



**INSTALLATION MANUAL
172 DEGREE WIPER
(77700-VC5030, VC5030)
KUBOTA RTV-X900, RTV-X1120D, RTV-X1140, RTV-XG850**

CALIFORNIA PROPOSITION 65

⚠ WARNING:

Cancer and reproductive harm - www.P65Warnings.ca.gov

COMPATIBLE WITH THESE WINDSHIELDS:

VC5025 (tempered)

VC5023 (polycarbonate)

VC5020 (laminated)

DO NOT USE WITH THESE WINDSHIELDS:

V5027 (acrylic, clear)

V5028 (acrylic, tinted)

ONE OF THE FOLLOWING KITS IS REQUIRED:

VC5080 (switch panel / wire harness kit)

VC5081 (wire harness kit / single accessory)

BEFORE INSTALLING WIPER

- Read all instructions and safety instructions in this manual.
- Refer to your machine's operator's manual and safety instructions on your machine's safety decals.
- Wear appropriate personal protective equipment (PPE) when performing work.
- Disconnect negative (-) terminal on battery before performing work.
- Hang a "**DO NOT OPERATE**" tag in operator station.

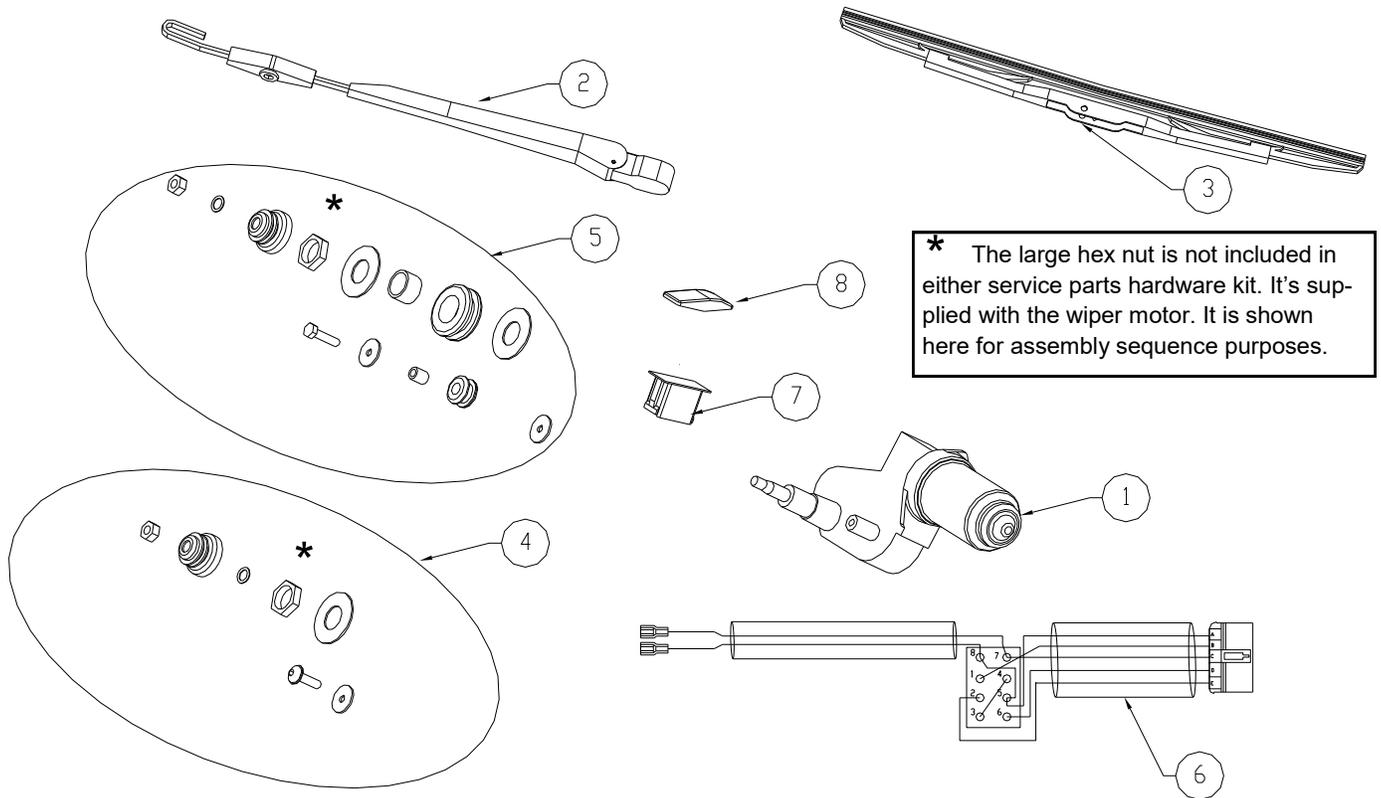
Estimated assembly time: 30 minutes

■ AVAILABLE REPLACEMENT PARTS

Ref. No.	Part No.	Part Name	QTY	REMARKS
1	77700-05160	165/172 Degree Wiper Motor	1	Code No.: 9PWM172 (contains one motor)
2	77700-05161	Wiper Arm, DIN Head Dry, J-Hook, Adj. Length 14"-18"	1	Code No.: 9PWA14/18 (contains one arm)
3	77700-05162	Wiper Blade, 16" Flex Blade, J-Hook	1	Code No.: 9PWB-16FBJH (contains one blade)
4	77700-05163	Wiper Hardware Kit (for VC5020 laminated windshields and VC5023 polycarbonate windshields)	1	Code No.: 9PWM172HWKM (contains one of each shown below)
5	77700-05164	Wiper Hardware Kit (for VC5025 tempered windshields)	1	Code No.: 9PWM172HWKG (contains one of each shown below)
6	77700-05165	Wire Harness w/o Relay (see NOTE below regarding a Relay)	1	Code No.: KX9-WPRWH (contains one harness)
7	70000-01157	Switch	1	Code No.: OHC-6 (contains one switch)
8	70000-01221	Switch Cover, Wiper	1	Code No.: 9PCD1-D (contains one cover)

NOTE:

For a relay service part, order p/n: 70000-01214 (Relay). This relay **is not** part of this VC5030 kit (172 Degree Wiper), but **is** part of supplemental kits VC5080 (Switch Panel / Fuse Block Kit) and VC5081 (Wire Harness with Relay for Single Accessory).





CAUTION

To avoid personal injury:

- Park the machine on a firm and level surface.
- Apply the parking brake if applicable.
- Stop the engine and remove the key from the machine if applicable.
- Disconnect negative (-) terminal on battery before performing work.

