

DEFENDER™

Tractor Cab



Owner's Manual

Model:

-Landini 1-25

-Kioti CK20S, CK20S HST

-McCormick X10.25

-Bobcat CT122

Caution:

Before using this product, read this manual and follow all safety instruction



For Compact tractor

- Safety Instructions
- Kit Contents
- Tool Requirement
- Assembly Instructions
- Additional Notes

* DefenderCab™ and accessories are in no way affiliated with Landini, Kioti McCormick or BobCat. Any use of these or there model name(s) is only to identify their Tractors as it pertains to our accessories.

Warning: Failure to heed all safety and operating instructions and / or warnings regarding use of this product can result in serious bodily injury.

SAFETY INSTRUCTIONS

Read entire assembly instructions prior to commencing work.

Install all parts indicated in assembly instructions. Failure to fully assemble product before use could result in personal injury.

Assembly of product requires use of hand and/or power tools. If you are not experienced in using these types of tools, have product dealer do the installation for you.

Some parts contain sharp edges; wear protective gloves if necessary.

Dress for safety. Do not wear loose clothing, neckties or jewelry if using power tools to assemble this product.

Always keep your assembly area clean, uncluttered and well lit.

Keep visitors and children a safe distance away from the assembly area. Visitors should wear the same safety equipment described above.

NEVER OPERATE YOUR TRACTOR WITH THE CAB DOORS OPEN. FAILURE TO PROPERLY LATCH THE DOORS PRIOR TO MOVING THE VEHICLE COULD RESULT IN SERIOUS INJURY.

Additional Safety Note(s):

Some optional installation steps require that some fasteners pertaining to safety devices be temporarily removed. By choosing to perform these steps, you are doing so at your own risk and accept full responsibility should these safety devices fail due to your tampering with them. Please consider the full extent of possible repercussions when choosing to remove any safety device such as nets, safety belts and ROPS.

Cab Enclosure Kit Contents

Your DefenderCab™ Kit should contain the parts listed below. Separate all parts from packing materials. Do not discard packing material until assembly is complete. Item quantities are listed in parenthesis below. Note: Items listed below may or may not be included based on selected options or may be installed on panels before shipping.

Panels, Doors and Brackets

- (1) 29001 Left rear corner panel
- (1) 29002 Back panel
- (1) 29003 Front panel
- (1) 29004 Left side panel
- (1) 29005 Left door
- (1) 29006 Right rear corner panel
- (1) 29007 Right side panel
- (1) 29008 Right door
- (1) 29009 Roof panel
- (1) 29027 Left back cover plate
- (1) 29028 Right back cover plate
- (1) 29039 Left foot spacer
- (1) 29040 Right foot spacer
- (4) 20100 Corner panel hinge plate
- (4) 20101 Door hinge plate and damper bracket
- (4) 20102 Side panel damper bracket

- (2) 20103 Latch bolt bracket
- (1) 20104 Switch box

Hardware

- (1) 29012 Hardware bag*
- (4) 11087 Door strap
- (4) 11088 buckle
- (16ft) 11124 Edge trim 5/8"
- (1) 10093 Left inside latch c/w bolt
- (1) 10045 Right inside latch c/w bolt
- (2) 10048 Push button outside handles
- (4) 10368 Lock pins for door limiters
- (2) 10607 Left lift off hinge
- (2) 10606 Right lift off hinge
- (1) 10106 roll soft gasket
- (1) 29018 Front wiper kit*

*NOTE: Hardware bag contains spare items. Some items may or may not be used in this application.

Tools Required for Assembly

Ensure that you have the following tools available before you begin the assembly of your DefenderCab™ Enclosure Kit. *** **Assembly May require an assistant*****

NOTE: Stainless Steel hardware **WILL** gall (seize) without use of anti-seize compound

- Phillips & Flat screwdrivers
- 1/8" and 5/32 Allen Key (provided)
- Metric/Standard wrench and socket sets
- Electric drill
- 5/16" drill bit3
- Utility knife
- Utility clamps (Suggested)
- Rubber Mallet (Suggested)
- Anti-Seize Compound or Lubricant
- Side cutters

Kit Installation

1. Vehicle Preparation

i) Remove the left and right fastener on each side of the gas tank and the one on the top bracket. These fasteners will be used later to attach the back panel.

***Its Advised to keep all removed fasteners in an empty container and or label them with masking tape**

Fig.1



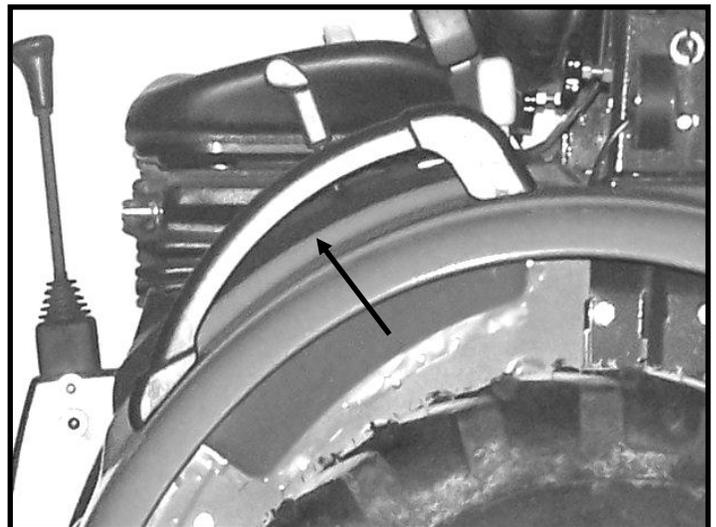
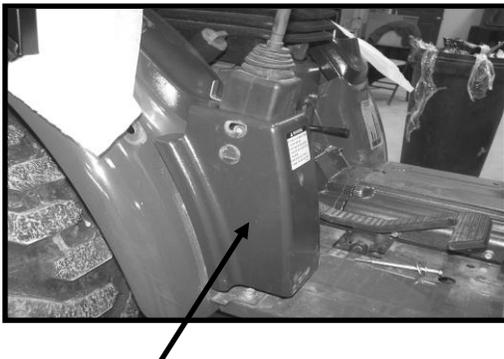
ii) Remove ROPS pins. Lower the ROPS and remove the two Left and right adjustment stoppers. This will allow room to install the back panel. The two adjustment stoppers will be used later to attach the left and right rear corner panels.

