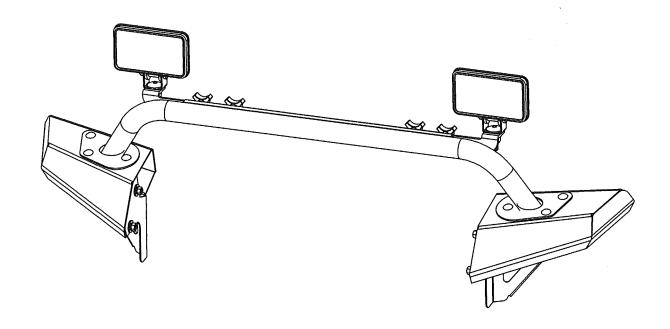
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INSTRUCTION SHEET

V5298 - HITCH UPGRADE KIT

REQUIRES: V5293 4 Point Hitch & Power unit

Estimated installation time: 50 min.

LEGAL DISCLAIMER

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The Product(s) described in this Publication are designed and manufactured only for the country in which they are initially wholesaled by Kubota. Kubota does not provide parts, warranty or service for any Product which is re-sold or retailed in any country other than the country for which the Product(s) were designed or manufactured.

California Proposition 65



Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SAFETY PRECAUTIONS



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

DANGER:

Indicates an immediate hazardous situation which, if not avoided, will

result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could

result in death or serious injury.

A CAUTION:

Indicates a potentially hazardous situation which, if not avoided, may

result in minor or moderate injury.

IMPORTANT:

Indicates that equipment or property damage could result if instructions

are not followed.

NOTE:

Gives helpful information.

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before operation. It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals, to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

BEFORE OPERATION

CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are generally attracted to machines and the work being done. Never assume children will remain where you last saw them.

- 1. Keep children out of the operating area and under the watchful eye of another responsible adult.
- 2. Be alert and turn machine off if children enter the work area.
- 3. Before and when backing, look behind for small children.

- 4. Never carry children while operating the machine. They may fall off and be seriously injured or interfere with the safe operation of the machine.
- 5. Never allow children to play on the machine or attachment even when they are turned off.
- 6. Never allow children to operate the machine even under adult supervision.
- 7. Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.

SAFETY PRECAUTIONS

THE VEHICLE

General Information

- Read the operator's manual carefully before using vehicle. Lack of operating knowledge can lead to accidents.
- Do not allow passengers on the vehicle at any time (except one on the passenger seat). The operator must sit in the driver seat.

Operating the Vehicle

- Never run the vehicle engine in a closed building without adequate ventilation, as the exhaust fumes are very dangerous.
- 2. Never allow an open flame near the fuel tank or battery.
- 3. Park the vehicle/implement on level ground, place the transmission in neutral, set the parking brake, disengage the driving system, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key BEFORE leaving the vehicle.
- **4.** Never park the vehicle on a steep slope.
- 5. Do not attempt to operate on steep slopes.
- **6.** Use of tire chains for better traction and stability is recommended.
- Always drive the vehicle at speeds compatible with safety, especially when operating over rough ground, crossing ditches, or when turning.
- **8.** Handle fuel with care, as it is highly flammable.
- 9. Use approved fuel container.
- **10.** Never add fuel to a running engine or a hot engine.

- **11.** Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up spilled fuel.
- **12.** Never allow anyone to operate the equipment until they have read the manual completely and are thoroughly familiar with basic vehicle and implement operation.
- 13. Make sure the vehicle is counterweighted as recommended by your dealer. Weights provide the necessary balance to improve stability, traction and steering. Use only those recommended by your dealer.
- **14.** Always make sure all components are properly installed and securely fastened BEFORE operation.

During Operation

- Do not allow anyone to ride on the vehicle/equipment at any time. There is no safe place for passengers on this equipment (except one on the passenger seat). The operator MUST sit in the seat.
- **2.** Eye and hearing protection is recommended when operating the equipment.
- **3.** Operate only during daylight hours, or when the area is well lit with bright artificial light.
- 4. Park the vehicle/implement on level ground, place the transmission in neutral, set the parking brake, disengage the driving system, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key BEFORE leaving the vehicle.
- 5. Inspect the equipment after striking any foreign object to assure that all equipment parts are safe and secure and not damaged.

