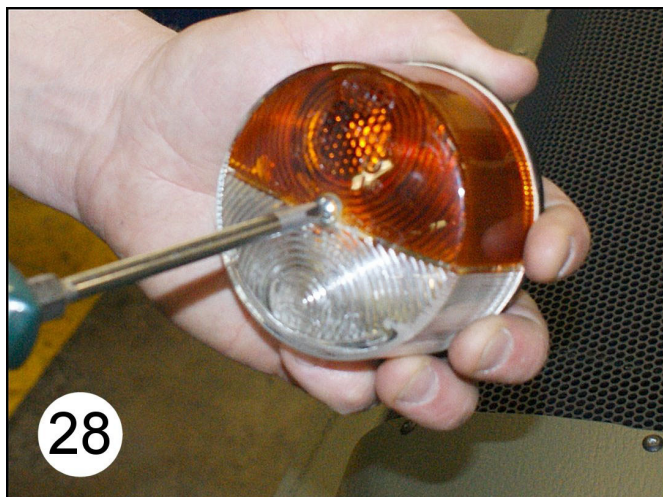


20. Repeat steps 9 through 19 for the Left Hand tail light and wire as in **Photo 27**



21. Locate the front signal light and remove the lens. **Photo 28**

22. Remove the rubber seal. **Photo 29**



23. Reinstall the rubber seal around the perimeter of the lens so that the seam is located at the bottom (near the rubber grommet) Trim a short piece so there is a small gap for draining purposes. Photos 30 & 31





31

24. Repeat for the second front signal light and set both aside for mounting later to the brushguard.
25. Locate the short wire harness for the front signal/running lights and connect it to the wiring of the previously mounting headlamps. Red to Blue, Yellow to White and Black to Black **Photos 32 & 33**



32

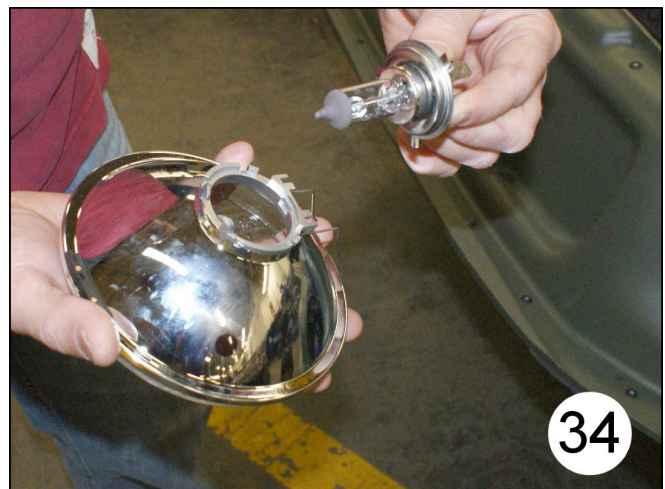
26. Install the halogen bulb to the headlamp lens. **Photo 34**

IMPORTANT

Avoid touching the bulbs with your fingers. Exposure to the salts and oils in your fingers can lead to premature bulb failure. Use cotton gloves if necessary.