Fig.2



iii) Remove the side grab handle .You will also need to remove rubber floor mats. On the left hand side you will need to remove the plastic cover for front loader controls to remove the floor mat.

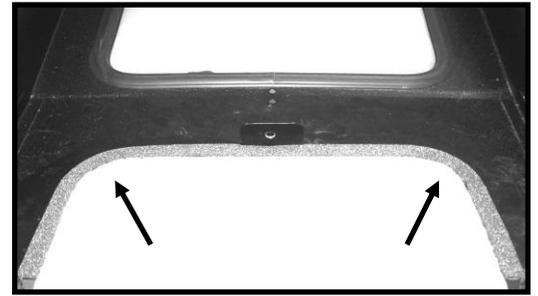
Fig.3



2. Panel Preparation and installation

iv) Stick soft foam to inside edge of back panel as seen in fig.4. This edge will come in contact with the fuel tank outer lip.

Fig.4

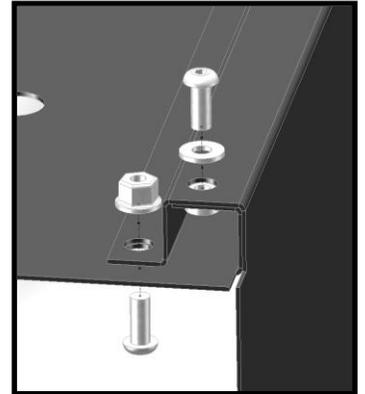


v) Install Left and right male hinges on rear L/R corner panels. Use 8x 5/8", 1/4-20 SS Flat head screw. Do not lose the washer that comes with the hinge. Corner panel hinge plates are used on the back side instead of nuts. Make sure to install plates with the smooth face against the rear panel. This will allow your door to adjust up and down.

Fig.5

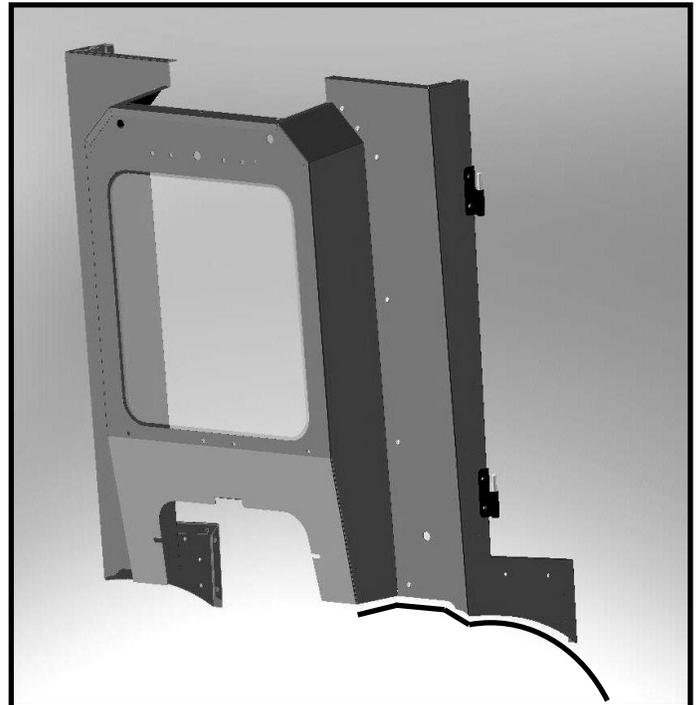


Fig.6



vi) Install Left & Right rear corner panel to the back panel as seen in fig.6 & fig.7. Use fasteners shown in fig.6, 12x 1/2", 1/4-20 SS Button head and serrated flanged nut for fasteners showing on the outside. And 8x 1/2" 1/4-20 SS Button head with 1/4" washer on the inside where insert nuts are located. This assembly method is used throughout the assembly

Fig.7



vii) Install 5/8" Bulb trim as seen in fig.7, There should be around 45" on each side. Leave extras trim dangling until side panels are attached. The extras trim will then be pressed on to the edge of the side panel for a continuous seal. You **don't** need to start the bulb trim on the two back edge of the back panel, there will be cover plate that gets bolted to that face.

viii) With help, gently drop back assembly in place as seen in fig.8. The back panel will sit on the outside lip of the fuel tank fig.9, and fastened with the 2 bolts that were removed on both sides of the fuel tank and the one on the top. The adjustment stoppers for ROPS can also be screwed back in place.

Fig.9



Fig.8



ix) Run 5/8" bulb molding provided along hood profile edge on the front panel fig.10 and along the two foot spacer box fig.11. Drop front panel on tractor fig.12. Attach Foot spacer boxes with 1/2", 1/4-20 SS Button head, and serrated flanged nut fig.13/fig.14. Leave both fasteners for bottom holes on foot spacer empty until side panels are put on. 3/4", 1/4-20 SS Button head are provided for the bottom holes.