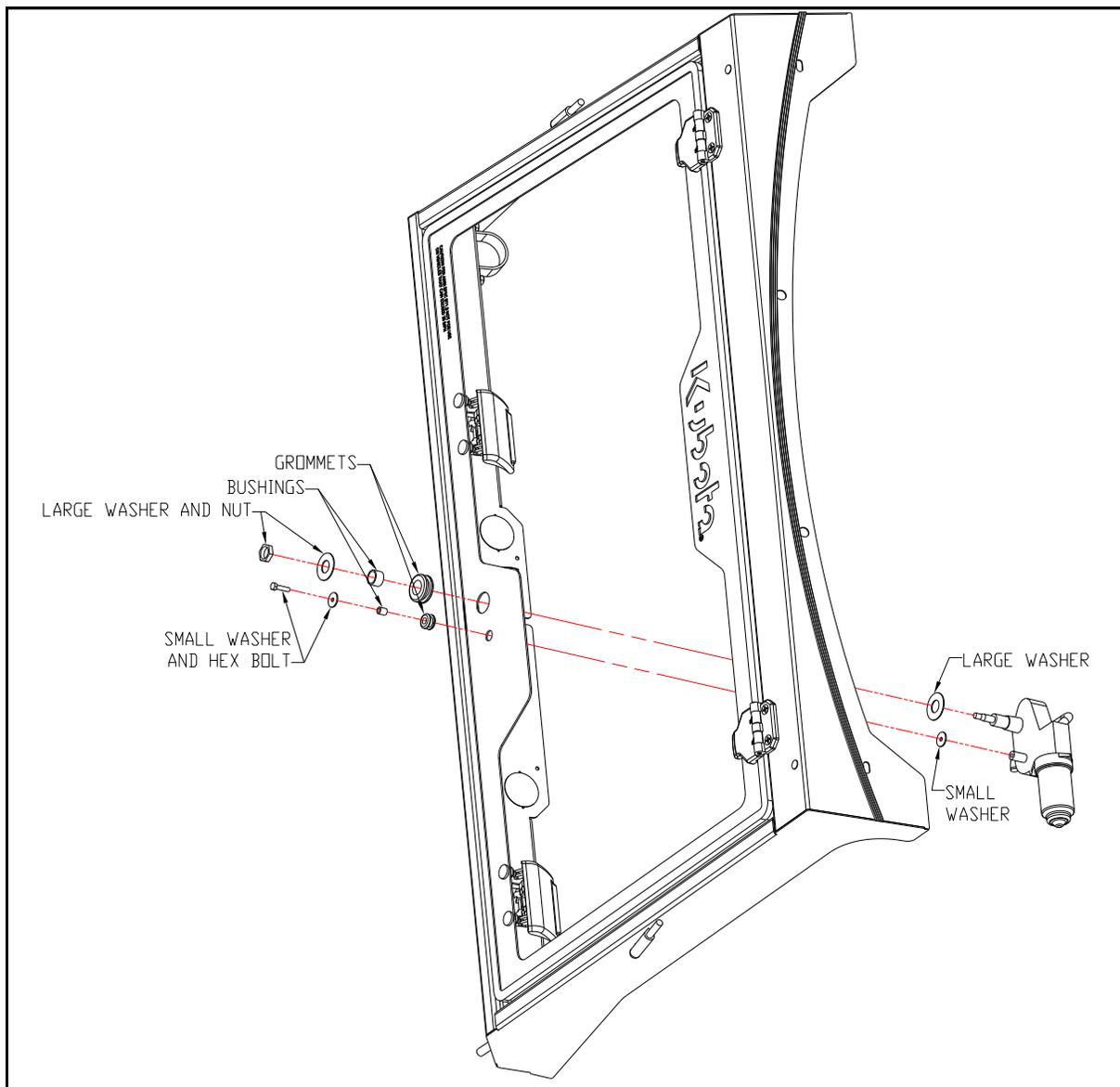
■ ASSEMBLY PROCEDURE

NOTE:

- **All assembly procedures listed within this manual are generally representative of the machine model for which the manual is written.** Your machine may be configured differently, but the outline for the procedure should still be followed. For further support for any issues not covered within the pages of this manual, please contact your local Kubota representative.

FOR VC5025 TEMPERED WINDSHIELD ONLY

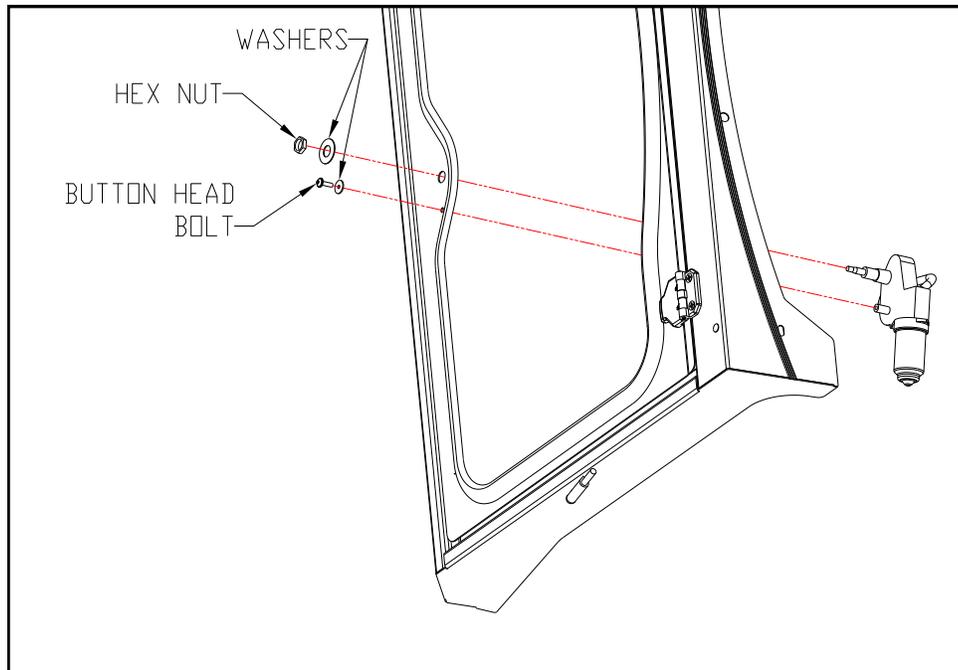
1. Remove plastic plugs from wiper mounting holes and install grommets in glass windshield.
2. Install the steel bushings in the grommets. **Note: if bushings are hard to push into grommets, a little liquid soap will ease installation.**
3. Remove the hex nut from the wiper motor shaft and install one of the large washers on the motor shaft. Insert the shaft through the large bushing, install another large washer and reinstall the hex nut.
4. Place one of the remaining flat washers on the hex bolt, position the second between the wiper motor and the small bushing and hold it in place, aligned with the small hole in the glass. Install the hex bolt and washer from the outside of the windshield and tighten all.