SAFETY PRECAUTIONS

MAINTENANCE

ALWAYS USE GENUINE PARTS WHEN REPLACEMENT PARTS ARE REQUIRED

- **1.** Keep the vehicle and implement properly maintained.
- Provide adequate blocking before working under the front implement when in raised position.
- 3. Park the vehicle/implement on level ground, set the parking brake, lower the implement to the ground, place all control levers in neutral, shut off the engine and remove the ignition key and allow the rotating parts to stop BEFORE making any implement adjustments.
- 4. To avoid injury, do not adjust, unblock the driving system, or service the implement with the vehicle engine running. Make sure rotating components have completely stopped before leaving the operator's seat.
- Keep the vehicle/implement clean. Snow, dirt or ice build-up can lead to malfunction or personal injury from thawing and refreezing in garage.
- **6.** Always wear eye protection when cleaning or servicing the implement or frame.
- 7. DO NOT service the vehicle while the engine is running or hot, or if the unit is in motion. Always lower implement to the ground. If necessary to service implement in raised position, securely support with stands or suitable blocking before working underneath. Do not rely on support devices already on the vehicle for your safety. They can settle suddenly or be accidentally lowered.
- 8. Do not attempt to service machine with the engine running. Always shut off engine and allow all motion to cease.
- 9. The manufacturer will not claim responsibility for fitment of unapproved parts and/or accessories and any damages as a result of their use.
- 10.Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
- 11.Do not modify or alter this implement or any of its components or operating functions. If you have questions concerning modifications, consult with your dealer.

- **12.**Do not operate a unit that is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the unit.
- **13.**Check all controls regularly and adjust where necessary. Make sure that the brakes are evenly adjusted.
- **14.**Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts.
- 15. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks. If you are injured by escaping high pressure fluid, see a medical doctor at once.
- 16.Stop engine and relieve pressure before connecting or disconnecting hydraulic lines. Tighten all connections before starting engine or pressurizing lines.

STORAGE

Before storing the subframe or implement, certain precautions should be taken to protect it from deterioration.

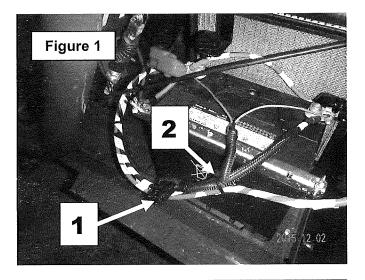
- **1.** Clean the subframe and implement thoroughly.
- 2. Make all the necessary repairs.
- 3. Replace all safety signs that are damaged, lost, or otherwise become illegible. If a part to be replaced has a sign on it, obtain a new safety sign from your dealer and install it in the same place as on the removed part.
- **4.** Repaint all parts from which paint has worn or peeled.
- **5.** Lubricate the subframe and implement as instructed under "Lubrication" section.
- **6.** When the subframe and implement are dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
- 7. Store in a dry place.
- 8. If equipment has hydraulic components, install protective plugs and caps on the quick couplers.

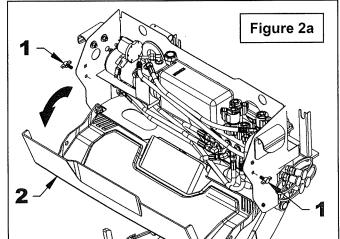
<u>WARNING:</u> To avoid serious personal injury or death: <u>Read and understand the SAFETY PRECAUTIONS on previous pages</u> before installation and operation Perform all assembly with unit properly blocked and supported. Torque all the bolts and the fittings according to the Torque Specification Table enclosed at the end of the Instruction Sheet.

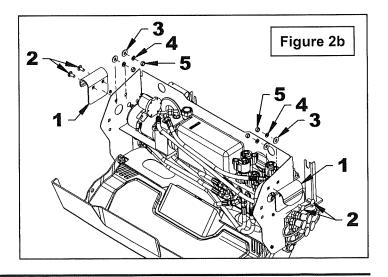
INSTALLATION

NOTE: For move visibility, the vehicle and the electric harness are not shown in the figures.