Fig.12



Fig.10

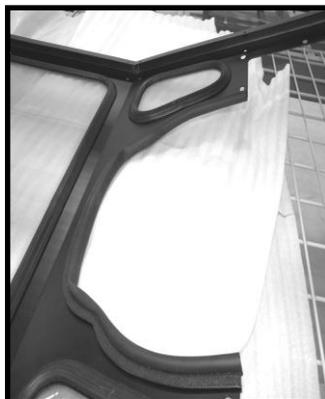


Fig.11



Fig.13

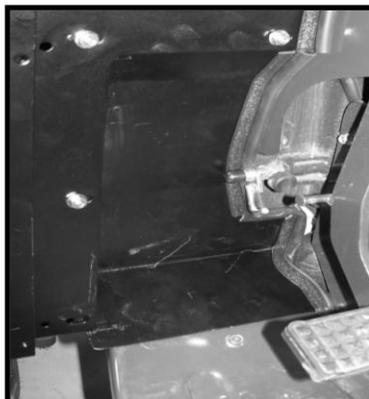


Fig.14



x) Installing the two side panels will take two people and a bit of finesse. The back and front edges of side panels need to be tucked behind the back panel fig.16 *cross section* and then the front panel fig.17 *cross section*. Install all fasteners see fig.6.

Fig.16

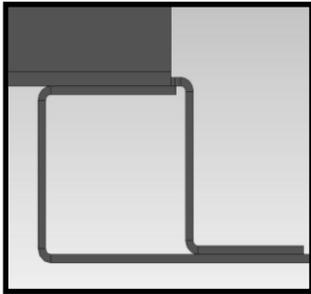
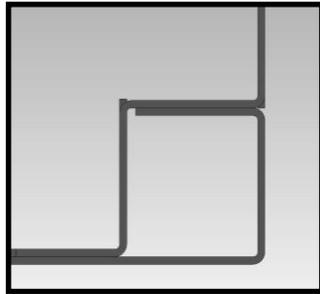
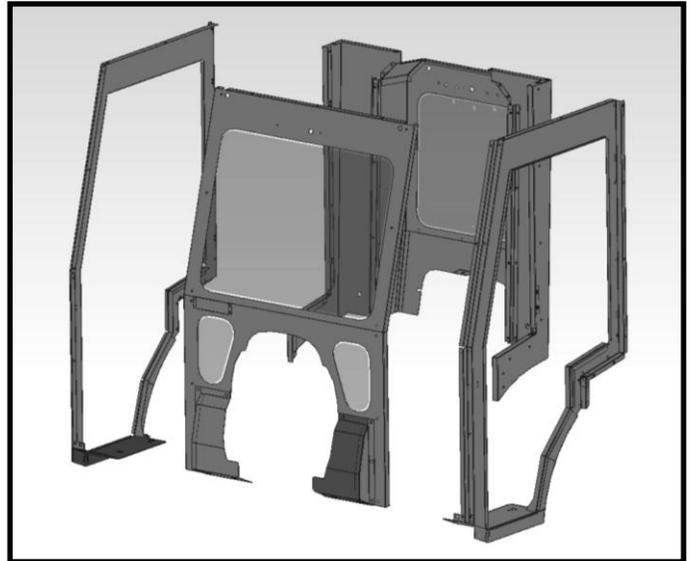


Fig.17



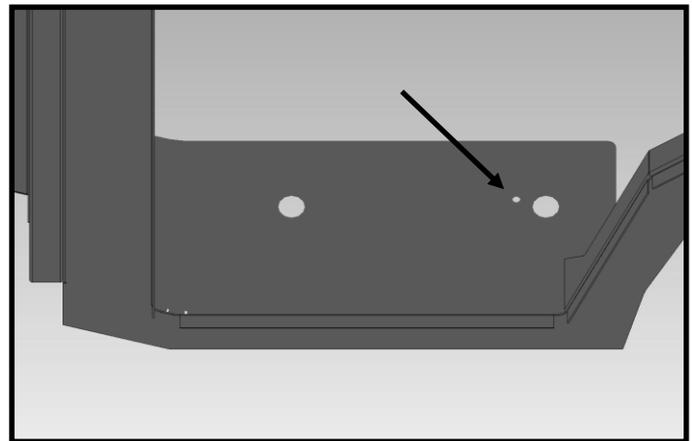
Cross Sections

Fig.15



xi) Make sure side panel is sitting strait with the tractor and lining up with the holes for the rubber mat bottom push pins .Drill 5/16" hole on both sides L/R floorboard of tractor fig.18 and fasten with 3/4", 1/4-20 SS Button head, and serrated flanged nut. Large holes in floor board and foot spacers are for rubber push pins under the rubber floor mat. Rubber mats can now be put back and plastic cover for bucket loader can be bolted on.

Fig.18



xii) Attach latch bolt bracket and latch bolt on both sides, as seen in fig.19 Leave all fasteners loose to adjust for doors. Side panel damper bracket can also be installed on the inside face of side panels fig.20. These are to hold the strap that limits how much the door opens.

