

## CAB INSTALLATION INSTRUCTIONS

KUBOTA BX 1850/2350/2660 HARD SIDED CAB ENCLOSURE (p/n 1KBX50AS) SOFT SIDED CAB ENCLOSURE (p/n 1KBX50SS)

> The contents of this envelope are the property of the owner. Be sure to leave with the owner when installation is complete.

APPROXIMATE INSTALLATION TIME: 2 to 3 HOURS



NOTE: soft sided cab shown with the following accessories: Standard (included with cab): front windshield wiper. Optional (purchased separately): work lights, strobe light, 20,000 B.T.U. heater, and/or a glass rear panel assembly.

(revised: 10/29/2014) p/n: IM-1KBX50

# **URTIS** DESIGN CONCEPT

Curtis cabs feature an assembly of parts designed for your vehicle which require adjustment and alignment of components to accommodate vehicle variations and provide proper weather protection. For accurate installation, proper operation, and years of satisfaction, please read and understand the installation instructions.

From all of us at Curtis, we thank you for choosing our product.

### ADDED NOTICE

Curtis Cabs, blades and general accessories add additional weight to the base vehicle. All Curtis accessory weights are listed in product brochures. Deduct the accessory's total weight from the vehicle's rated capacity and never exceed the vehicle's rated capacity including driver and passenger.

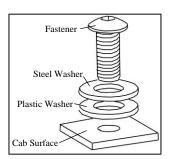
WARNING Exposure to Carbon Monoxide can Cause illness, serious injury or death. Never

operate vehicle if suspicious of Carbon Monoxide. Inspect exhaust system for leaks monthly. Leaks can result from loose connections, corrosion, cracks or other damage to the exhaust manifold. If leaks are found, repair or replace exhaust system. Do not use vehicle until repair or replacement is complete.



# CAB INSTALLATION BEFORE YOU START HELPFUL REMINDERS:

- A. Refer to parts diagram toward the back of this manual to help identify parts during the assembly process.
- B. To assist with the cab installation, leave all bolts loose for later adjustment unless otherwise specified.
- C. Read and understand all instructions before beginning.
- D. Plastic washers have been supplied to provide a weather seal under the heads of all exterior bolts. The plastic washer should be installed under each bolt head directly against the outside cab surface. Care should be taken not to over tighten the fasteners and damage the plastic washer. Also use steel washers as required. See diagram.
- E. Apply a clear silicone sealant to seal any minor gaps that may occur due to vehicle variations.
- F. Use caution to avoid damaging the factory installed threaded inserts. Begin the bolt engagement by hand to avoid or correct potential cross threading.



#### **TOOLS REQUIRED:**

Set of standard and metric sockets Set of standard and metric open end wrenches One 3/8" Drive Ratchet One 3/16" Allen Wrench (preferably "T" handle type) One Phillips Head Screwdriver Scissors Drill and a Phillips Head driving bit

#### VEHICLE PREP.

If the vehicle is equipped with a front-mount snow blower, you must have a remote chute control to operate the chute. You can purchase one of the following two options through your local Kubota dealer:

Electric Chute Rotator Kit (p/n GB2514B-1) Hydraulic Chute Rotator Kit (p/n BX2754)

If the vehicle is equipped with a front loader attachment, remove it at this time. Refer to manufacturer's instruction manual if necessary. Re-install it once the cab installation is complete.

#### 1. SMV SIGN

**1.1** Temporarily remove the SMV (slow moving vehicle sign) from the vehicle by lifting it straight up out of its wedged position. See fig. 1.1.

#### 2. FLASHER LIGHTS

**2.1** Temporarily remove the flasher lights from each side of the vehicle. Remove the large hex nut and disconnect the wires at the bullet connectors. See figures 2.1 and 2.1.1. Pull the loomed wire all the way out of the fender hole and bracket hole. Set the lights aside.

#### 3. AIR INTAKE COVER

**3.1** Temporarily remove the air intake cover by removing the hand knob and pulling the cover towards the rear of the vehicle to free it up. See fig. 3.1.



Fig. 3.1 (view from rear of left side)

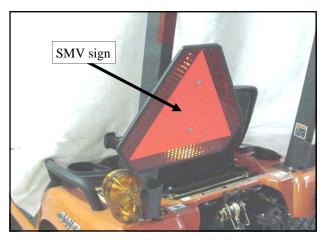


Fig. 1.1 (view from rear of left side)



Fig. 2.1 (view from rear of left side)



Fig. 2.1.1 (view from rear of left side)

#### 4. AIR INTAKE PLASTIC SHIELDS

NOTE: to maintain air flow to the radiator and take it from outside the cab, the two plastic shields must be removed and the vinyl cover installed. During warmer operating conditions, the vinyl cover may be removed for more air intake.

