

56380497 TRANSAXLE KIT 24V

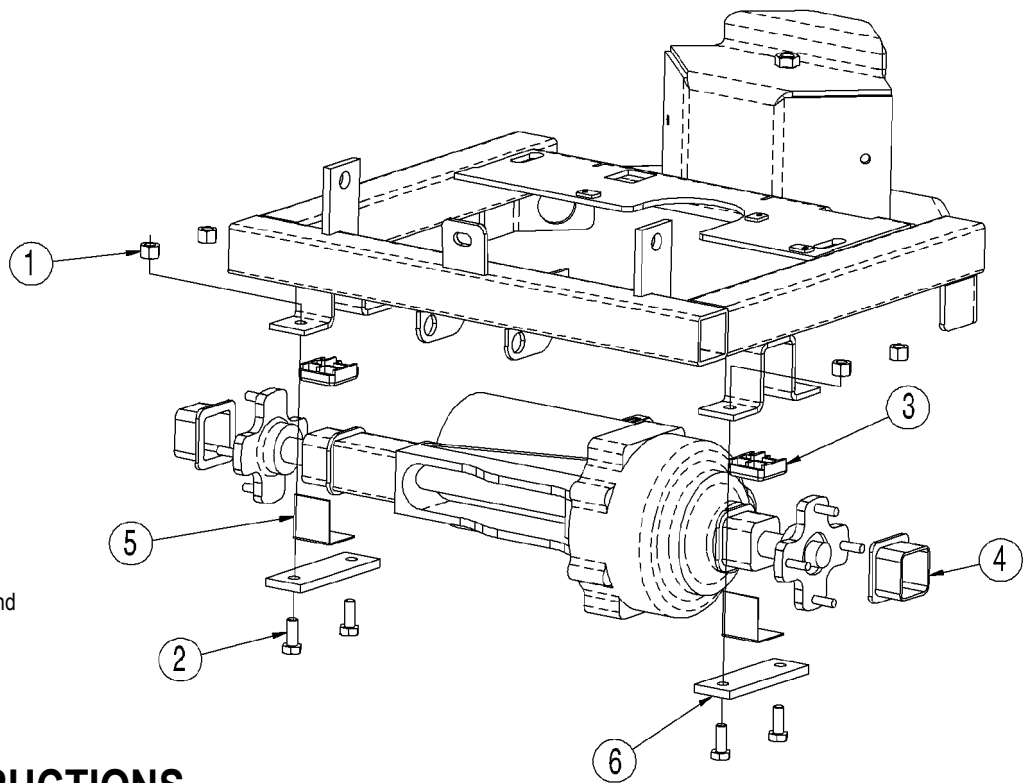
Convertamatic™ : ALL models
BA 625, 725, 825 series : ALL models
Adphibian™ : ALL models
AX651 Multi EDS : ALL models
AquaPLUS™ : ALL models

CONTENTS OF KIT

ITEM	PART NO.	QTY	DESCRIPTION
	56040998	1	Instruction Sheet
1	56003405	4	Nut, Hex Nyl Loc SS M8-1.25
2	56003435	4	Scr, Hex SS M8-1.25 X 20mm
3	56315258	2	Shim
4	56315379	2	Neoprene Mounting Sleeve
5	56380496	2	Shim, Angle, Transaxle
6	56380499	2	Plate, Transaxle

TOOLS NEEDED

Actuator Adapter Cord (56407502)
Small flat head screwdriver
Socket driver
Sockets and wrenches: 13mm, 18mm, 19mm
Wrenches: 1/2", 7/16"
Socket extension
Snap ring pliers
Mallet
Block of wood (2x4)
Silicone spray lubricant
Never-Seez® or equivalent anti-seize compound



INSTALLATION INSTRUCTIONS

DRAIN THE TANKS

- 1 Drain both the solution and recovery tanks and remove the squeegee.
- 2 **Convertamatic/BA 625 series** - Remove the Scrub deck by following the Scrub Deck Removal (disc or cylindrical) instructions located in the service manual (56043098 & 56043119). Then go to step 1 under "Battery Removal" on page 3 of this instruction sheet.
AquaPLUS, Adphibian/AX 651 Multi EDS - Remove the Scrub deck by following the steps below starting with step 1 of "Nose Cone & Vacuum Shoe Removal".