Fig.19

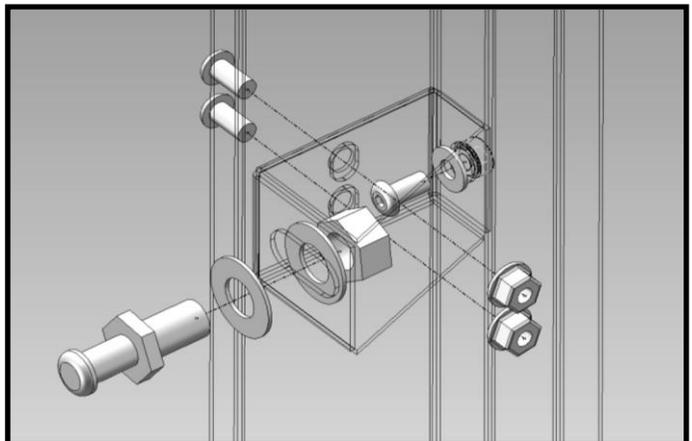
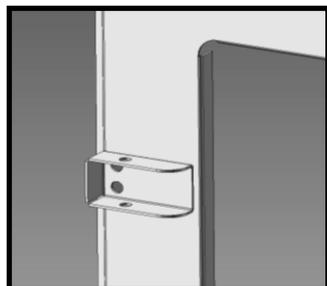


Fig.20



xiii) Door comes with some hardware installed fig 21. Use 2", 1/4-20 bolt, 2 washers and 1/4-20 lock nut on each door damper bracket to hold strap and buckle fig.22. Lock pin are supplied for the side panel damper bracket for quick removal of the doors fig.23.

Fig.22

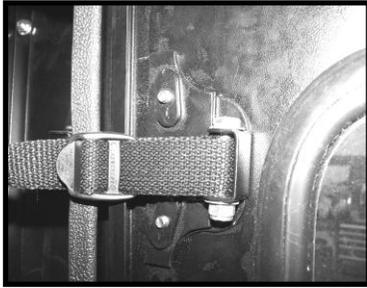


Fig.23

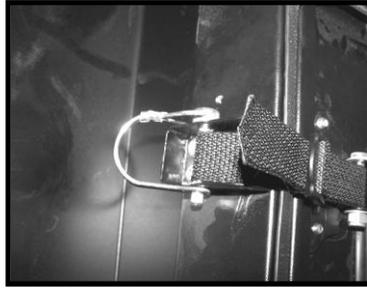
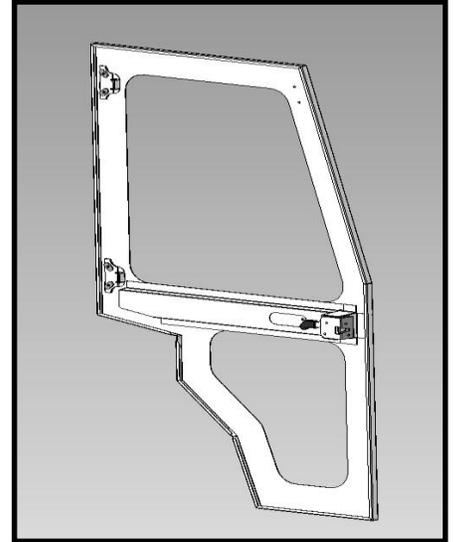
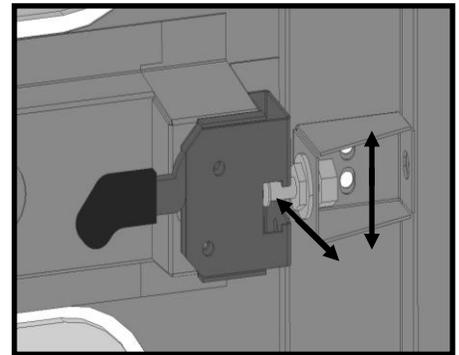


Fig.21



xiii) The doors can now be dropped in place and adjusted .There should be appx. 1/4" gap between door and back. 1/4" spacers can be used to hold the door in position before tightening screws. Back hinge moves up and down and door hinge moves front to back. Latch bolt bracket can be adjusted up or down fig.24 once the door is in position. Latch bolt will need to be adjusted in and out fig.24 so door closes properly with a tight seal. Door might need to be adjusted again to get a proper fit.

Fig.24



xiv) If light option is included in kit, install and ground to light bracket with sheet metal screw. Lights with blue male bullet connector need to be installed so light are on the right side of cab. See light diagram. If console option is included in kit, drop on top of cab before dropping the roof fig.25. Use 1", 1/4-20 SS Button head, rubber washer and serrated flanged nut as seen in fig.26 to attach roof. See Console/heater installation manual.

Fig.25

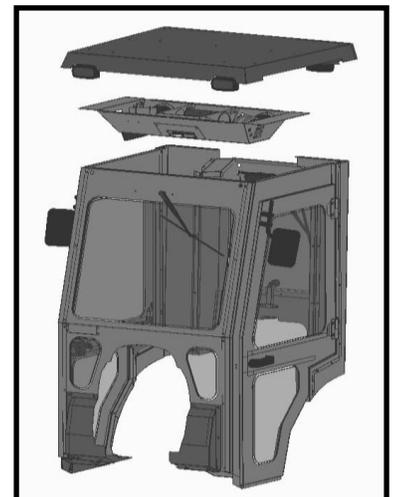
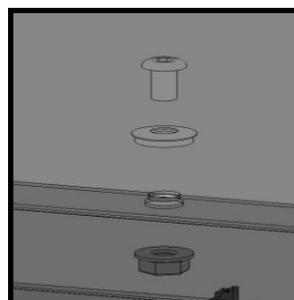


Fig.26



xv) If console is not added, install 3x 1/2", 1/4-20 SS Button head, rubber washer, reg washers and flanged nut in the 3 middle holes of roof.