**4.1** Remove and discard the two plastic shields shown in fig. 4.1. Remove a total of three (3) bolts and discard the hardware. Fig. 4.1.1 shows the left half removed.

#### 5. BLACK VINYL AIR INTAKE COVER

- **5.1** While the air intake cover is still off, install the supplied self-adhesive velcro to the perimeter of the outside face in order to attach the black vinyl cover provided. Note: adhesive-backed velcro should be applied to a clean, dry surface at room temperature.
- **5.2** Attach the black vinyl cover to the newly installed self-adhesive velcro on the air intake cover oriented so that there is overhang on three sides (the left, the right, and the bottom). Fig. 5.2 shows one of the lower corners. NOTE: the black vinyl cover has additional strips of velcro sewn on for use with either model 1850, 2350 or 2660.
- **5.3** Per fig. 5.3, fully re-install the air intake cover in place using the original hand knob to secure it.

**NOTE:** The vinyl air intake cover is designed to keep the radiator from drawing warm air out of the cab in the winter. It is recommended that the intake cover be <u>removed on hot summer days</u>.

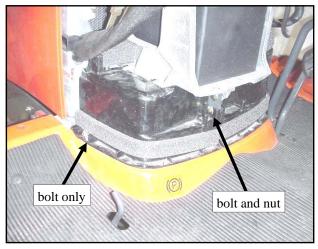


Fig. 4.1 (view from rear of left side)



Fig. 4.1.1 (view from rear of left side)



Fig. 5.3 (view from rear of left side)

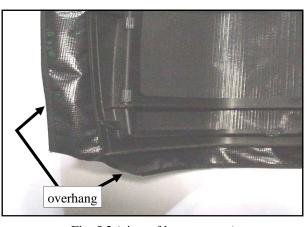


Fig. 5.2 (view of lower corner)

#### 6. FRONT LOADER ARM

- **6.1** Per fig. 6.1, remove the three rubber/plastic items shown (i.e.: hand knob, rubber boot, and large main cover). The hand knob is a light press fit on the shaft. Twist and pull to remove it. The large main cover is bolted on. Remove and save the one bolt shown in fig— ure 6.1.1 Save these three items for re-installation later.
- **6.2** Per fig. 6.2, remove and save the top bolt and nut as shown.
- **6.3** Per fig. 6.3, remove and save the lower hex nut as shown.
- **6.4** Discard the original equipment front loader arm (straight shaft) and install the supplied arm which has a bend in it. Re-install all the associated hardware and rubber/plastic pieces that were temporarily removed. Tighten all bolts. See figure 6.1.



Fig. 6.1 (remove and save these 3 items)



Fig. 6.1.1 (view from front of right side)



Fig. 6.3 (close up view)

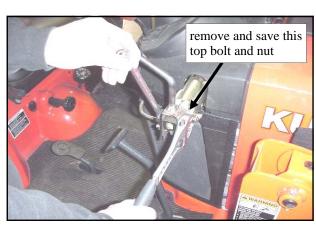


Fig. 6.2 (view from front of right side)

#### 7. FRAME FRONT ASSEMBLY

- **7.1** Per fig. 7.1, remove (or puncture) the sticker that hides an unused bolt hole and remove and discard the carriage bolt and locknut. Repeat for opposite side.
- **7.2** Per fig. 7.2, line up and use the two appropriate bolt holes. Note on orientation: the outer bracket portion is to be below the floorboard level as shown in fig. 7.2. For models 2350 and 2660, use the two front (outboard) holes. For model 1850, use the two rear (inboard) holes.
- **7.3** Use the following hardware per side: two 5/16-18 x 1" long hex head bolts, two steel washers, and two locknuts. Locknuts and washers to be underneath the vehicle floorboard. The head of the bolt to be up top. No washers under these bolt heads. Leave bolts loose.

#### 8. R.O.P.S. MOUNT (lower)

**8.1** Per fig. 8.1, install the mount oriented as shown with the bent stiffening gusset up top. Use the following hardware per side: two 3/8-16 x 1" long hex head bolts, four steel washers, and two locknuts. Locknuts to be on the outside. Leave bolts loose.

#### 9. R.O.P.S. MOUNT 2 (upper)

9.1 Attach as shown with the long slotted tab facing the rear of the vehicle per fig. 9.1 and the 2-hole tab tilting inward and upward per fig. 9.1.1. Install the upper R.O.P.S. mount 2 to the cab side frame using the following hardware per side: two 5/16-18 x 3/4" long hex head bolts and two steel washers into factory installed threaded inserts in the side frame tubing. Leave bolts loose. Reminder: use caution to avoid damaging the internal threads on the factory installed threaded inserts.