- **1. Figure 1:** Remove the panel for the battery. Remove the fuse (item 1) on the electric harness (item 2) of the V5293. Keep the fuse (item 1) for reinstallation.
- 2. Figure 2a: Remove the two 5/16" x 3/4" plastic tee head thumb screws (item 1). Keep them for a further reinstallation. Pull forward the top of the plastic guard (item 2) to open the power unit.
- 3. Figure 2b: Remove and discard the two lift handles (item 1) and the hardware by removing the two 5/16"NC x 3/4" carriage bolts (item 2), 5/16" flat washers (item 3), 5/16" lockwashers (item 4) and 5/16" hex nut (item 5) on each lift handle.

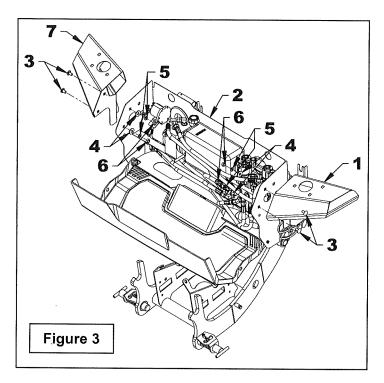


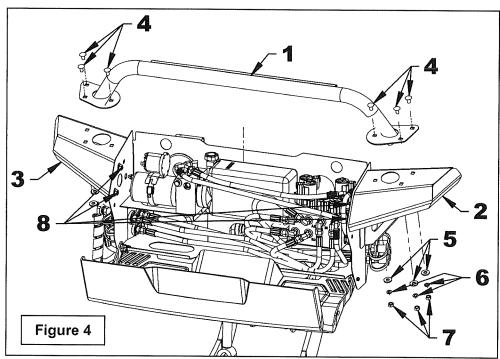




- 4. Figure 3: Install the left brush away bar bracket (item 1) on the side of the power unit (item 2) as shown in figure, with two 5/16"NC x 5/8" carriage bolts (item 3), two 5/16" flat washers (item 4), two 5/16" lockwashers (item 5) and two 5/16" hex nut (item 6). Do not tighten.
- 5. Figure 3: Install right brush away bar bracket (item 7) on the side of the power unit (item 2) as shown in figure, with two 5/16"NC x 5/8" carriage bolts (item 3), two 5/16" flat washers (item 4), two 5/16" lockwashers (item 5) and two 5/16" hex nut (item 6). Do not tighten.
- 6. Figure 4: Install the brush away bar (item 1) on the two brush away bar brackets (items 2-3) and secure with six 5/16"NC x 5/8" carriage bolts (item 4), six 5/16" flat washers (item 5), six 5/16" lockwashers (item 6) and six 5/16" hex nuts (item 7). Do not tighten.

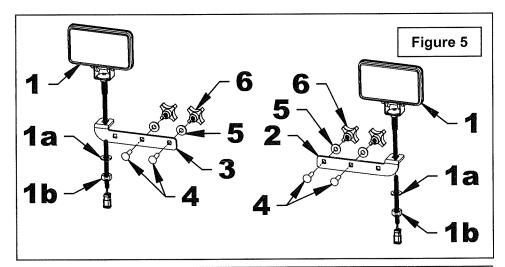
7. Figure 4: Torque the two nuts (item 8) of each brush away bar brackets (items 2-3) then tighten the six nuts (item 7) of the brush away bar (item 1).