xvi) Install L/R Back cover plate. Remove lower bolts as seen in fig.27 to bolt cover plates.

xvii) A switch box for lights and wipers is provided if the roof console is not added to options fig.28. Pop out plastic plugs on the right side wall of front panel and hang using 4x 5/8", 10-32 SS Button head screw with lock nuts and washers. Extension harnesses are provided to lengthen connection to switch box. Front light and wiper switches are located closest to operator.

xviii) Install wiper motor as seen in fig.29. Use 10-32 ss button head with lock nut. The plate for pantograph wiper needs to sit behind rubber washer and steel washer that comes with wiper motor. Another 10-32 SS Button head screw will hold the other end of the plate. Never push wiper arm on motor's shaft all the way until it's at the right angle for maximum wipe. Once it pushed all the way in it's extremely hard to take back off

*If opening window option is added. Wiper motor is installed upside down fig.31. Use rubber washers on both sides of glass where 10-32 SS Button head screw is used. Ground motor to roof fastener fig.31. Leave enough wire so window opens freely.

Adjustment to wiper sweep angle and "home" position can be made by removing cover and following the manufacturer's instruction printed on box. Run wiring along top incased in wire loom and hang of roof fasteners with plastic clips.

Note: Motors are normally shipped at maximum sweep angle of 110 deg.

Fig.27

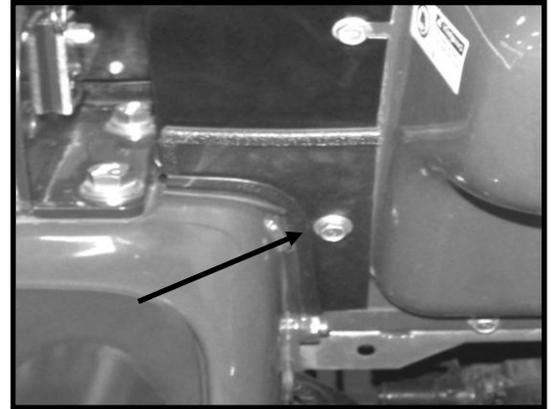


Fig.28

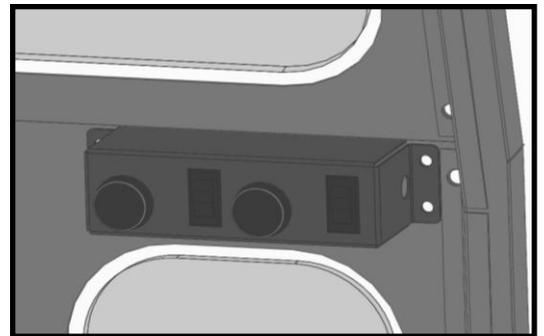


Fig.29

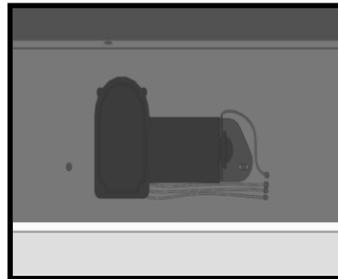


Fig.30



Fig.31



Additional Note(s):

- a) Removal of belts and/or nets is not recommended as this cab enclosure is **not** designed as a roll over protection system. Always wear proper safety gear while riding your Tractor.
- b) To remove doors, simply remove damper bracket pin's and lift doors off
- c) Visit *Defendercab.com* regularly for updates and newly added items to fit your Tractor cab.
- d) Wash enclosure with soapy water as you would any other vehicle.
- e) Hooking up power to ignition is recommended, that way added components won't drain battery when tractor is turned off if accessory is left on. Only Authorised dealers should tamper with tractor's electrical components.

To order replacement parts, contact the Parts Department at:

LB Manufacturing Inc.
 247 Arsenault Road, Dieppe,
 N.B. Canada E1A 7J5
 Ph: (506) 388-9334 Fax (506) 388-3325
 Toll Free: 1-877-380-3335
 www.defendercab.com
parts@defendercab.com

Manual Revision: 1.1

L.B. Manufacturing Inc - Bill of Material

29012-01

Hardware bag

08-Jun-12

For model Landini,McCormic,Kioti,Bobcat.