NOSE CONE AND VACUUM SHOE REMOVAL (AquaPLUS, Adphibian/AX 651 Multi EDS)

- 1 Lower the scrub deck with brushes (pads) installed. For AXP/EDS models, press the Pre-spray Switch to lower the deck without lowering the vacuum shoes. Turn the key switch off and disconnect the battery pack.
- 2 Lift up and remove cover and nose cone from front of machine.
- 3 Remove AXP/EDS bottle if present.
- 4 Remove hopper tray from back of brush deck.
- 5 Remove the left vacuum shoe by pulling off vacuum hose, then pushing shoe forward slightly to relieve pressure on pin, and then pulling pin to free up shoe. Move shoe to the side and repeat process for right shoe.

SCRUB DECK REMOVAL

- 1 **See Figure 1.** Remove maintenance solution hose at maintenance nozzle and restoration solution hose at its solenoid valve.
- 2 Unplug both brush motor wire assemblies (cable ties may need to be cut).
- 3 Remove GRN/YEL ground wire from side of left motor.
- 4 **See Figure 2.** Separate both gas shocks at their lower pivot link by using a small screwdriver to release ball clips; then pull to disconnect.
- 5 Disconnect the actuator wiring harness.

NOTE: Powering actuator while it is disconnected from deck will result in actuator drive nut being misadjusted.

- 6 **See Figure 2.** Utilize Actuator Adapter Cord (56407502) to move actuator slightly to where the Pin (A) can easily be removed. Then disconnect adapter cord.

FIGURE 1

solenoid valve
maintenance hose

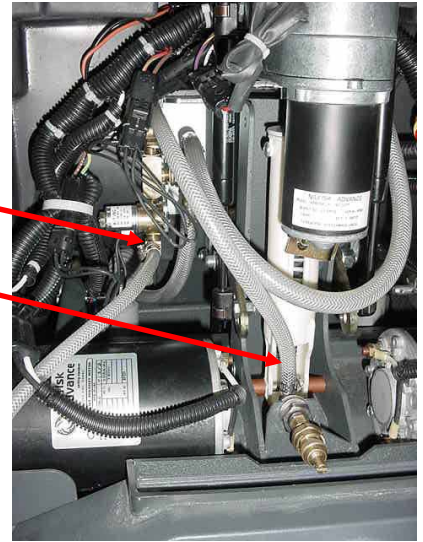
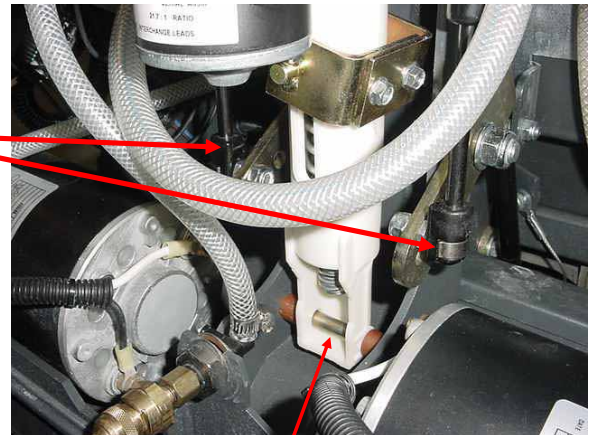


FIGURE 2

gas shock ball clips



- 7 **See Figure 3.** At rear of pivot link remove hardware items (B) then let link swing away.
- 8 Remove hardware that secures front Ball Joint End (C) of deck leveling turnbuckle and separate it from deck tower mount.
- 9 **See Figure 4.** Remove both Cotter Pins and Clevis Pins (D) and swing away chassis link arms.
- 10 At middle front edge of deck, lift up and tilt weldment backwards so that lower actuator housing can be maneuvered to clear center support tower to complete its removal.