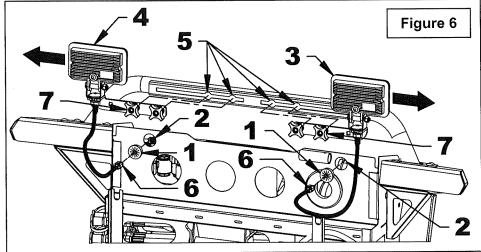




- 8. Figure 5: Unscrew the nut (item 1b) of the worklight (item 1) and pull down the flat washer (item 1a) with the nut (item 1b).
- 9. Figure 5: Insert the worklight wires in the slot of the square hole of the worklight supports (items 2-3). Pull down and insert the carriage bolts of the worklights into the square hole of the worklight supports (items 2-3). Torque the flat washer (item 1a) and nut (item 1b) of the worklights. Make sure that the worklights are parallel to the supports.
- 10. Figure 5: Insert two 5/16"NC x 1 1/4" carriage bolts (item 4) on one side of each worklight supports (items 2-3) and two 5/16" flat washers (item 5) and two plastic knobs (item 6) on the other side as shown in figure. Do not tighten.

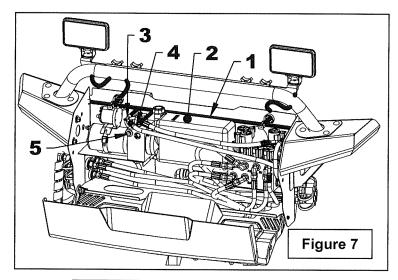
- **11. Figure 6:** Insert the two grommets (item 1) into the holes (item 2) in the back of the power unit.
- 12. Figure 6: Insert the two carriage bolt heads of the worklight support assembly into the two holes in the track of the brush away bar (item 5) and slide them in the track. Slide the supports to the place that is recommended such as to the right for one and to the left for the other.
- **13. Figure 6:** Tighten the two knobs (item 7) of each worklight support assembly (items 3-4).
 - NOTE: You can customize the position of the worklights, by untightening the two knobs (item 7) and sliding the worklight supports in the track. When the position is what you need tighten back the two knobs (item 7).
- **14. Figure 6:** Insert the two Deutsch male connectors (item 6) of the worklight wire into the grommets (item 1).

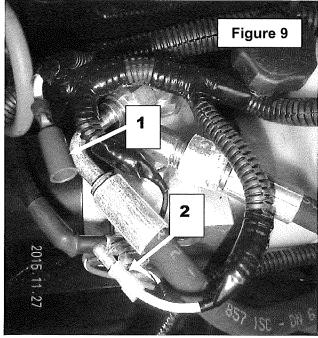


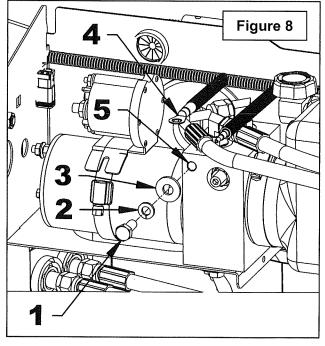


- 15. Figure 7: Drop the worklight wiring harness (item 1; see parts list #7)) behind the hydraulic tank (item 2) of the power unit, placing the round terminal (item 3) and the bullet terminal (item 4) at your left when facing the power unit. Align the round terminal (item 3) with the ground bolt (item 5) on the side of the hydraulic block of the power unit.
- 16. Figure 8: Remove the 5/16"NC x 3/4" ground hex bolt (item 1), 5/16" lockwasher (item 2) and 5/16" flat washer (item 3) on the side of the hydraulic block of the power unit. Some other ground terminals are already connected. Stack the terminal ground, the small blue terminal first then the largest yellow terminal and the last one that is the ground terminal of the 6ga black wire that will be in contact with the hydraulic block.

- 17. Figure 8: Reinstall and torque the 5/16"NC x 3/4" ground hex bolt (item 1), 5/16" lockwasher (item 2) and 5/16" flat washer (item 3) with all the round terminals on the hydraulic block (item 5).
- **18. Figure 9:** Connect the male bullet terminal (item 2) of the worklight harness to the female bullet terminal (item 1) of the electric harness of the V5293 power unit.







- 19. Figure 10: Connect the two Deutsch male connectors (item 1) of the worklight to the two Deutsch female connectors (item 2) of the worklight harness. (The item 3 shows the male and female Deutsch connectors once connected).
- **20.** Figure 11: Close the plastic guard (item 2) and secure the plastic guard with the two plastic tee head thumb screws (item 1) previously removed.
- **21. Figure 12:** Pull upward the cup holder (item 1) of the RTV cabin.
- **22. Figure 13:** Turn counter clockwise the cup holder (item 1) and remove it. Keep the cup holder for reinstallation.