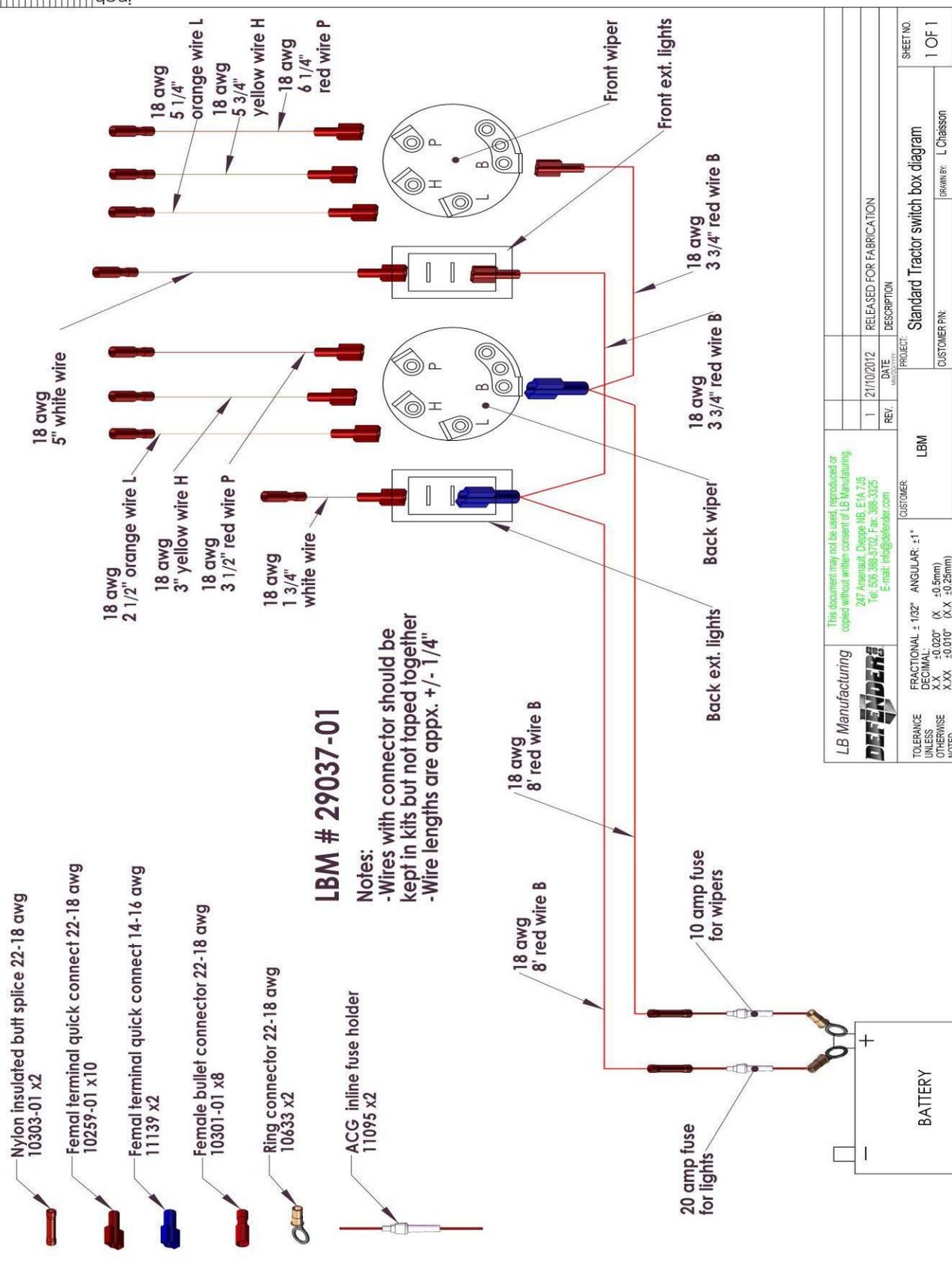
LBM#	Description	Usage Qty	UM
11004	1/4-20unc 1/2" lg button head socket cap SS	100	Ea.
11007	1/4-20 Flanged lock nut	80	ea
11006	Washer .26"ID .55"OD SS	60	ea
11076	1/4-20unc 3/4" lg button head socket cap, SS	12	Ea.
11009	1/4-20 5/8" Self centering flat head	18	ea
11020	Bond seal galvanized washer #14x5/8 small i.d	20	Ea.
11001	1/4-20 U-type nut	4	Ea.
11147	1/4-20 2" long 1 1/8" non treaded	5	Ea.
10022	1/4`-20 Nylon Lock Nut	5	ea
10669	#10-32 Nyloc Nut, Stainless 18-8	5	Ea.
10697	#10-32 x 5/8" Lg. Button hd, allen Screw stainless	5	Ea.
11075	#10 flat washer 18-8	5	Ea.
11014	1/4-20unc 1" lg button head socket cap SS	20	Ea.
11086	1/2" i.d Yellow Zinc Finish thru hardened flat washer	4	Ea.
11156	5/32" short arm hex key	1	Ea.
11157	1/8" short arm hex key	1	Ea.