Tempered Windshield

FOR VC5020 LAMINATED WINDSHIELD ONLY

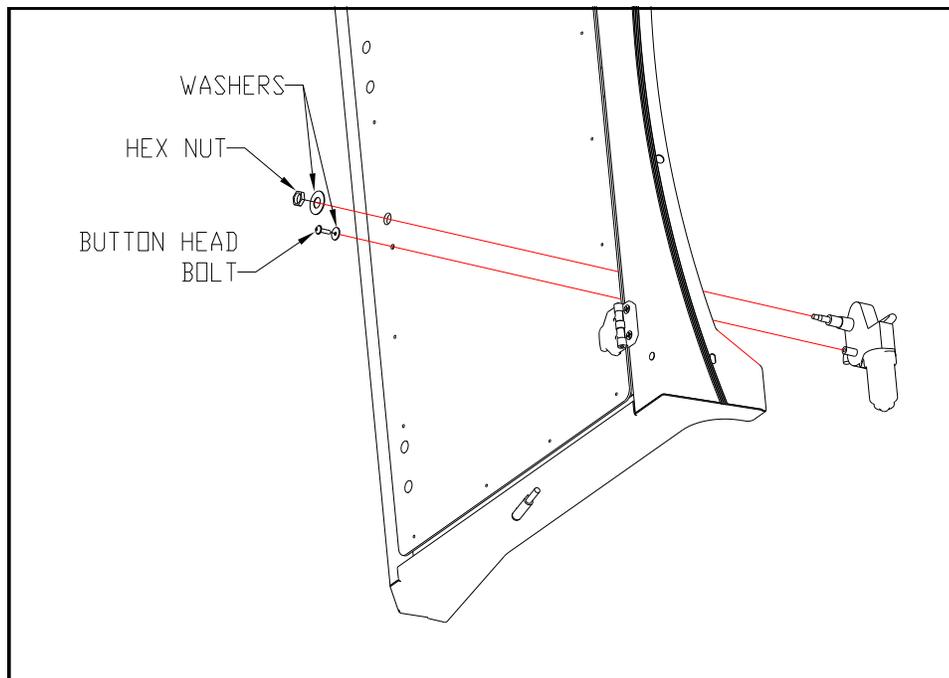
5. Remove plugs (and hardware for polycarbonate windshield) from wiper mounting holes.
6. Remove the hex nut from the wiper motor shaft. Insert the shaft through the large hole, install a large washer and reinstall the hex nut on the shaft.
7. Place the remaining flat washer on the button head bolt and install the bolt and washer from the outside of the windshield.
8. Tighten all hardware.



Laminated Windshield

FOR VC5023 POLYCARBONATE WINDSHIELD

9. Remove plugs (and hardware for polycarbonate windshield) from wiper mounting holes.
10. Remove the hex nut from the wiper motor shaft. Insert the shaft through the large hole, install a large washer and reinstall the hex nut on the shaft.
11. Place the remaining flat washer on the button head bolt and install the bolt and washer from the outside of the windshield.
12. Tighten all hardware.



