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Stinger Information

Quad AER Wheel Motors

Seal Kits

Seal Kit for Parker Wheel Motor – SK000091
If it has a Danfoss Wheel Motor - No seal kit available

Wheel Motors on QA3600

	Left Side	Right Side
QA3600 - GEN 1 - Ser 00000 - 39999	40-1361-2	40-1361 (Goes to a 40-1361-1)
QA3600 - GEN 2 - Ser 40000 - 49999	40-1361-2	40-1361 (Goes to a 40-1361-1)
QA3600 - GEN 3 - Ser 50000 - up	40-1361-2	40-1361-2 (Same motor used on both sides)

Service Information

The Lug Nut torque on QA's is 98ft/lbs 200
The Hub Castle Nut torque on QA's is 150ft/lbs
Hubs should be retorqued after the first 15hr's of use and every 200hr's thereafter.

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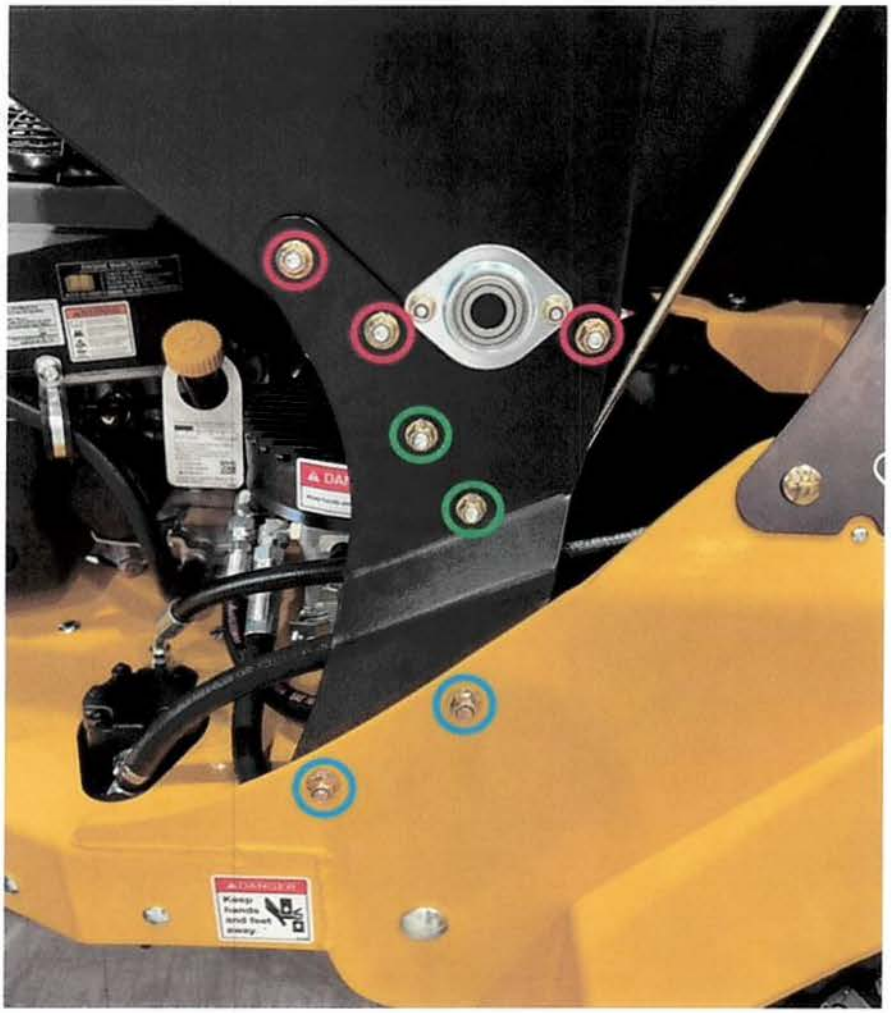
Stinger Quad AER Seed Box Adjustment

There are three points of adjustment when a seed gate is making contact with the seed box.