Date: 29 Sep, 2012

NOT A SCALE

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inch 1 20 10 0

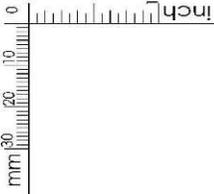


LBM # 29037-01

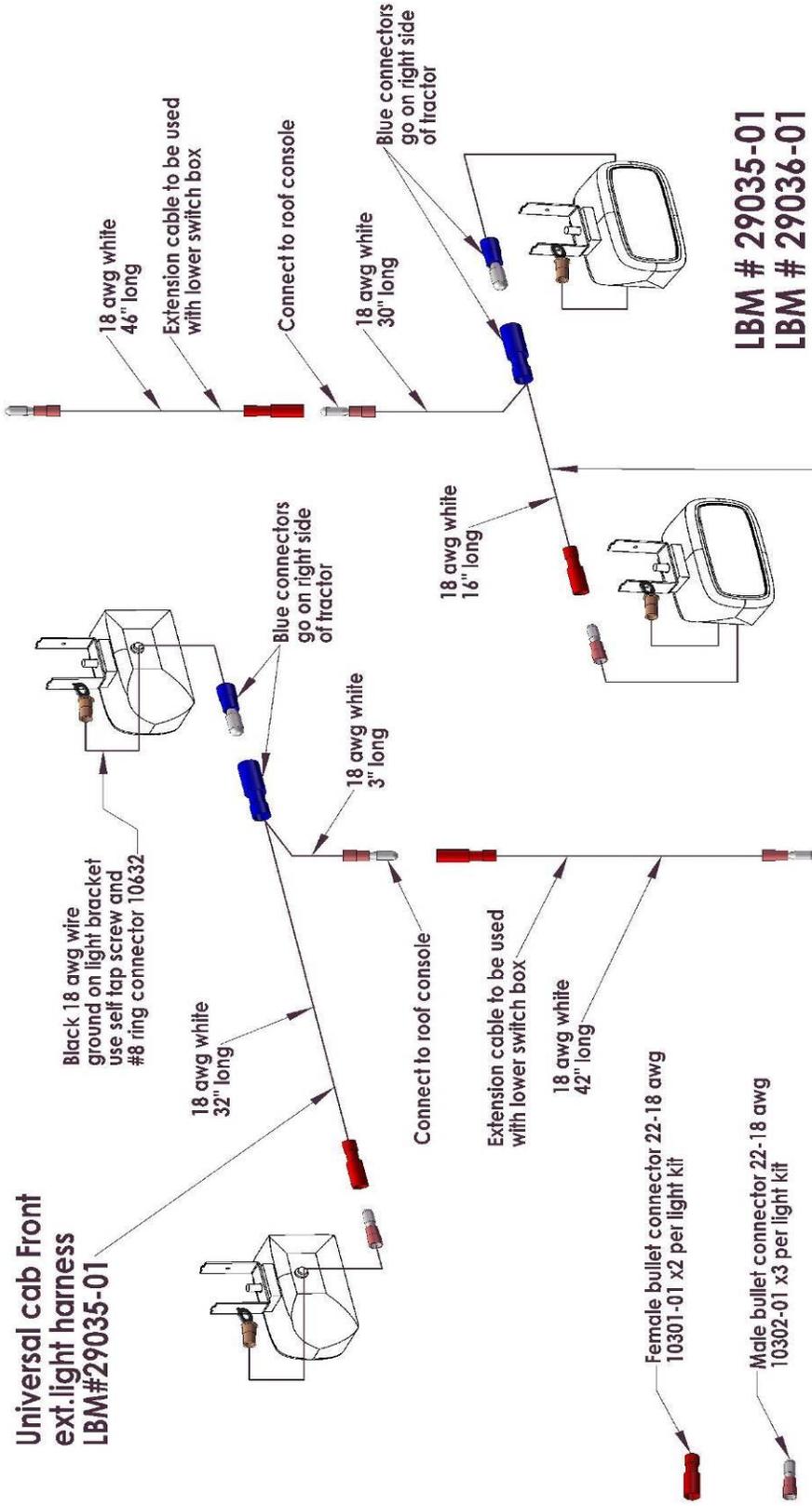
Notes:
 -Wires with connector should be kept in kits but not taped together
 -Wire lengths are appx. +/- 1/4"

This document may not be used, reproduced or copied without written consent of LB Manufacturing 247 Arsenal, Diego, CA 92161 Tel: 609-386-3702 Fax: 386-3825 E-mail: info@lbfab.com		PROJECT: LBM CUSTOMER: Standard Tractor switch box diagram DRAWN BY: L Chaisson CHECKED BY:	
REV.	DATE	DESCRIPTION	SHEET NO.
1	21/10/2012	RELEASED FOR FABRICATION	1 OF 1
CREATED DATE: 23/04/2012 UNITS: INCHES		SCALE: NIS	

NOT A SCALE



**Universal cab Front
ext. light harness
LBM#29035-01**



**Universal cab Back
ext. light harness
LBM#29036-01**

**LBM # 29035-01
LBM # 29036-01**

Notes:

- Wires with connector should be kept in kits but not taped together
- Wire lengths are approx. +/- 1/4"
- Diagram shows harness when roof is on the tractor