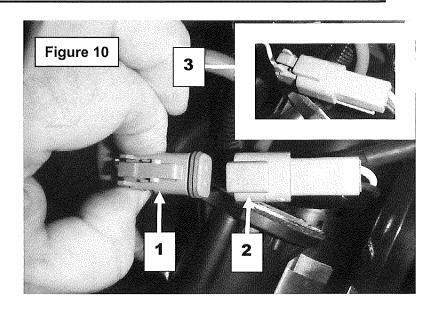
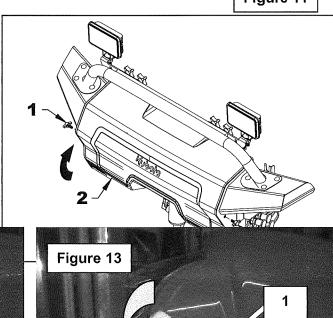
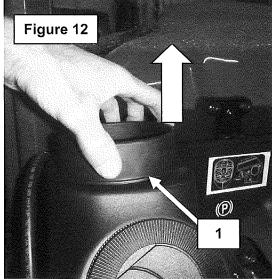
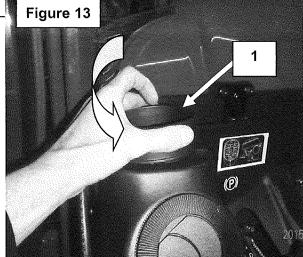


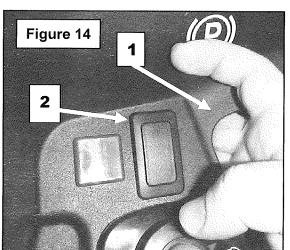
Figure 11

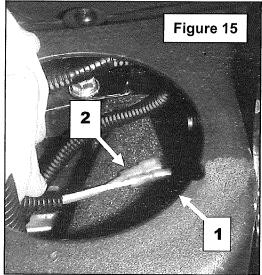


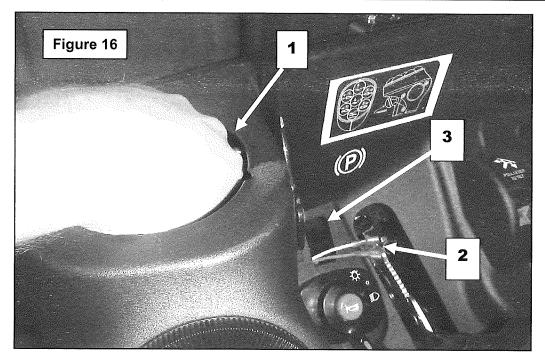




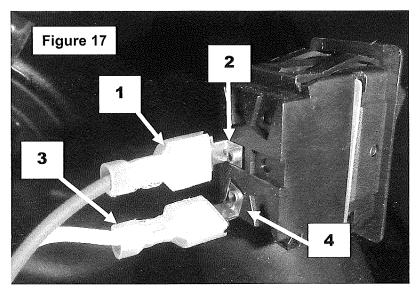
- 23. Figure 14: With a finger pass through the parking brake hole (item 1), remove the rocker switch cap (item 2) located at the left of the parking brake by pushing on the serrated arm on the back of the rocker switch cap and by pushing out to remove it.
- 24. Figure 15: By the cup holder hole (item 1) retrieve the two 1/4" flat terminals (item 2) of the electric harness of the V5293; one with a white wire and one with a red wire.
- 25. Figure 16: Insert your hand in the cup holder (item 1) and take out the two wires (item 2) over the foam into the dashboard and retrieve them through the rocker switch hole in the vehicle dashboard (item 3).