1. On each side of the unit loosen the three nuts outlined in red, the 2 nuts outlined blue and the two nuts outlined in green.
2. Occasionally the seed chute sticks on a bolt head and can be push down and back slightly. Retighten the green bolts on both sides once the chute is all the way back and down.
3. Push down on the box support brackets. Once they have bottomed out tighten the nuts outlined in blue (both sides).
4. Finally lift up on the seedbox and tighten the nuts outlined in red. There is a small amount of play in the seedbox and supports that when utilized can provide ***additional clearance for the seedgate.***



INFORMATIONAL BULLETIN 2023-3

Belt Tension Specifications & Instructions

Proper belt tension is critical to the machine's performance and longevity. Excessive tension can contribute to bearing wear and reduced pump lifespan. Inadequate tension leads to belt failures and diminished performance. Below are the recommended belt tension range for all QUAD-AER models, two methods for determining belt tension, and two options for adjusting tension.

Model	Pump	Recommended Belt Tension
Quad-Aer 3000	BDP10 pumps	50 +/-7 pounds (43-57 lbs.)
Quad-Aer 3600	BDP16 or BDP21 pumps	60 +/- 10 pounds (50-70 lbs.)
GT30	BDP12 pumps	65 +/- 5 pounds (60-70 lbs.)

How To Check Belt Tension On The Stinger QUAD-AER

Method 1 - Belt Tension Gauge

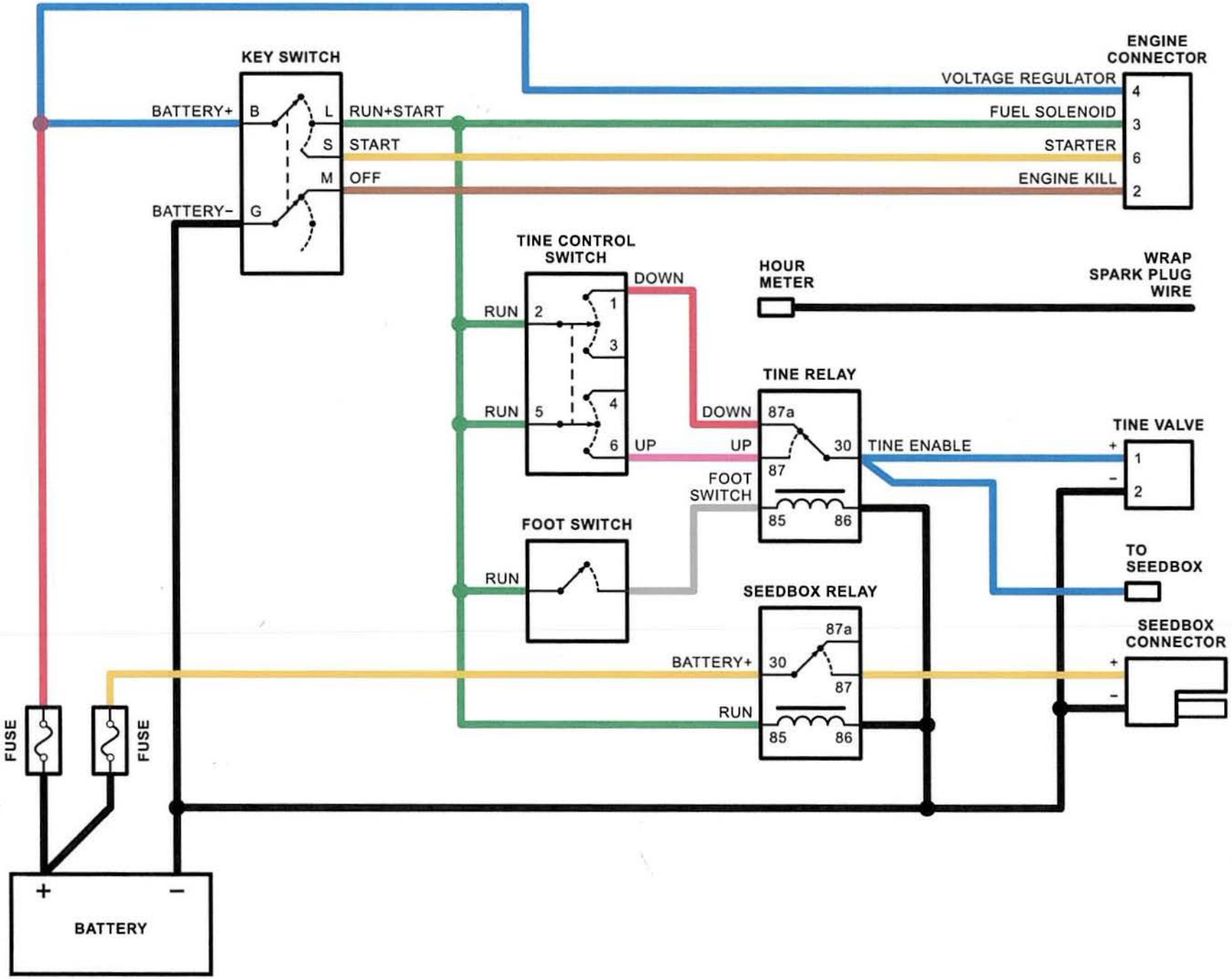
1. Perform the tension test on the right side (side opposite the gear pump).
2. Apply the belt tension gauge on the belt centered between the hydro pulley and the engine pulley.