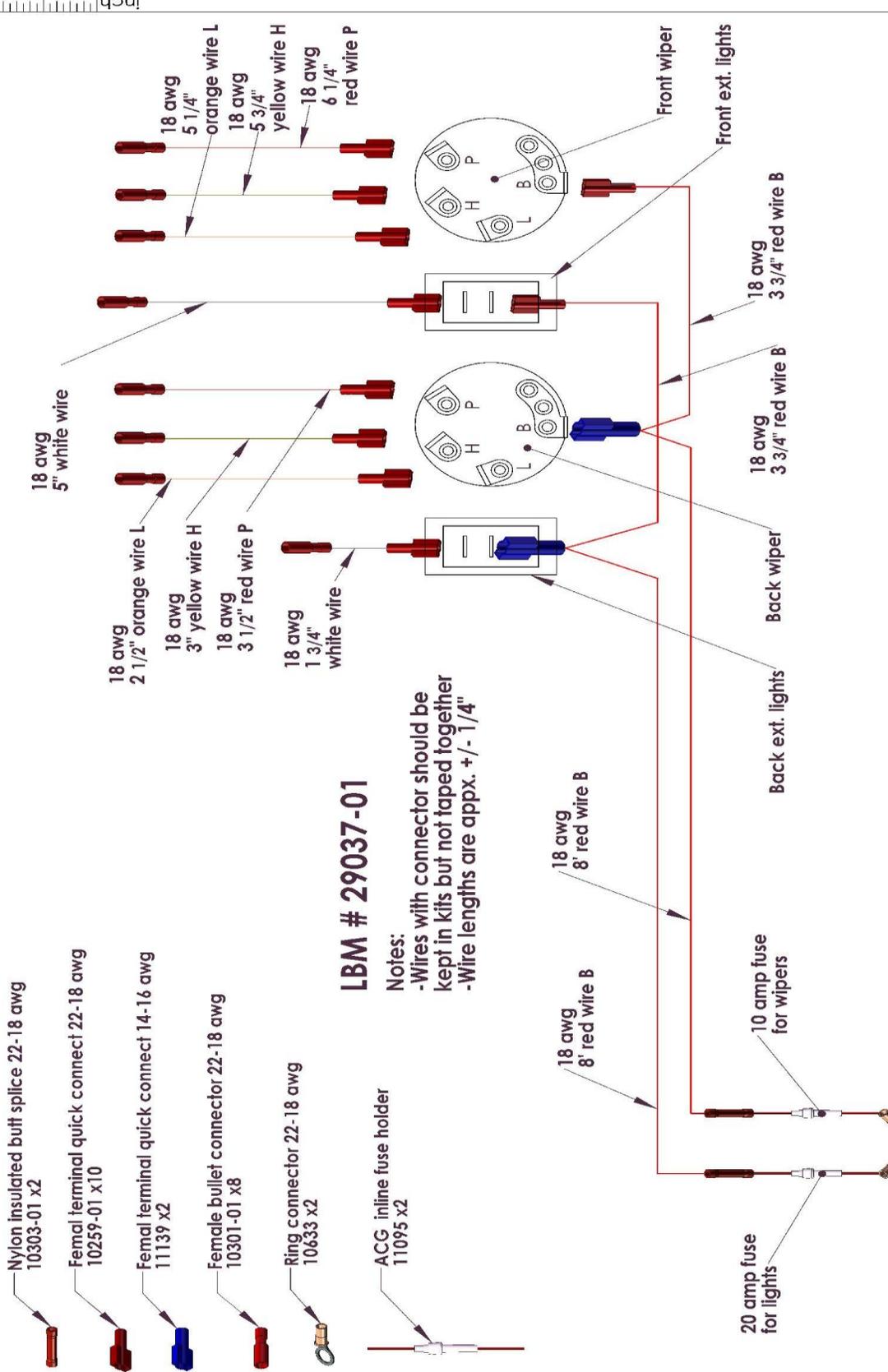
<p>The document may not be used, reproduced or copied without written consent of LB Manufacturing 247 Ascendant Circle NE, E. A. 7.1.5 Tallahassee, FL 32303 Tel: 904.388.5732 Fax: 904.333.3325 E-mail: info@lbdefenders.com</p>		<p>PROJECT: LBM</p>
<p>LB Manufacturing DEFENDERS</p>	<p>CUSTOMER: LBM</p>	<p>RELEASED FOR FABRICATION</p>
<p>TOLEANCE UNLESS OTHERWISE NOTED</p>	<p>FRACTIONAL: 1/32" ANGULAR: ±1° DECIMAL: ±0.020" X.X: ±0.5mm X.XX: ±0.25mm X.XXX: ±0.13mm</p>	<p>DATE: 22/10/2012</p>
<p>UNITS: INCHES</p>	<p>DESCRIPTION: Universal cab ext. light harness</p>	<p>REV: 1</p>
<p>Customer: LBM</p>	<p>Customer P/N: L Chabson</p>	<p>SHEET NO: 1 OF 1</p>
<p>Customer: LBM</p>	<p>Customer P/N: L Chabson</p>	<p>SCALE: NTS</p>
<p>Customer: LBM</p>	<p>Customer P/N: L Chabson</p>	<p>DATE: 23/04/2012</p>
<p>Customer: LBM</p>	<p>Customer P/N: L Chabson</p>	<p>DESCRIPTION: Universal cab ext. light harness</p>
<p>Customer: LBM</p>	<p>Customer P/N: L Chabson</p>	<p>SCALE: NTS</p>

- Female bullet connector 22-18 awg 10301-01 x2 per light kit
- Male bullet connector 22-18 awg 10302-01 x3 per light kit
- Ring connector 22-18 awg #8 10632 x2 per light kit
- Male bullet connector 16-14 awg 10604-01 x1 per light kit
- Female bullet connector 16-14 awg 10605-01 x1 per light kit

NOT A SCALE

mm 30 20 10 0

inch



LBM # 29037-01

Notes:
 -Wires with connector should be kept in kits but not taped together
 -Wire lengths are appx. +/- 1/4"

- Nylon insulated butt splice 22-18 awg 10303-01 x2
- Femal terminal quick connect 22-18 awg 10259-01 x10
- Femal terminal quick connect 14-16 awg 11139 x2
- Female bullet connector 22-18 awg 10301-01 x8
- Ring connector 22-18 awg 10633 x2
- ACG inline fuse holder 11095 x2

<p>This document may not be used, reproduced or copied without written consent of LB Manufacturing. 247 Arsenal, Dierpe NB, E 1A 7J5 Tel: 506-388-5702, Fax: 388-3325 E-mail: info@defenders.com</p>		<p>PROJECT: Standard Tractor switch box diagram</p>
<p>LB Manufacturing DEFENDERS</p>	<p>CUSTOMER: LBM</p>	<p>SHEET NO. 1 OF 1</p>
<p>TOLEANCE UNLESS OTHERWISE NOTED</p> <p>FRACTIONAL ± 1/32" ANGULAR: ±1° DECIMAL: X.X ±0.020" (X ±0.5mm) X.XX ±0.010" (X.X ±0.25mm) X.XXX ±0.005" (X.XX ±0.13 mm)</p>	<p>DATE: 21/10/2012</p> <p>RELEASED FOR FABRICATION</p>	<p>DRWING BY: L Chabsson</p>
<p>UNITS: INCHES</p>	<p>CREATED DATE: 23/04/2012</p>	<p>CHECKED BY:</p> <p>SCALE: NTS</p>

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