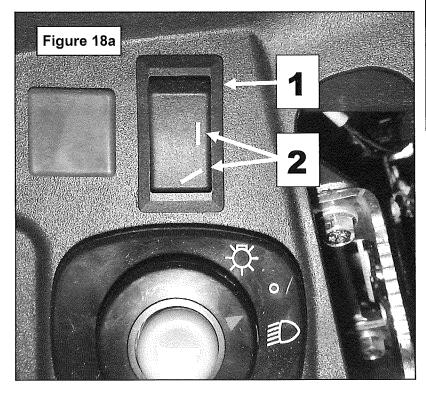


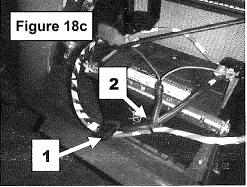


- 26. Figure 17: Connect the 1/4" flat terminal of the red wire (item 1) to the middle terminal (item 2) of the rocker switch. Connect the 1/4" flat terminal of the white wire (item 3) to the other terminal (item 4) of the rocker switch.
- 27. Figure 18a: Clip the rocker switch (item 1) into the dashboard of the vehicle. The terminals of the rocker switch (item 2) must be positioned on the right as shown in figure.
- 28. Snap cup holder into its place.
- 29. Figure 18b: Stick the decal on the switch.
- **30. Figure 18c:** Reinstall the fuse (item 1) on the electric harness (item 2) of the V5293. Reinstall the panel for the battery.