Fig. 9.1.1 (inside view of left side frame from front)

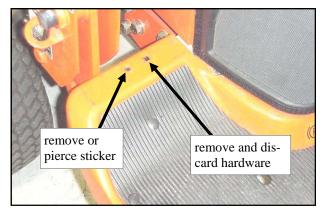


Fig. 7.1 (view from rear of left side)

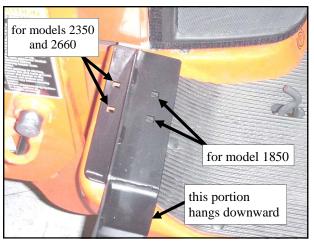


Fig. 7.2 (view from front of left side)



Fig. 8.1 (view from rear of left side)

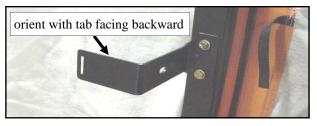


Fig. 9.1 (inside view of left side frame)

#### 10. SIDE FRAME

- **10.1** Remove doors from side frames by opening and lifting up off of pin hinges.
- **10.2** Install the supplied 1/2" wide weatherseal (ref.: 31" long) to the top of each side frame as shown by the white line in fig. 10.2. Install along the top outer surface to dodge the factory installed threaded inserts. Continue the weatherseal over the front tabs as shown. NOTE: always apply self-adhesive backed material to a clean, dry surface at room temperature.
- 10.3 Install the side frame assembly on to the vehicle by tipping the top back area so it hooks around the inside of the R.O.P.S. tubing, then place the lower front on top of the floorboard of the vehicle. Lastly, push the lower rear section in place.
- **10.4** Install hardware for each side as follows: use two 5/16-18 x 3/4" long hex head bolts and two steel washers underneath the lower front area as shown in fig. 10.4. Leave all bolts loose.
- **10.5** Per fig. 10.5, use the mating half of the upper R.O.P.S. mounting bracket and secure with one 5/16-18 x 3/4" long hex head bolt, two steel washers, and one locknut. Locknuts to be towards the inside of the cab. Repeat for opposite side. Leave all bolts loose.
- **10.6** Per fig. 10.6, push the side frame in towards the lower mounting bracket and secure with the following hardware per side: two 5/16-18 x 3/4" long hex head bolts and two steel washers into factory installed threaded inserts in the side frame tubing. Leave all bolts loose.

#### 11. WINDSHIELD SUPPORT

11.1 Per fig. 11.1, install the windshield support oriented to match the angle between the upper mounting tabs on the side frames. Use the following hardware per side: two 5/16-18 x 3/4" long button head bolts, four steel washers, two plastic washers, and two locknuts. Locknuts to be on the inside of the cab. With assistance, squeeze the two side frame towards each other and tighten these four bolts to eliminate gaps.

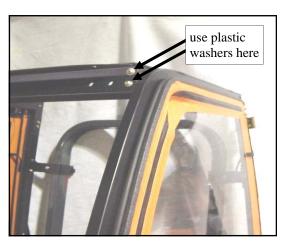


Fig. 11.1 (view from front of left side)



Fig. 10.2 (view from top of left side frame)

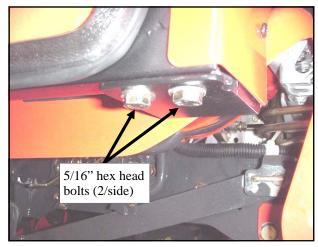


Fig. 10.4 (view from front of right side) (under vehicle)

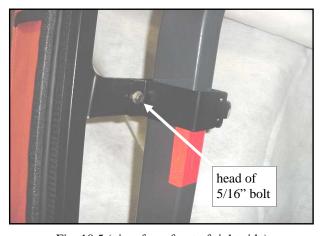


Fig. 10.5 (view from front of right side)

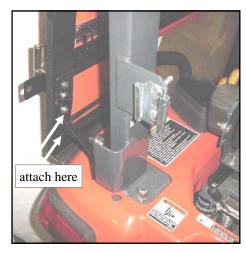


Fig. 10.6 (view from rear of right side)

#### 12. UPPER REAR PANEL (hard side cab only)

**12.1** Orient the upper rear panel assembly so the hinges are up top as shown in fig. 12.1. Install the upper rear panel assembly so that the top surface of the tubular frame is flush with the top surface of the side frame tubing. Use the following hardware at the top and bottom of each side: one 5/16-18 x 3/4" long hex head bolt and one steel washer into factory installed threaded inserts in the side frame tubing. See fig. 12.1. Important: make sure the top is flush, parallel, and pushed forward then tighten both bolts.