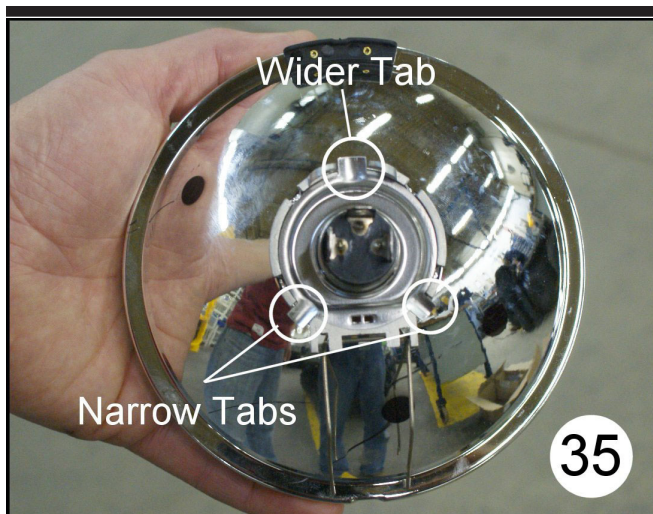


33

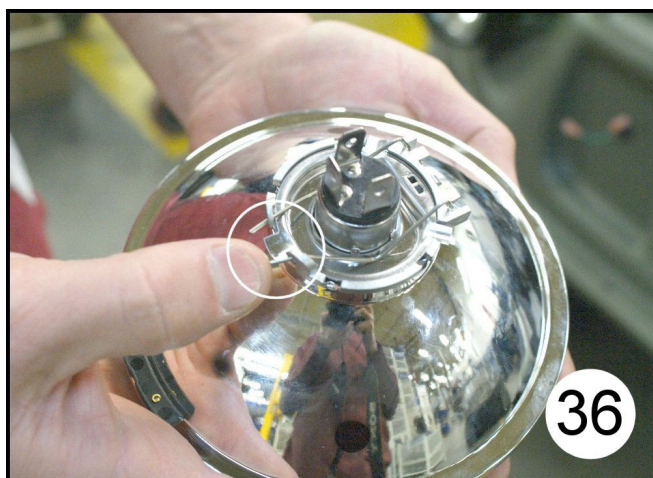


34

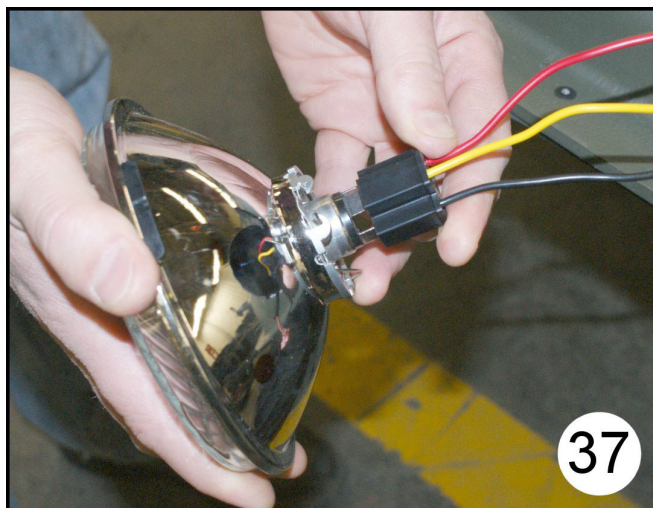
27. Orient the bulb as in **Photo 35**



28. Secure the bulb as in **Photo 36**



29. Plug the headlamp wire harness into the bulb. **Photo 37**



30. Install the headlamp lens and place the rubber seal around the perimeter.

Photo 38



31. Install the bezel to secure the lens in place with the 3 screws previously removed in step 2. **Photo 39**



32. At the front of the vehicle remove the hardware illustrated in **Photo 40**



33. Temporarily install the brushguard using a single fastener at the top location.
Photo 41



34. Ensuring the brushguard is straight across the front of the vehicle, drill the lower 3 holes in the brush guard frame from the bottom up. *Photo 42*



35. Loosely install the hardware as in *Photo 43*



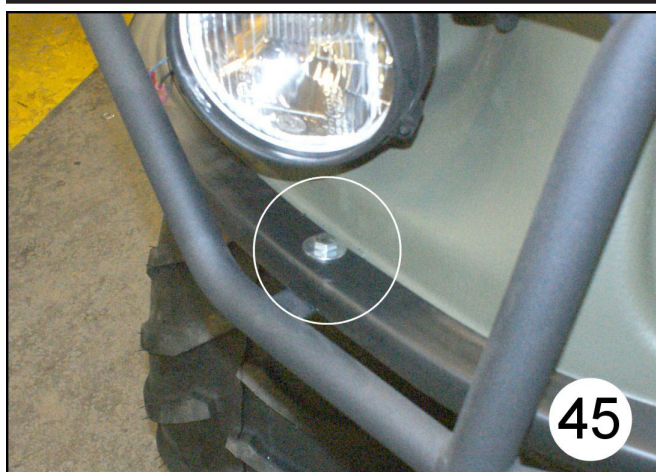
36. Locate the (2) two side tab mounts of the brushguard and drill from the bottom up. *Photo 44*