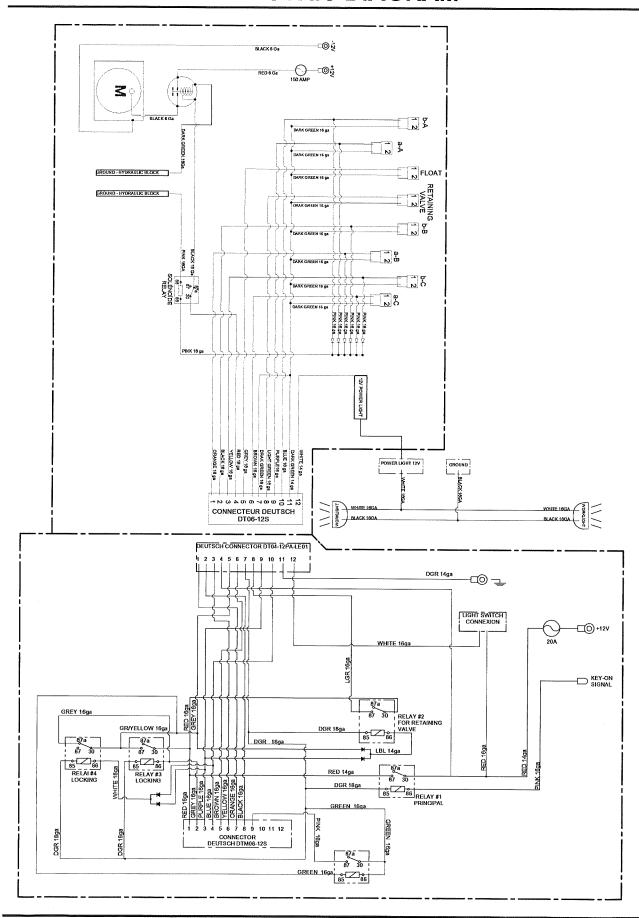








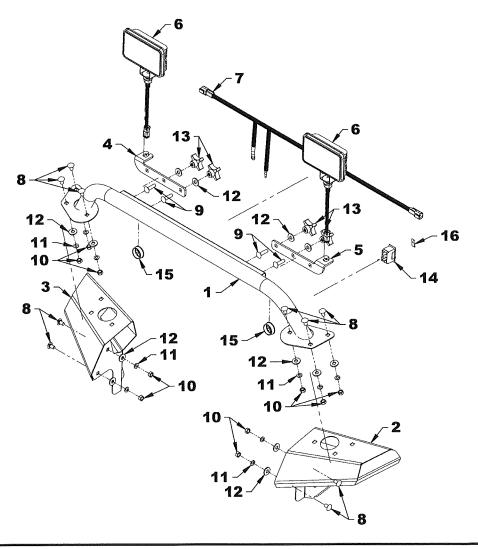
ELECTRIC DIAGRAM



PARTS

PARTS

REF.	DESCRIPTION	QTY	PART#	CODE
1	Brush away bar	1	77700-07119	671320
2	Left brush away bar bracket	1	77700-07159	671321
3	Right brush away bar bracket	1	77700-07160	671322
4	Right light support	1	77700-07161	671348
5	Left light support	1	77700-07162	671349
6	Rectangular led worklight 12 volts - 500 lm	2	77700-06680	4000138
7	Worklight wiring harness	1	77700-07052	4000143
8	Carriage bolt 5/16"NC x 5/8" PTD	10	70060-00787	0300001
9	Carriage bolt 5/16"NC x 1 1/4" PTD	4	77700-01728	0300004
10	Nut hex 5/16"NC PTD	10	75599-31012	0900002
11	Lockwasher 5/16" PTD	10	75599-33012	1200003
12	Flat washer 5/16" PTD	14	75599-32012	1400003
13	Plastic button 4 tabs copper nut 5/16"NC	4	77700-06673	1100036
14	Electric rocker switch 2 blades	1	77700-03212	4000050
15	Grommet guide rigide 7/8"id - ø1 1/4" hole	2	77700-06659	4200052
16	Decal for worklight switch	1	77700-07170	2500988



TORQUE SPECIFICATION TABLE

GENERAL SPECIFICATION TABLE USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

Note:These values apply fasteners as received from supplier dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly sidulphide greases or other extreme pressure lubricants are used. These values apply to dry conditions; under lubricated conditions reduce by 25% the torques in this table.

BOLT HEAD IDENTIFICATION

INCHES Bolt Size	Crada 2		Credo 5			
	Grade 2		Grade 5		Grade 8	
in-tpi ¹	N-m ²	lbs-ft 3	N-m	lbs-ft	N-m	lbs-ft
1/4" – 20NC	7.4	5.6	11	8	16	12
1/4" – 28NF	8.5	6	13	10	18	14
5/16" - 18NC	15	11	24	17	33	25
5/16" – 24NF	17	13	26	19	37	27
3/8" - 16NC	27	20	42	31	59	44
3/8" – 24NF	31	22	47	35	67	49
7/16" - 14NC	43	32	67	49	95	70
7/16" – 20NF	49	36	75	55	105	78
1/2" – 13NC	66	49	105	76	145	105
1/2" – 20NF	75	55	115	85	165	120
9/16" - 12NC	95	70	150	110	210	155
9/16" – 18NF	105	79	165	120	235	170
5/8" – 11NC	130	97	205	150	285	210
5/8" – 18NF	150	110	230	170	325	240
3/4" – 10NC	235	170	360	265	510	375
3/4" – 16NF	260	190	405	295	570	420
7/8" – 9NC	225	165	585	430	820	605
7/8" – 14NF	250	185	640	475	905	670
1" – 8NC	340	250	875	645	1230	910
1" – 12NF	370	275	955	705	1350	995
1 1/8" – 7NC	480	355	1080	795	1750	1290
1 1/8" – 12NF	540	395	1210	890	1960	1440
1 1/4" – 7NC	680	500	1520	1120	2460	1820
1 1/4" – 12NF	750	555	1680	1240	2730	2010
1 3/8" – 6NC	890	655	1990	1470	3230	2380
1 3/8" – 12NF	1010	745	2270	1670	3680	2710
1 1/2" – 6NC	1180	870	2640	1950	4290	3160
1 1/2" – 12NF	1330	980	2970	2190	4820	3560

METRIC Bolt Size	(5.8) Class 5.8		(8.8) Class 8.8		(10.9) Class 10.9	
mm _x pitch ⁴	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

¹ in-tpi = nominal thread diameter in inches-threads per inch

² N-m = newton-meters

³ lbs-ft= pounds-foot

⁴ mm x pitch = nominal thread diameter in millimeters x thread Pitch

^{*}Torque tolerance +0%, -15% of torquing values. Unless otherwise specified use torque values listed above