Note: the roof will be sealing against the weather seal provided on top of the upper rear tube and the top of the side frames.



Note: before installing Lower Rear Panel, make sure lock nuts on the lower 3/8-16 x 1" bolts of the ROPS Mount (lower) are loose and only started a couple turns. See fig. 8.1 on page 6.

- 13.1 Install the lower rear panel so that the 3/8-16 bolts slide into the open-ended slot on the welded mounting tab, sandwiched between the steel washer and ROPS Mount (lower). See figure 13.1. Push the panel forward as far as it will go and tighten both lower and upper 3/8-16 bolts. See fig. 13.1.1.
- 13.2 Align top flange of panel with lower tube of Upper Rear Panel and secure with five (5) self-drilling/self-tapping screws up through the bottom of the lower tube. Begin with the center hole, then the outermost holes and finally the other two holes. Be sure to keep the top flange of the lower panel offset evenly with the lower tube of the upper panel. Use a Phillips head bit in a drill. See fig. 13.2. Caution: do not over-torque. Over-tightening can strip out the thin walled tubing.



Fig. 13.2 (view from rear of right side)

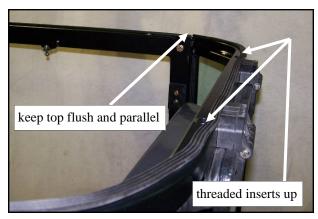


Fig. 12.1 (view from rear of left side)



Fig. 13.1 (view from rear of left side)

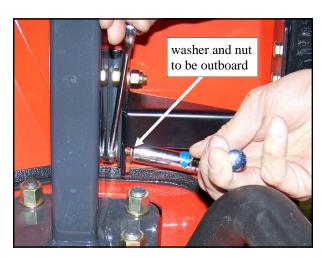


Fig. 13.1.1 (view from front of left side)

#### 14. UPPER REAR TUBE (soft side cab only)

- **14.1** Install the upper rear tube so that the top surface is flush and the welded tab overhang is facing down. Use the following hardware per side: one 5/16-18 x 3/4" long hex head bolt and one steel washer into factory installed threaded inserts in the side frame tubing. See fig. 14.1. Important: make sure the top is flush, parallel, and pushed forward then tighten both bolts. Note: the roof will be sealing against the weatherseal provided on top of the upper rear tube and the top of the side frames.
- **14.2** Install velcro to the back surface of the upper rear tube. Reminder: self-adhesive velcro should be applied to a clean, dry surface at room temperature.

#### 15. LOWER REAR TUBE (soft side cab only)

15.1 Install the lower rear tube so that the welded tab overhang is facing upward. Use the following hardware per side: one 5/16-18 x 3/4" long hex head bolt and one steel washer into factory installed threaded inserts in the side frame tubing. See fig. 15.1. Push the lower rear tube forward as far as it will go and tighten both bolts.

#### 16. FRONT FILLERS

- **16.1** Tighten a total of eight (8) bolts at this time. Tighten two per side between vehicle and frame front as shown in figure 16.1. Tighten two per side between the frame front assembly and sideframe as shown in figure 16.1.1.
- **16.2** Per fig. 16.2, install the left and right front fillers so that the lower front section is between the bolt heads and the frame front. Secure with six (6) self-drilling/self-tapping screws. Use a Phillips head bit in a drill. Install the three outer vertical screws first, then the three lower

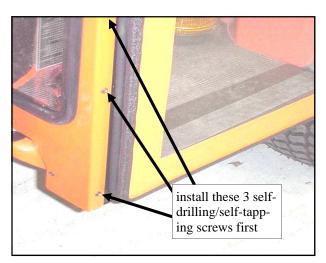


Fig. 16.2 (view from front of left side)

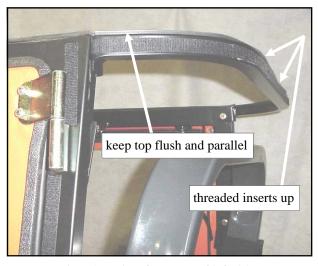


Fig. 14.1 (view from rear of left side)

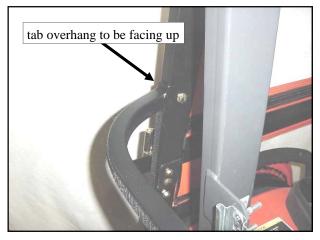


Fig. 15.1 (view from rear of right side)