CAUTION

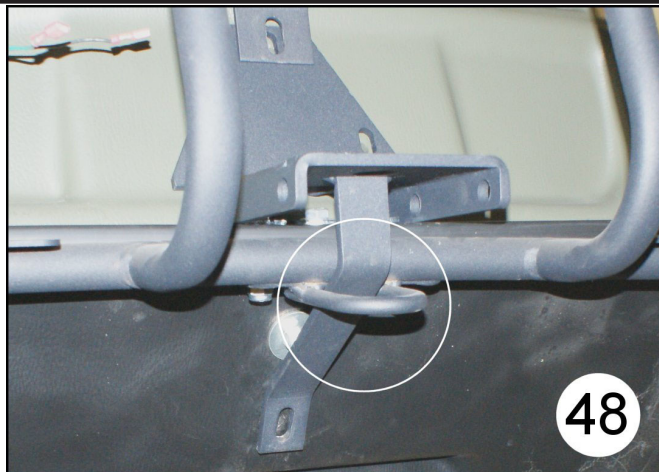
Ensure the brushguard is evenly spaced from the bumper on both sides at these tab locations before drilling any holes



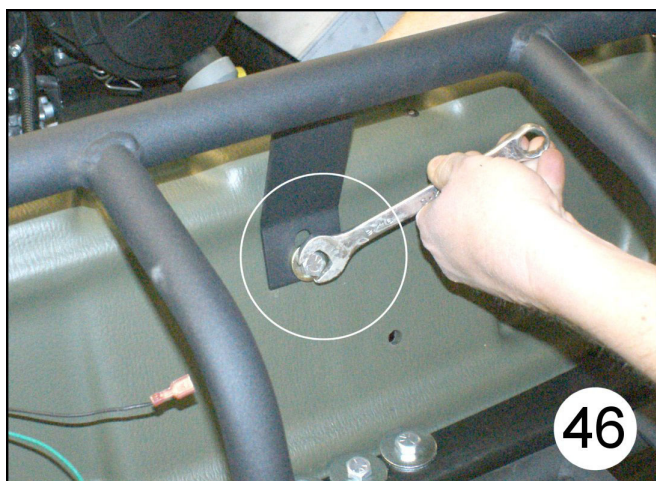
37. Mount each location with the hardware provided and illustrated in the parts list.
Photo 45



