

TRD1107
Drive Wheel

KET3709PC-000
VFD TRACTOR ASSEMBLY

KET3709PC-000 VFD WHEEL REPLACEMENT

This document will assist with replacing the TRD1107 drive wheels on a Knight pneumatically engaged VFD tractor.

- Estimated replacement time: 45 min. per unit.
- Tools needed:
 - Metric and Standard Allen Wrenches
 - 24mm Wrench or 24mm Socket and Ratchet
 - ½" Socket W/Ratchet
 - Torque Wrench with ½" Socket



Allen Wrenches



24mm Wrench



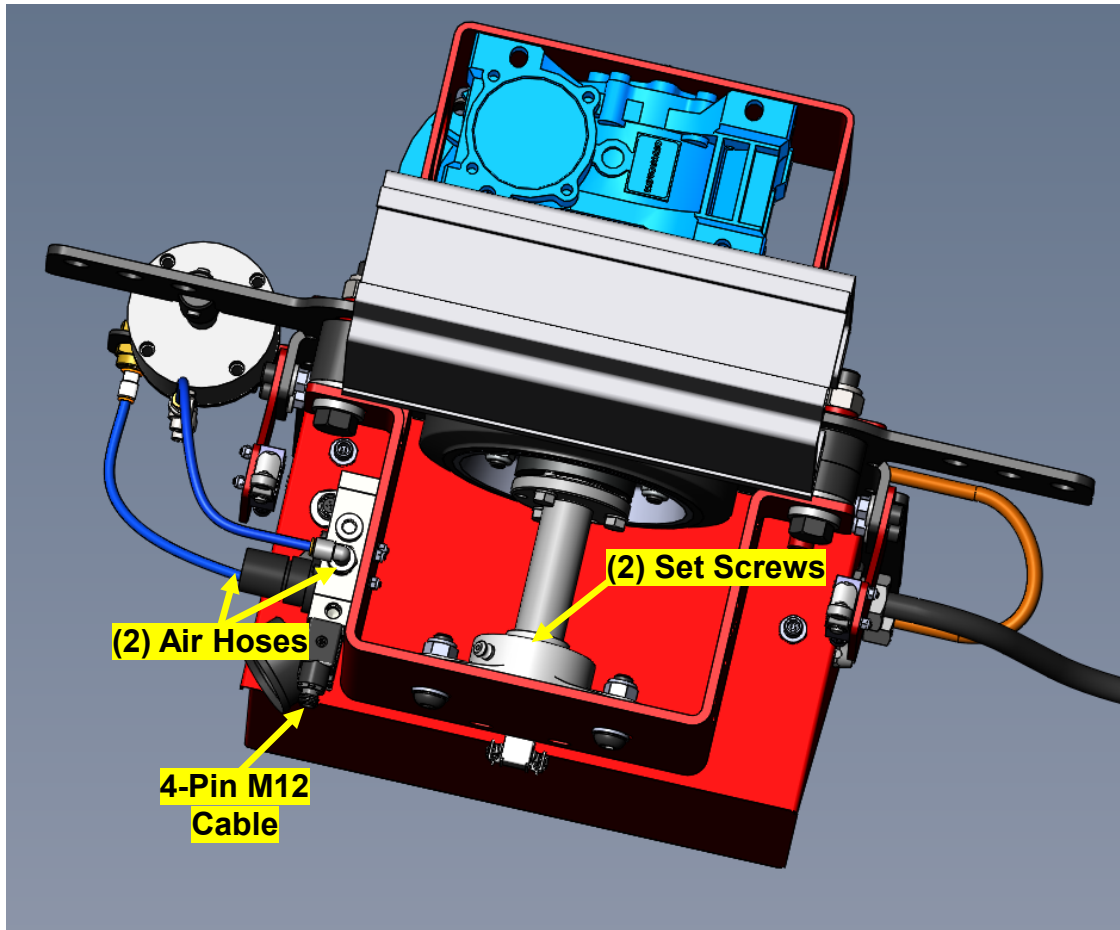
½"Socket and Ratchet



Torque Wrench

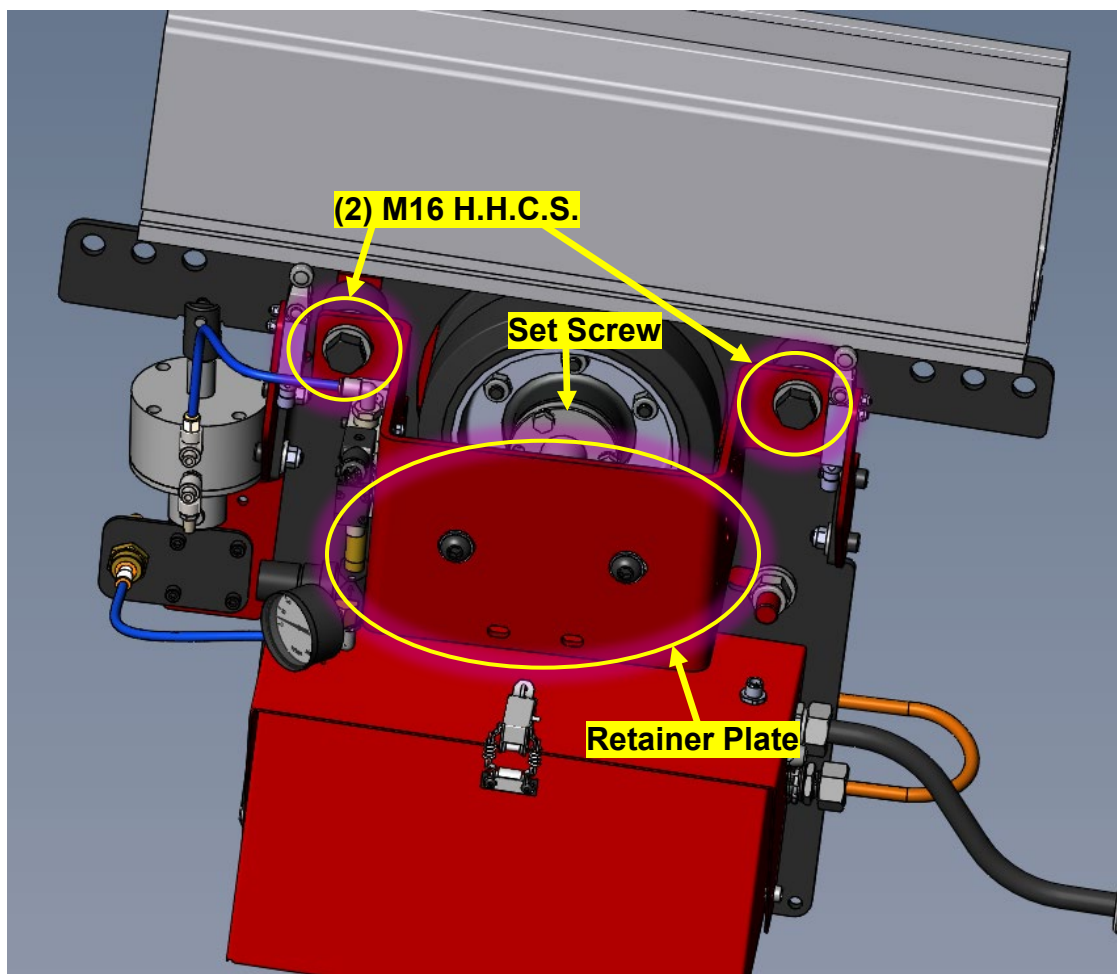
KET3709PC-000 VFD WHEEL REPLACEMENT

1. Turn off the air supply and electrical power to the system in accordance with all plant safety protocols.
2. Using a Standard 1/8" Allen Wrench, loosen the (2) set screws that lock the bearing onto the driveshaft.
3. Unplug the 4-pin M12 cable and (2) air hoses going into VFD Solenoid.