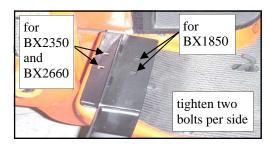


Fig. 16.1 (view from front of left side)

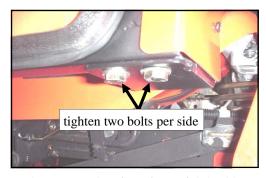


Fig. 16.1.1 (view from front of right side) (under vehicle)

#### 17. WINDSHIELD

- **17.1** Have the following items ready to use: two plastic spacer blocks, four flat head screws (1 3/4" long), four flat steel washers, and four 5/16-18 locknuts. Place the windshield on the vehicle by resting it on the hood of the vehicle. See fig. 17.1.
- 17.2 Attach the upper hinges using the following: two 3/4" thick plastic spacers blocks, four 5/16-18 x 1 3/4" long flat head bolts, four steel washers, and four locknuts. See fig. 17.2. Locknuts and washers to be on the inside of the cab. Do not tighten bolts.
- **17.3** Center the windshield evenly between the side frames and engage the two interior windshield release latches.
- **17.4** Tighten the four upper hinge bolts (flat head bolts). CAUTION: HINGES ARE PLASTIC COMPONENTS. DO NOT OVERTIGHTEN. TORQUE TO 7 FT.-LBS. MAXIMUM.
- 17.5 Open the windshield slightly, remove shims and attach the 18" long gas shocks to the ball studs as follows: the large canister end attaches to the windshield and the narrow rod end attaches to the side frame. NOTE: do not adjust windshield with gas shocks attached.
- **17.6** Per fig. 17.6, if there is a gap, simply flex the upper inner corner of the front filler forward a little at a time until satisfied.

#### 18. ROOF

- **18.1** Install the plastic roof so the tallest portion is towards the rear of the vehicle. Use an Allen wrench or a Phillips head screwdriver to help line up holes if necessary. Use caution to avoid damaging the internal threads on the factory installed threaded inserts. Use the following hardware in the two rear roof holes to attach the roof to the upper rear tube: two 5/16-18 x 1" long button head bolts, two steel washers, and two plastic washers into factory installed threaded inserts.
- **18.2** Fasten the sides of the roof using the following hardware: four  $5/16-18 \times 1$ " long button head bolts, four steel washers, and four plastic washers into factory installed threaded inserts.
- **18.3** The front three roof holes use the following hardware: three 5/16-18 x 1" long button head bolts, six steel washers, three plastic washers, and three locknuts. Locknuts and steel washers to be underneath the lip. If installing optional work lights, use the outer two bolts to mount the work light brackets on top of the roof surface.

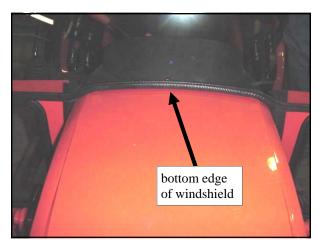


Fig. 17.1 (view from front center of vehicle)

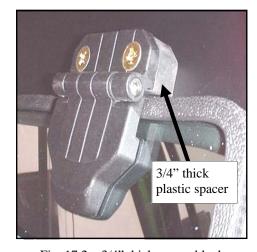


Fig. 17.2 3/4" thick spacer block



Fig. 17.6 (view from front of right side)

#### 19. TIGHTEN ALL BOLTS

**19.1** Tighten all remaining bolts. Reminder: tighten the four bolts underneath the floorboard at the front lower section of the side frame assembly. See fig. 10.4 on p.7.

#### 20. FLASHER LIGHTS

**20.1** Re-install both flasher lights removed in step 2.1. Use the newly supplied mounting bracket that is sandwiched under the pin hinge as shown in fig. 20.1. If installing on hard side cab, feed the loomed wires through the holes in the lower rear panel. See fig. 20.2. Then feed the loomed wires down through the fender hole and re-connect the wires.

#### 21. SMV SIGN

**21.1** Re-install the SMV sign (slow moving vehicle) if desired. Insert into the original receiving bracket and wedge it in with medium firm effort.

#### 22. UPPER REAR CURTAIN (soft side cab only)

- **22.1** Orient the curtain so that the relief slots for the upper door pin hinges are up top. With assistance, dry fit the upper rear curtain to determine where to apply velcro. Install the supplied self-adhesive hook velcro to the outside surface of the rear vertical side frame tube where deemed appropriate. Install velcro to the back surface of the lower rear tube. Reminder: self-adhesive velcro should be applied to a clean, dry surface at room temperature.
- **22.2** Attach the upper rear curtain to the newly install hook velcro. See fig. 22.2.