38. Remove the top mounting bolt of the brushguard. **Photo 46**



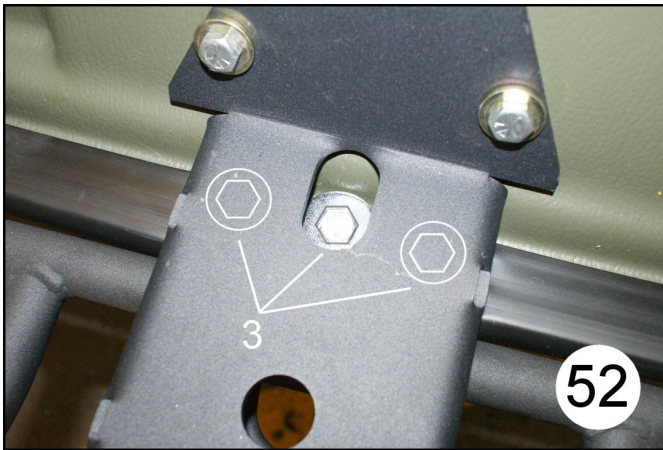
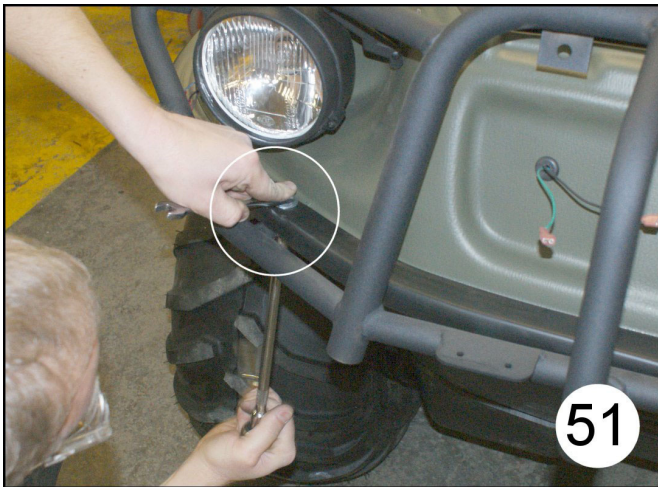
40. Install the hardware as illustrated in **Photos 49 & 50** and secure tightly.



39. Install the Receiver Assembly as illustrated in **Photos 47 & 48**



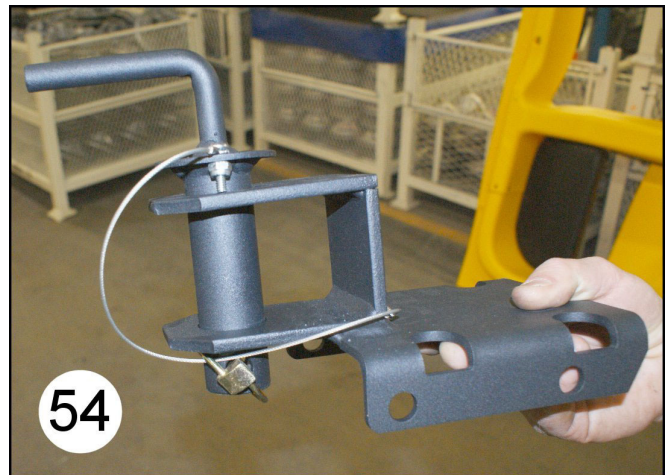
41. Secure all hardware of brushguard as illustrated in **Photos 51 & 52**



42. Assemble the front tow hitch assembly as illustrated in **Photo 53** (including lanyard and lynch pin). Use the required hardware as listed in the illustrated parts list.



43. Place the tow hook pin into the receiver bracket and secure it with the lynch pin **Photo 54**



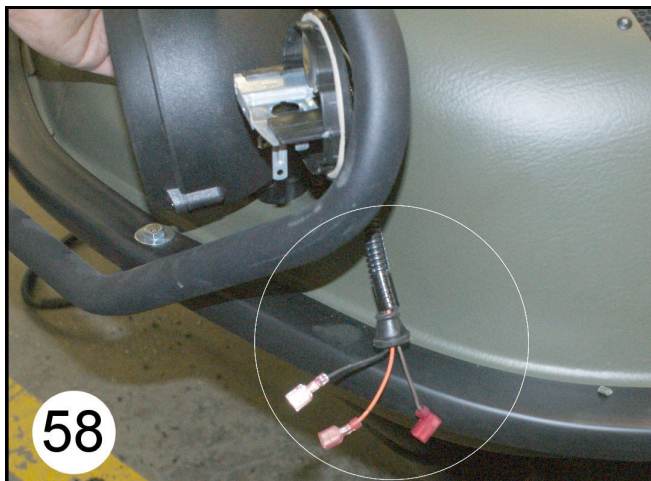
44. Mount the tow hook and bracket to the receiver bracket using the supplied hardware. **Photo 55**