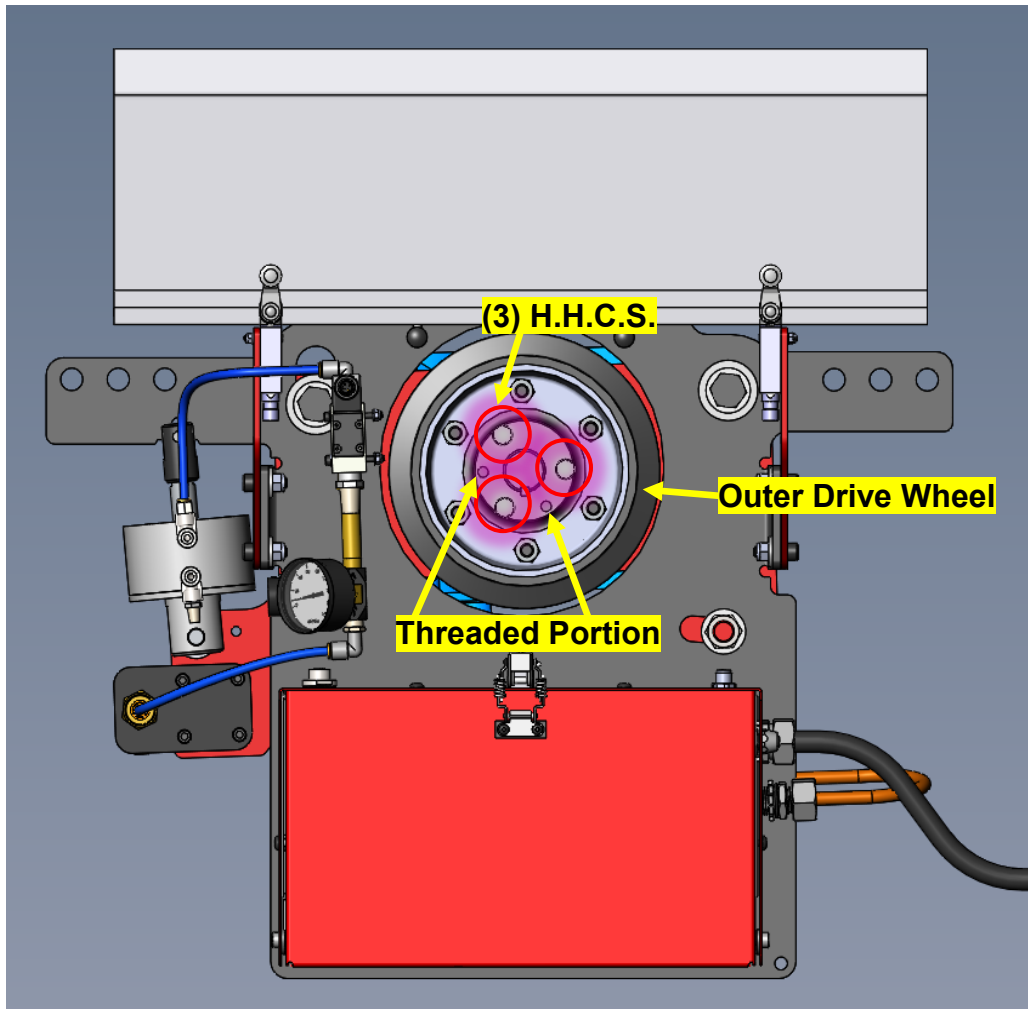
KET3709PC-000 VFD WHEEL REPLACEMENT

4. Using a metric 24mm Wrench and 24mm Socket, remove the (2) M16 H.H.C.S., allowing the removal of the bearing retainer plate.
5. Remove wheel hub set screw using a 3mm Allen Wrench.