#### 23. LOWER REAR CURTAIN (soft side cab only)

- 23.1 Orient the curtain so the solid orange section forms a 90 degree angle under the lower rear tube. See figures 22.2 and 23.1. With assistance, dry fit the lower rear curtain to determine where to apply hook velcro. Install the supplied self-adhesive hook velcro to the rear surface of the vertical side frame tube, the bottom surface of the lower rear tube, as well as along the molded plastic fender on the vehicle where deemed appropriate.
- **23.2** Attach the lower rear curtain to the newly installed hook velcro.

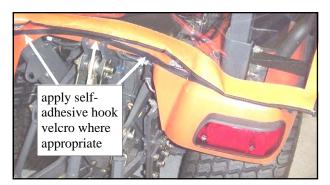


Fig. 23.1 (view from rear of right side)



Fig. 20.1 (view from rear of left side)



Fig. 20.2 (view from rear of left side)

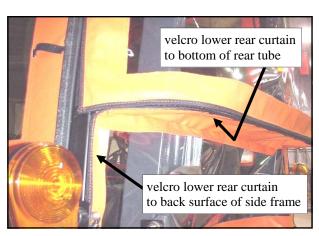


Fig. 22.2 (view from rear of left side)

#### 24. FUEL CAP ASSEMBLY

**24.1** Install the fuel cap assembly over the fuel cap by inserting the fixed tabs first, then snapping in the flexible tab last. Adjustment is available if necessary. Loosen the #10-32 bolt and locknut to adjust the spring tab. Re-tighten the hardware and re-install the fuel cap assembly on the vehicle. See fig. 24.1.

#### 25. WINDSHIELD WIPER

**25.1** Install the front windshield wiper (110 degree sweep) per the instructions in the wiper kit. The 110 degree front windshield wiper is included with the cab. An optional 85 degree wiper for the rear window is available as an optional accessory from Curtis.

#### 26. FINISHING TOUCHES

- **26.1** Apply grease to the pin hinges if desired. With assistance, re-install the doors onto the pin hinges. Work the doors back and forth until the hinges are completely seated. Note: the hinges, inside latch, and striker bolt can also be adjusted for proper engagement.
- **26.2** For hard sided doors only, install the gas shock (13 1/4" long) to the frame and door with the small piston end towards the door. Press the button on the compression fastener to lock the gas shock to the ball stud.
- **26.3** For soft sided doors only, install the vinyl coated cable door stop to the welded tabs on the door and side frame. See figure 26.3. Use the following hardware: four 5/16-18 x 3/4" long hex head bolts, eight steel washers, and four locknuts. Do not tighten down firmly. Allow for free pivoting.
- **26.4** Install the supplied 5/16" nut covers (qty.: 10) on the interior hex head nuts as follows: two on the R.O.P.S. mount 2 brackets (see fig. 26.4) and eight on the inside of the windshield support (see fig. 26.4.1).
- **26.5** Peel protective film from front filler windows.
- **26.6** Note: extra hardware has been provided in case they get lost. Discard extras such as washers, etc.
- **26.7** Re-attach the front loader if it was removed from the vehicle.

#### 27. CARE AND MAINTENANCE

- **27.1** Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- **27.2** Wash the painted surfaces of the unit with commercial automotive cleaning products.
- **27.3** Clean windows with glass cleaner.
- **27.4** Vinyl components should be washed with a mild solution of warm soapy water.
- 27.5 Clear vinyl can be easily scratched. Be careful cleaning frost or snow from windows. Do not roll curtains in cold weather. The windows become stiff and may crack. Keep windows clean.



Fig. 24.1 (view from front of right side)