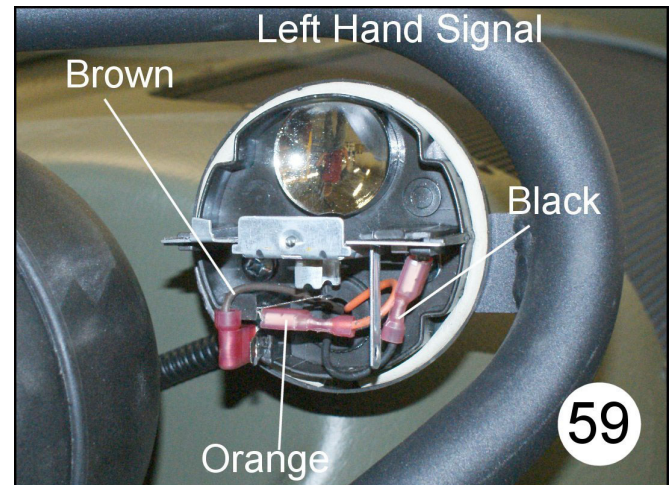
45. Mount the previously prepared **Left Hand Side** Front Signal Light to the brushguard using the supplied hardware. *Photo 56 & 57*



46. Slip the signal light wire through the supplied rubber grommet. *Photo 58*



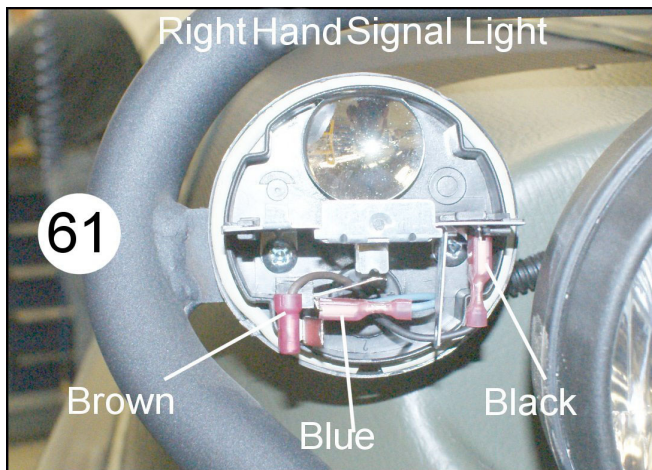
47. Connect the wire as illustrated in *Photo 59*