Polycarbonate Windshield

ASSEMBLE BLADE TO ARM

13. Install wiper blade to wiper arm, engaging retainer clip into J-Hook on arm.

ASSEMBLE ARM TO MOTOR SHAFT

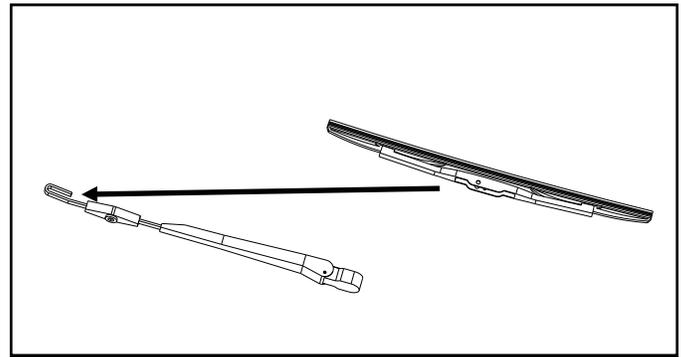
14. Install rubber boot over motor shaft. Rotate the cover on the end of the wiper arm up and out of the way as shown.

15. Position arm on motor shaft as shown. Note: tempered windshield shown. Position arm similarly for other windshields.

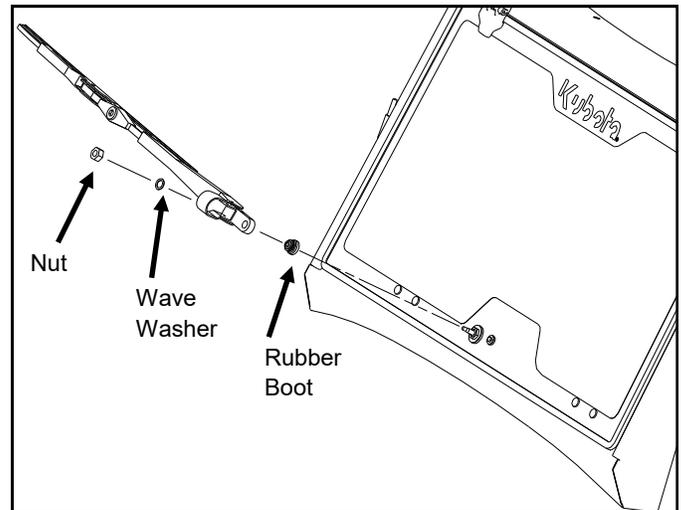
16. Install wave washer and hex nut onto wiper shaft and tighten.

LENGTH ADJUSTMENT

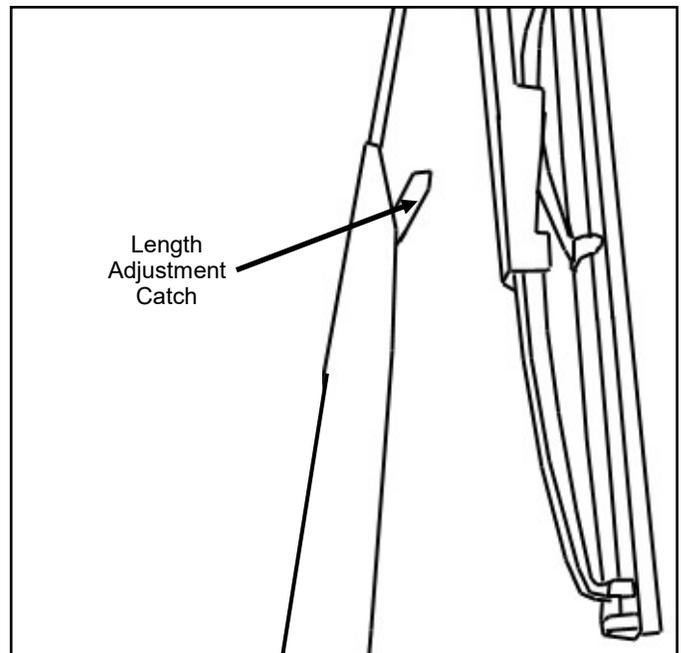
17. The length of the arm can be adjusted by prying open the catch as shown. On glass windshields, adjust the length of the arm so that the tip of the blade is out to the edge of the glass. On polycarbonate windshields, adjust the arm so the tip of the blade is 2 inches from the edge of the windshield.