3. Take the belt tension reading.

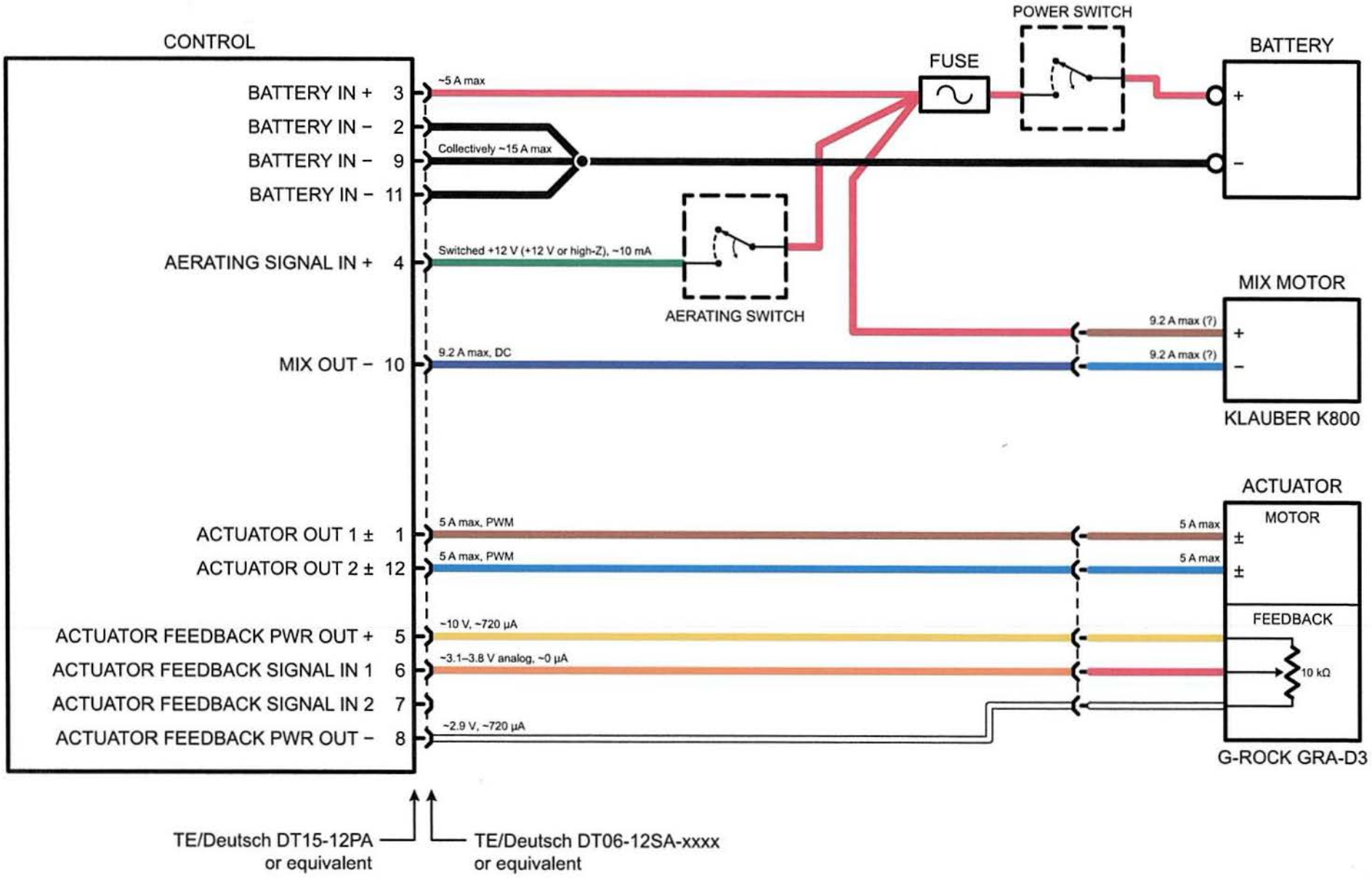
Method 2- Straight Edge

1. Perform the tension test on the right side (side opposite the gear pump).
2. Place a straight edge on the outer edge of the hydro pulley and the engine pulley. Press the center of the belt with minimal force (thumb push).
3. Measure the distance between the edge of the belt and the straight edge.
    a. Belt deflection on the QA3000 and QA3600 should be slightly over .500" but no more than .625".
    b. Belt deflection on the GT30 should be .500".