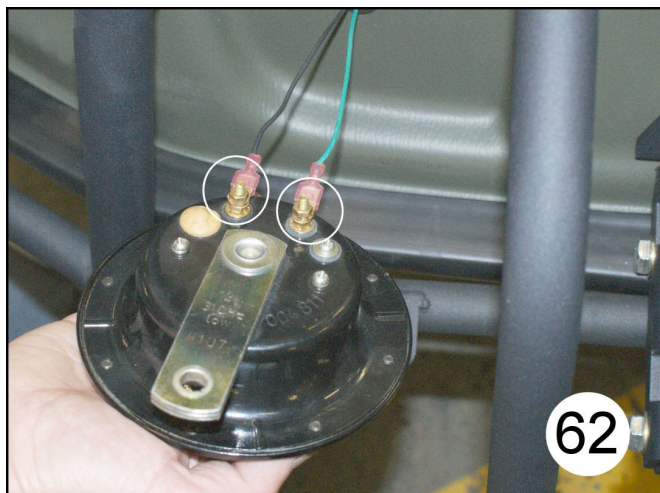
48. Install the lense cover. *Photo 60*



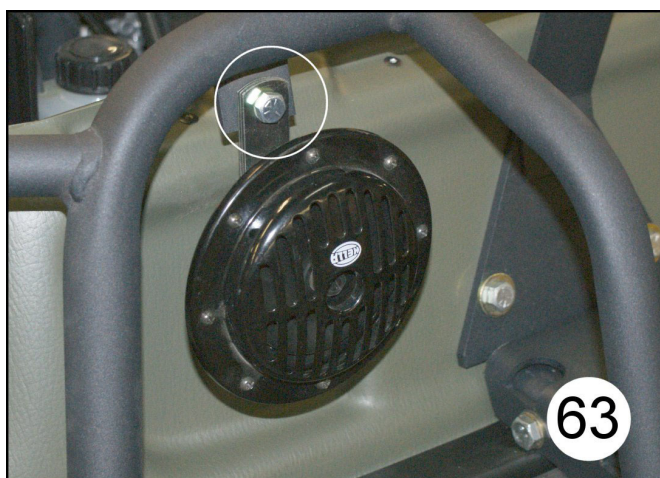
49. Install the **Right Hand Side** front signal light and wire as illustrated in *Photo 61*



50. Connect the wiring to the horn.
Photo 62



51. Fasten the horn to the brushguard and secure with the supplied hardware.
Photo 63



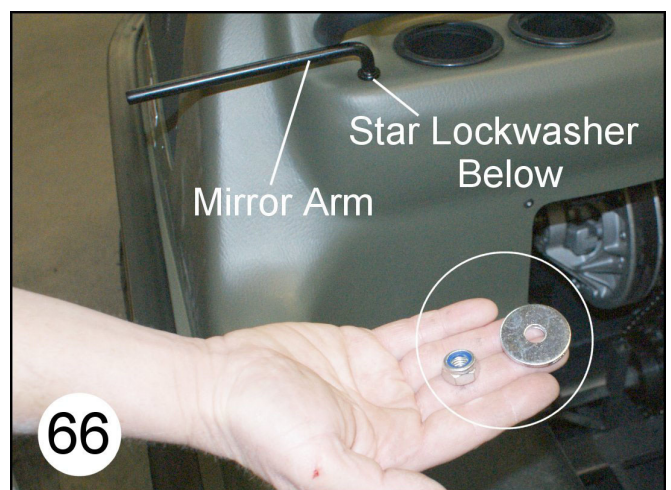
52. See completed front end of EU vehicle.
Photo 64



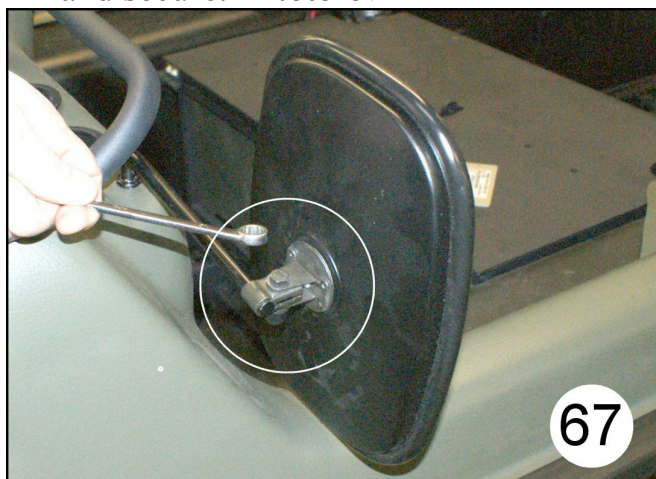
53. See completed view of rear of EU vehicle. *Photo 65*



54. Mount the rear view mirror arm and secure with the supplied hardware.
Photo 66



55. Attach the rear view mirror to the arm and secure. *Photo 67*



56. Remove the seats from the packing box and snip the wire holding the seat in the compressed lower position. *Photo 68*

CAUTION

The suspension seat is in the compressed position when shipped to minimize space in the shipping box. Be careful when snipping the wire that secures it down and be prepared for it to "pop up" when the wire is snipped.