Blade to Arm



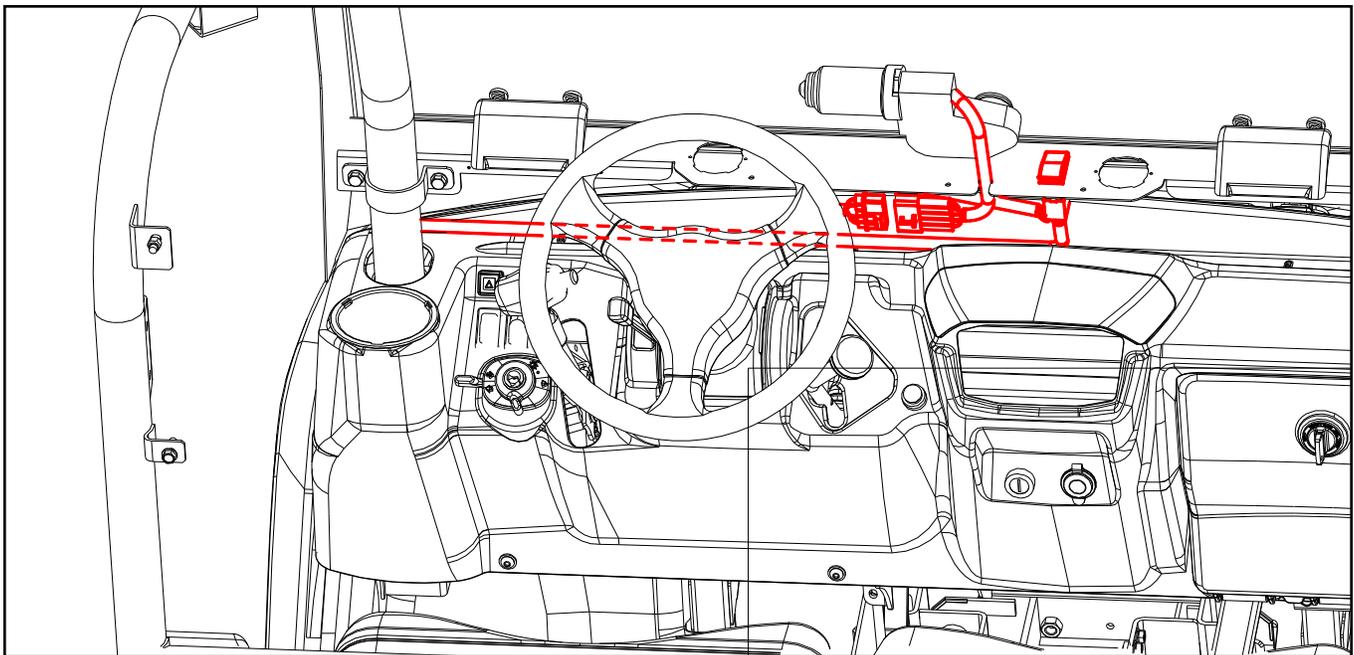
Arm to Motor Shaft



Length Adjustment

WIPER MOTOR WIRING

18. If a heater has already been installed, remove the hose cover from the bottom of the windshield.
19. Remove rectangular switch plug from windshield base and install the switch.
20. Plug the wiring harness into the connectors on the motor and the switch.
21. Per the illustration below, route the wiring along the base of the windshield and down through the hole in the dash at the driver's side ROPS tube.
22. Connect the red wire to the positive and the black wire to the negative of either the switch panel/wire harness for multiple accessories fuse block, or the 2-wire harness for single accessory, under the hood. If using switch panel/wire harness for multiple accessories, install the fuse provided in the appropriate location in the fuse panel.
23. If installing with the 2-wire harness for single accessory, install the fuse in the fuse holder located near the battery.
24. Reinstall the heater hose cover.



Wiper Motor Wiring