FIGURE 3

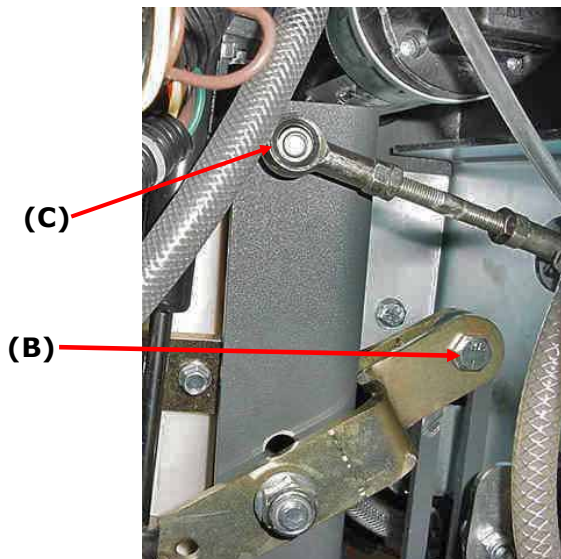
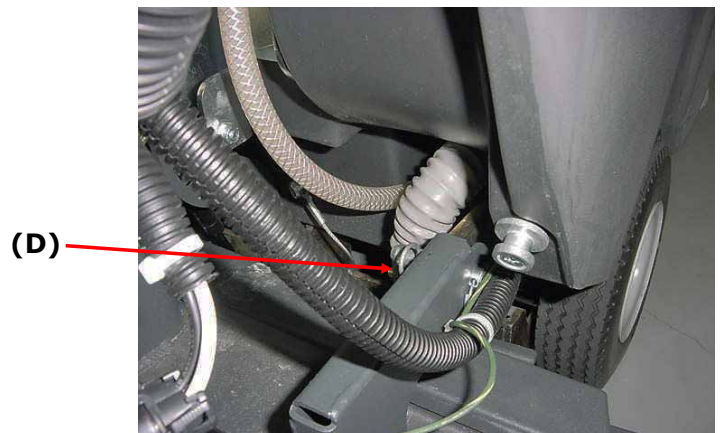


FIGURE 4



BATTERY REMOVAL

- 1 Disconnect red Anderson plug.
- 2 Disconnect batteries and remove them from machine. **NOTE:** Observe "Cautions" and be careful with thermistor terminal of black wire coming from onboard charger if present.

CAUTION!

Use common sense safety practices when tipping the machine on its side. Two people are recommended for this.

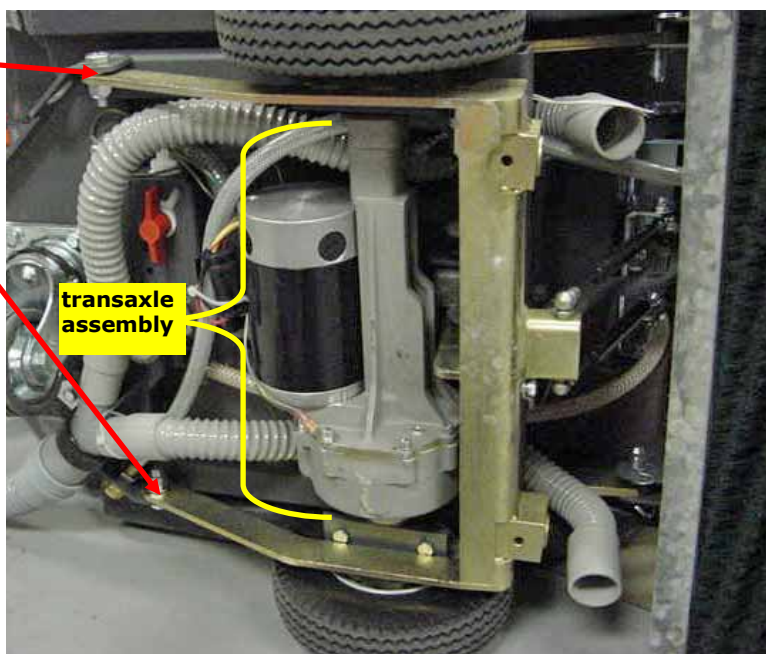
- 3 Carefully tip the machine onto its left side.