57. Install the rear hand rail to each seat and secure with the supplied hardware. *Photo 69*



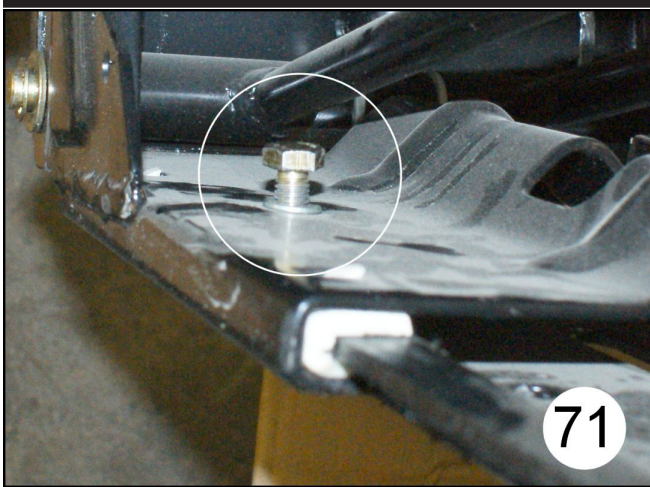
58. Locate the base of the seat and unthread the single bolt that acts as a stop to prevent the seat assembly from sliding off the mounting bracket.

Photo 70

NOTE

You do not need to completely remove this bolt. *Photo 71*





71

59. Slide the mounting plate from the seat base. **Photo 72**

60. Place the seat mounting plate into position in the drivers compartment and align the mounting holes with those on the tool box cover. **Photo 73**



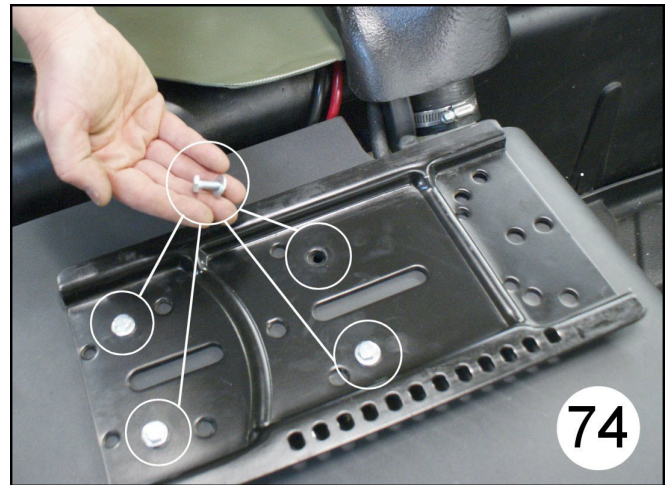
Slide Base From Seat

72

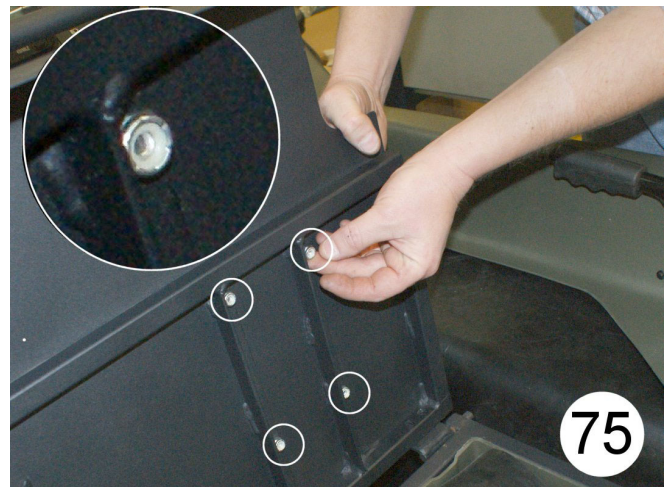


73

70. Secure with the supplied hardware as illustrated in **Photos 74 & 75**



74



75

71. Slide the seat on to the base starting at the front of the base and sliding towards the back. **Photo 76**



72. Adjust the height of your seat by loosening the (2) two side knobs and then re-tightening. **Photo 77**



73. Re-tighten the bolt that was loosened off in step 58. **Photo 78**