Stinger Quad AER Schematic



Stinger Quad AER Seed-box Schematic



SWB 2019.09.18

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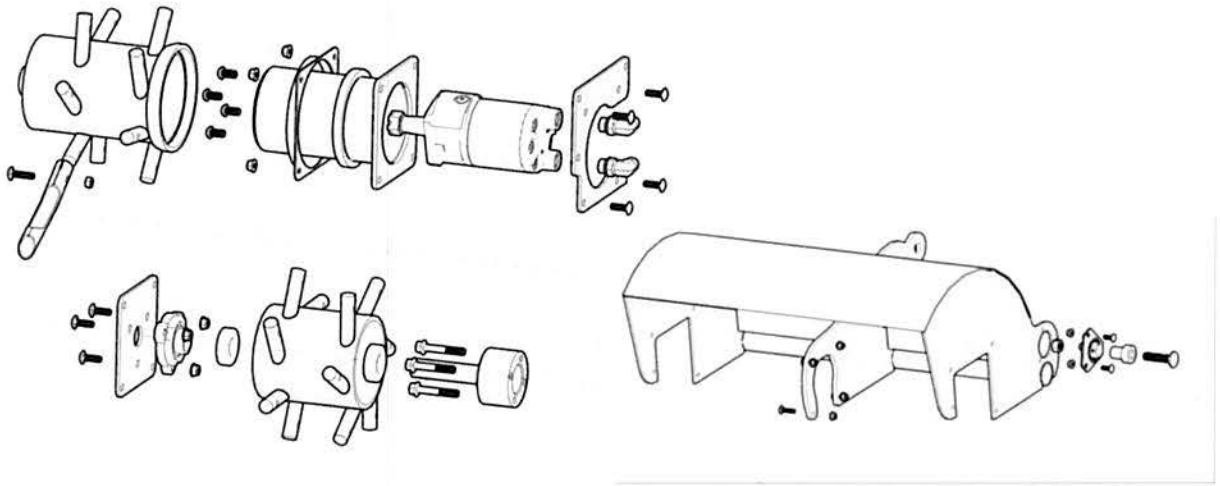
Written assembly Instructions for Stinger Gen 3 Tine Assembly (QA3000)



1. Place the motor in the motor mount.
2. Place motor mount plate on end and secure with 5/16 x 1.0" carriage bolts.
3. Place Lily bearing all the way down to the base of the motor mount.
4. Place dust cover over lily bearing.
5. With Loctite on 4 cap screws, place and tighten to hold lily bearing down.
6. Install the drive tine, lining up keyway.
7. Tighten the castle nut on the motor shaft and torque to 180 ft-lbs.
8. Place cotter pin in and fasten down.
9. Place floater shaft on assembly. (may need to hammer this down to fit snug)
10. Place long ⅜-16 x 2.25 hex flange bolts down and tighten to 31 ft-lbs.
11. Place the 1" bearing down snug on floater shaft.
12. Slide floater drum down over shaft making sure the deeper end goes first. (you should have no bigger than a 3/16" gap between floater and drive drums)
13. Insert the top 1" bearing.
14. Install the flange bearing and center bearing plate.
15. Place the center bearing plate on the trail arm assembly center bracket and secure with carriage bolts and nuts.
16. Repeat steps 1-12 for the other side of the tine assembly.
17. Install flange bearing with bushing on each side of the trail arm assembly.
18. Use a rod or device to ensure the bearings are in-line with each other.
19. Tighten flange bearing bolts.
20. With bushing installed in trail arm flange bearing, mount to the frame of the machine using the 5/8 x 2.75 carriage bolt & nut.
21. Hook up the hydraulic cylinder lift to the trail arm assembly.
22. Hook up the tine drive hydraulic hoses. (System purge at a later time.)