TRANSAXLE REMOVAL

- 1 AquaPLUS, Adphibian/AX 651 Multi EDS - **See Figure 5.** Remove the upper and lower bolts of the yellow chromate finish weldment. Be careful to observe bushings.
- 2 Tilt bracket out to the right to allow access to the transaxle assembly.

FIGURE 5

Upper and lower bolts
18mm bolt head
19mm nut



- 3 **See Figure 6.** Disconnect Ground Wire and Wiring Harness (A) from motor housing.

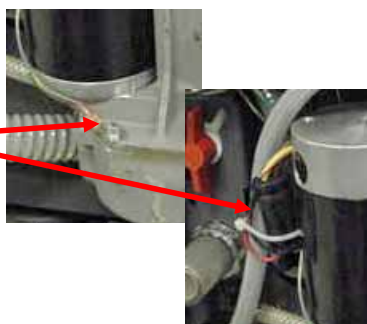
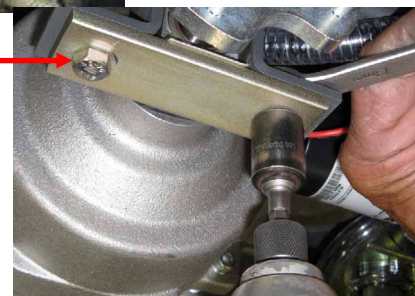


FIGURE 6

- 4 Using 13mm deep well socket or extension, remove Bolts (B) from transaxle plates and remove plates from Weldment.
- 5 Carefully remove transaxle assembly.



WHEEL REMOVAL / NEOPRENE MOUNTING SLEEVE REPLACEMENT

- 1 **See Figure 7.** Use a snap ring pliers to remove Snap Ring (A) from wheel shaft. Remove Shims (D) (if present)
- 2 Pull Wheel/Hub Assembly (B) off of shaft. Be careful not to lose the Key (E) located in the transaxle shaft. **Note:** The use of a gear puller or soft faced hammer or mallet may be required to remove a stubborn wheel/hub assembly.
- 3 Remove the old Mounting Sleeve (C).
- 4 Install a new Neoprene Mounting Sleeve (4) onto the transaxle. **NOTE:** Orient flange end of sleeve towards transaxle and away from shaft.
- 5 Lightly coat the woodruff key and the area of the shaft where the hub sits with Never-Seez® or equivalent anti-seize compound. Place the key back into the transaxle shaft and then slide the wheel back onto the transaxle. Reinstall any Shims (D) and secure using the Snap Ring (A).
- 6 Repeat steps 1-5 for the other wheel.