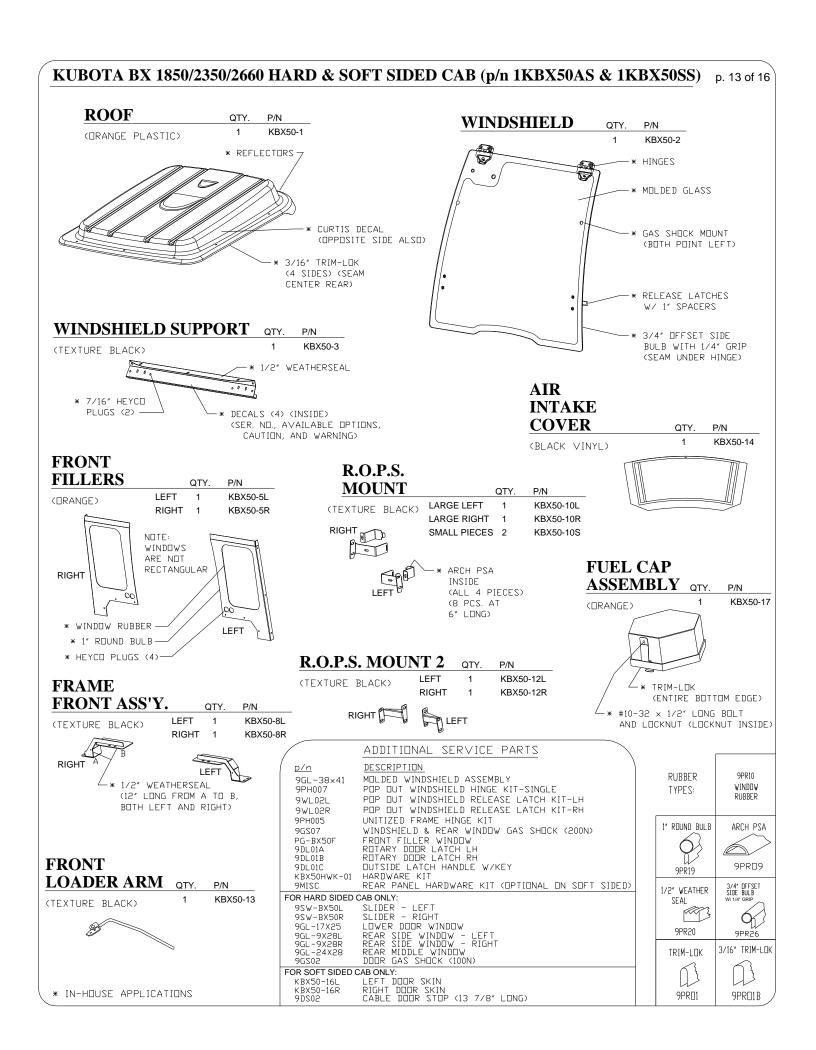
Fig. 26.3 Soft Side door stop

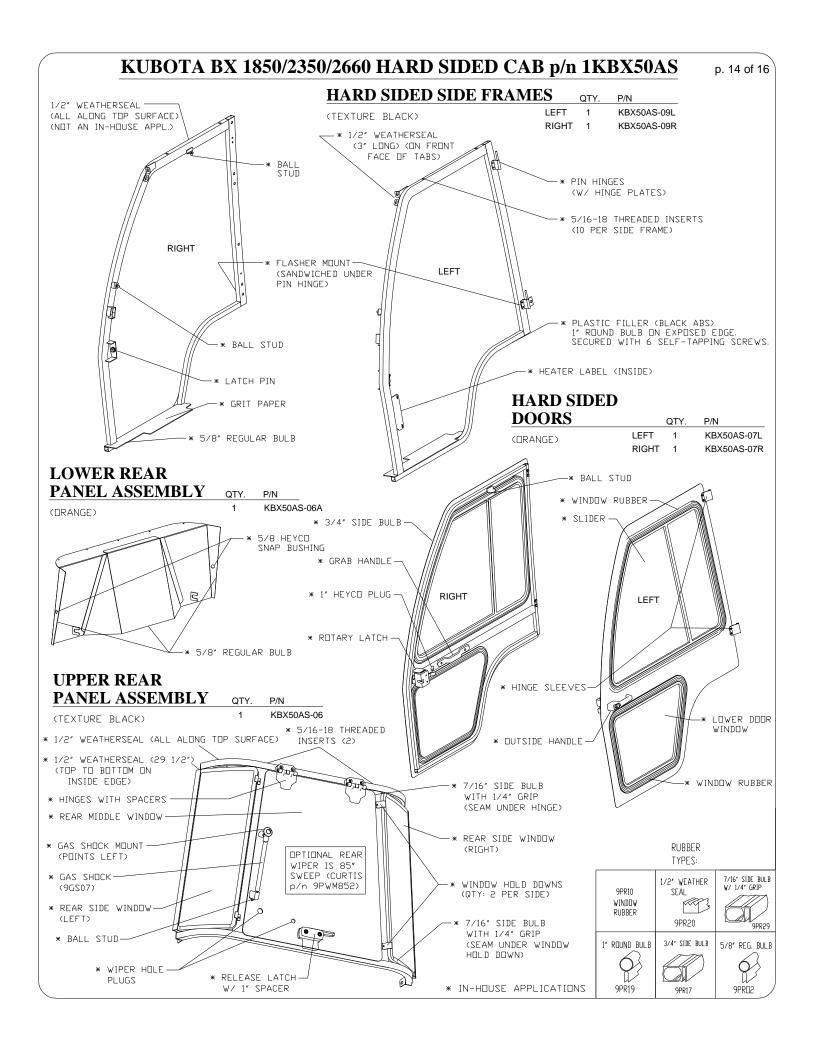


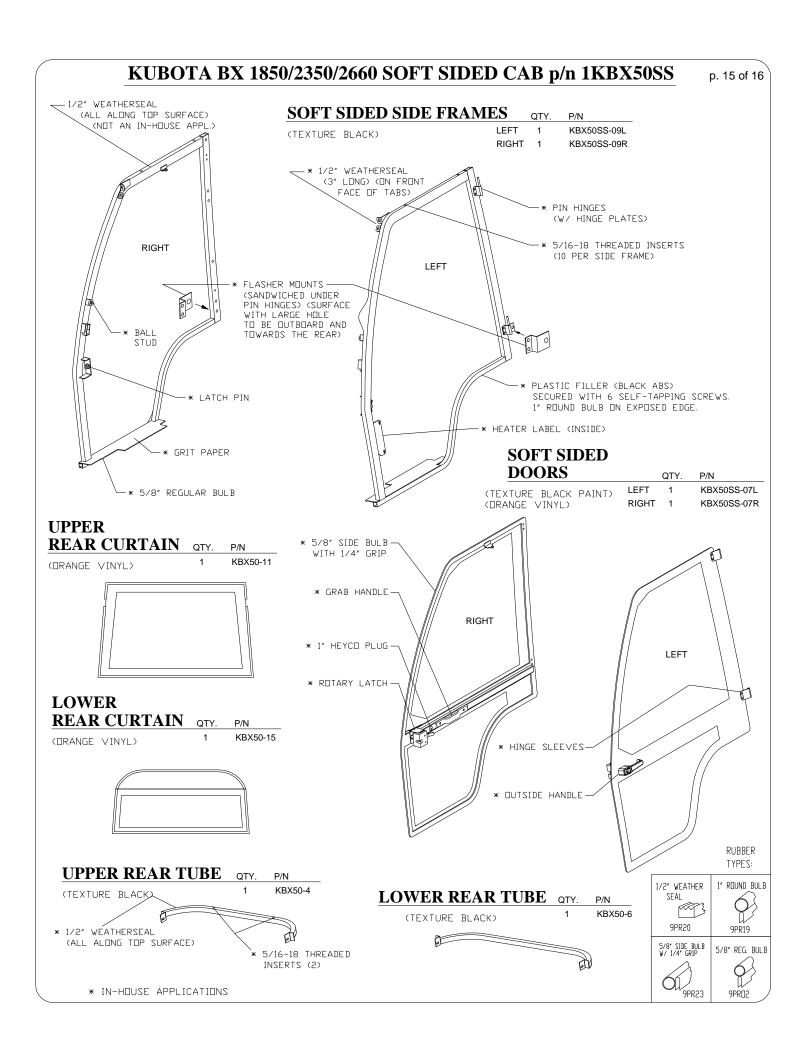
Fig. 26.4 (view from front of left side)



Fig. 26.4.1 (view from rear of left side)







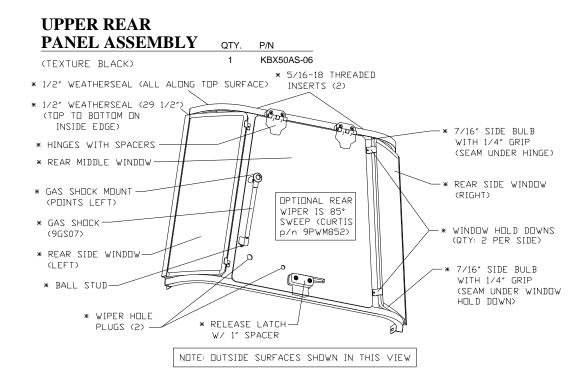
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#### KUBOTA BX 1850/2350/2660

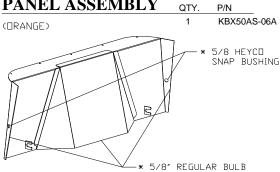
#### OPTIONAL REAR PANEL KIT FOR SOFT SIDED CABS

(p/n KBX50-06)

(contains the upper and lower assemblies and five self-drilling screws)
(does not include a rear wiper)







REAR PANEL HARDWARE KIT

06 - #10 × 5/8" LONG PAN HEAD, PHILLIPS HEAD SELF-DRILLING SCREWS

> RUBBER Types:

1/2" WEATHER SEAL 9PR20	7/16' SIDE BULB W/ 1/4' GRIP 9PR29
9PR10 Window Rubber	5/8* REG. BULB

\* IN-HOUSE APPLICATIONS