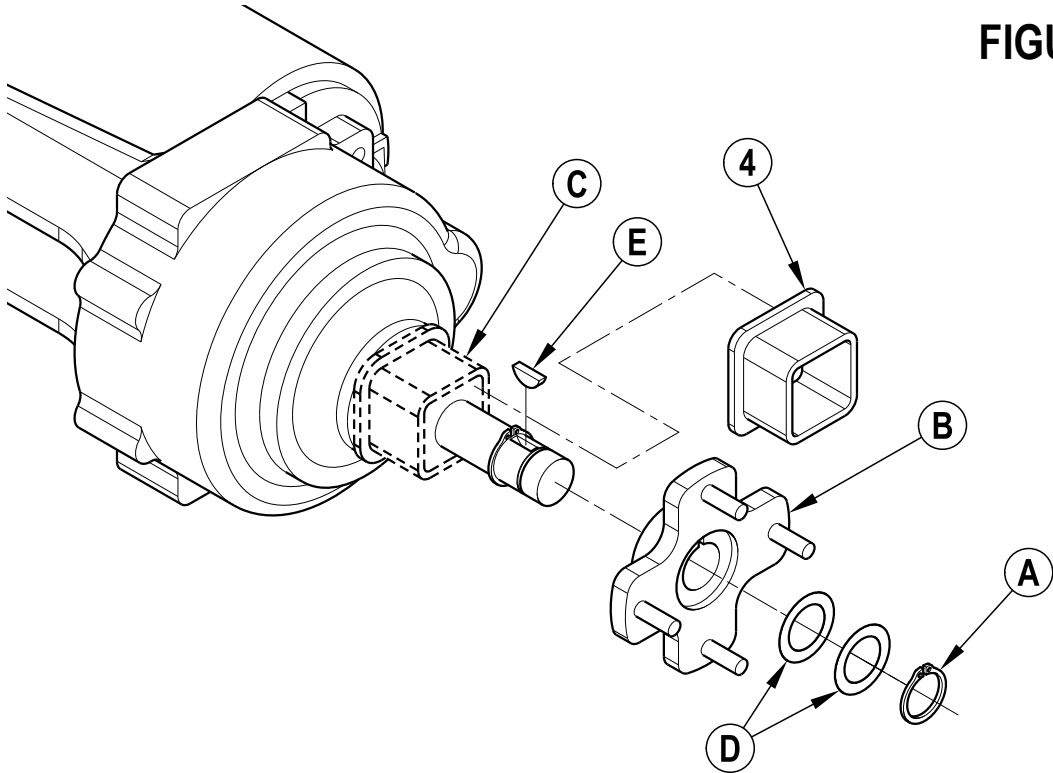


FIGURE 7

TRANSAXLE REPLACEMENT

- 1 **See Figure 8.** Set a new plastic Shim (3) from kit into each side of Weldment.
 - 2 Then set transaxle assembly back into weldment making sure **motor wiring is facing up towards tank** and **grounding tab is pointing down away from machine** as shown in Figure 5.
 - 3 Prop lower wheel so it's a few inches off the ground.
 - 4 **See Figure 9.** Using a mallet (and block of wood if needed), tap an Angle Shim (5) into the top mounting bracket being careful not to bend it. **NOTE:** Shim should contact mounting sleeve flange so it does not interfere with wheel. Use flat screwdriver to pry it into position if necessary. **NOTE:** If shim binds, coat with light layer of silicone spray lubricant.
 - 5 **See Figure 10.** Drop new Screws (2) from kit through holes in mounting bracket.
 - 6 Insert a new Plate (6) over screws and keep in place with two new Nuts (1) from kit.
- NOTE:** The holes in new Plate (6) are round instead of elliptical and the fit may be different. You will draw the mounting bracket weldment sides square using the new plate. This is an update and designed to minimize movement of transaxle within weldment.
- 7 Tighten nuts evenly, ½ a turn at a time, as you would lug nuts. (Double team with wrenches on the back side to speed up the process).
 - 8 Repeat the previous steps 4 – 7 for lower mounting bracket.

FIGURE 8



FIGURE 9



FIGURE 10

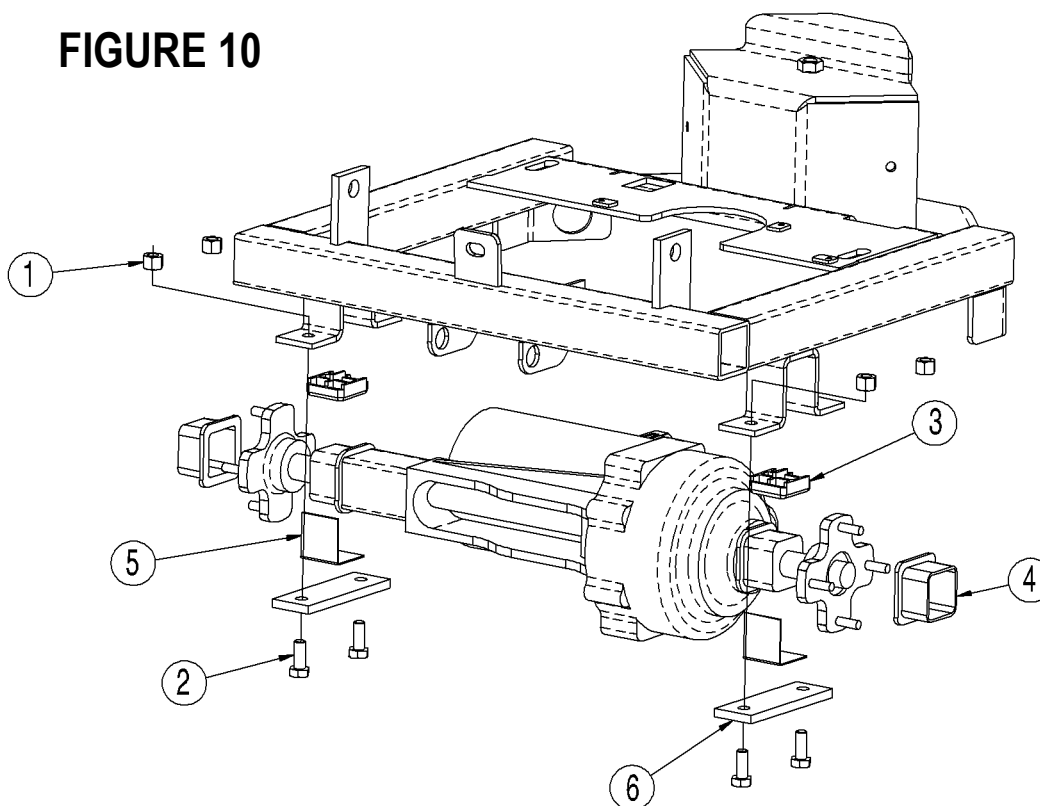
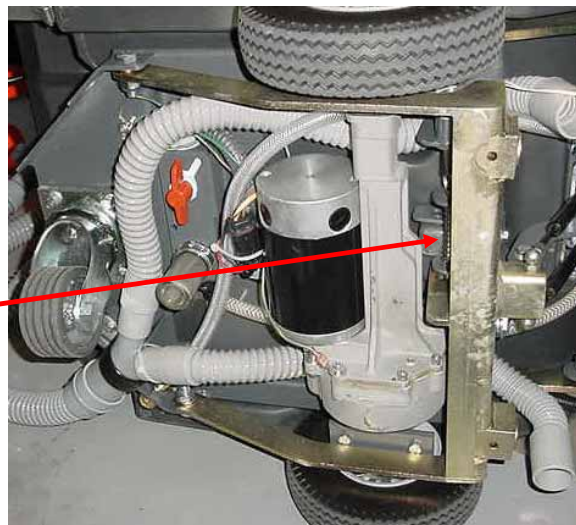


FIGURE 11

TRANSAXLE REPLACEMENT (STEPS SPECIFIC FOR; Adphibian / AX651 Multi EDS, AquaPLUS)

- 9 See Figure 11. Once both sides of transaxle are mounted, move yellow chromate bracket back into position, pulling Center Pin (A) to allow it in place.
- 10 Position yellow chromate bracket inside of gray frame flanges and bolt in from outside, with washer and nut on inside. **NOTE:** Bushing orientation is with the flange towards outside.
- 11 Repeat for other side.

(A)



TRANSAXLE REPLACEMENT – CONTINUED (All models)

- 12 Reconnect wire harness and ground wire to drive motor housing.
- 13 Check for any loose or disconnected hoses and connections (for example AXP/EDS pump).

FINAL ASSEMBLY

- 1 Carefully tip machine back into position.
- 2 Lift batteries back into compartment and reconnect per connection decal, being careful to observe positive and negative terminal orientation and onboard charger thermistor black wire terminal connection.
- 3 Place foam filler back into battery compartment.
- 4 Reinstall your scrub deck by following the removal steps in reverse order.
- 5 Reinstall the squeegee and extraction shoes if applicable.
- 6 Reconnect red Anderson connector.
- 7 Turn on machine and verify proper drive operation.