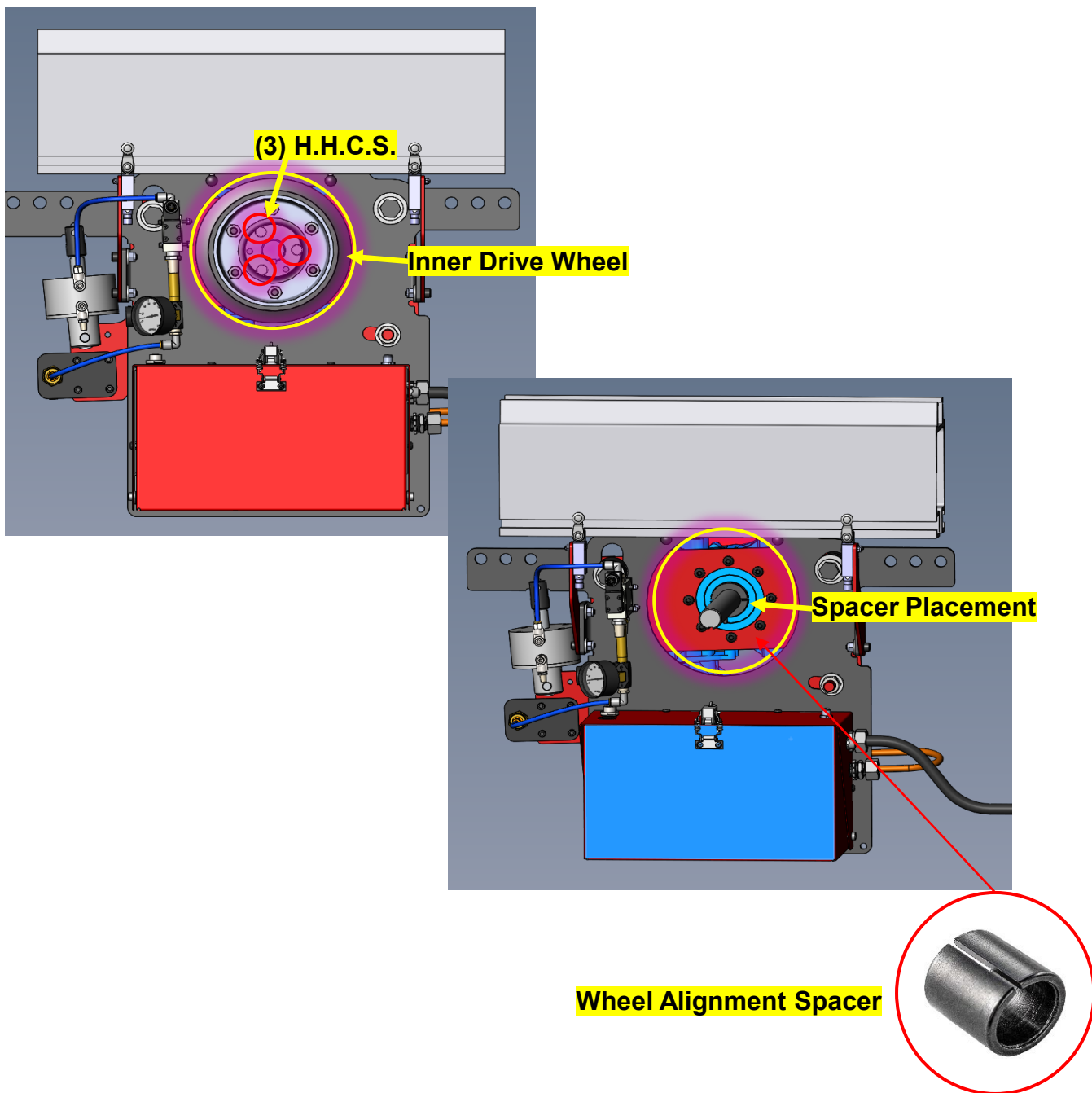
KET3709PC-000 VFD WHEEL REPLACEMENT

6. Remove the (3) H.H.C.S. using a ½" socket.
7. Insert (2) of the H.H.C.S. removed from step 6 into the **threaded** portion of the hub, then tighten the bolts snug, allowing the hub to dislodge from the tapered bushing on the driveshaft.
 - 7A. Remove the outer wheel.
 - 7B. Remove the (2) H.H.C.S. from the hub threaded portion.



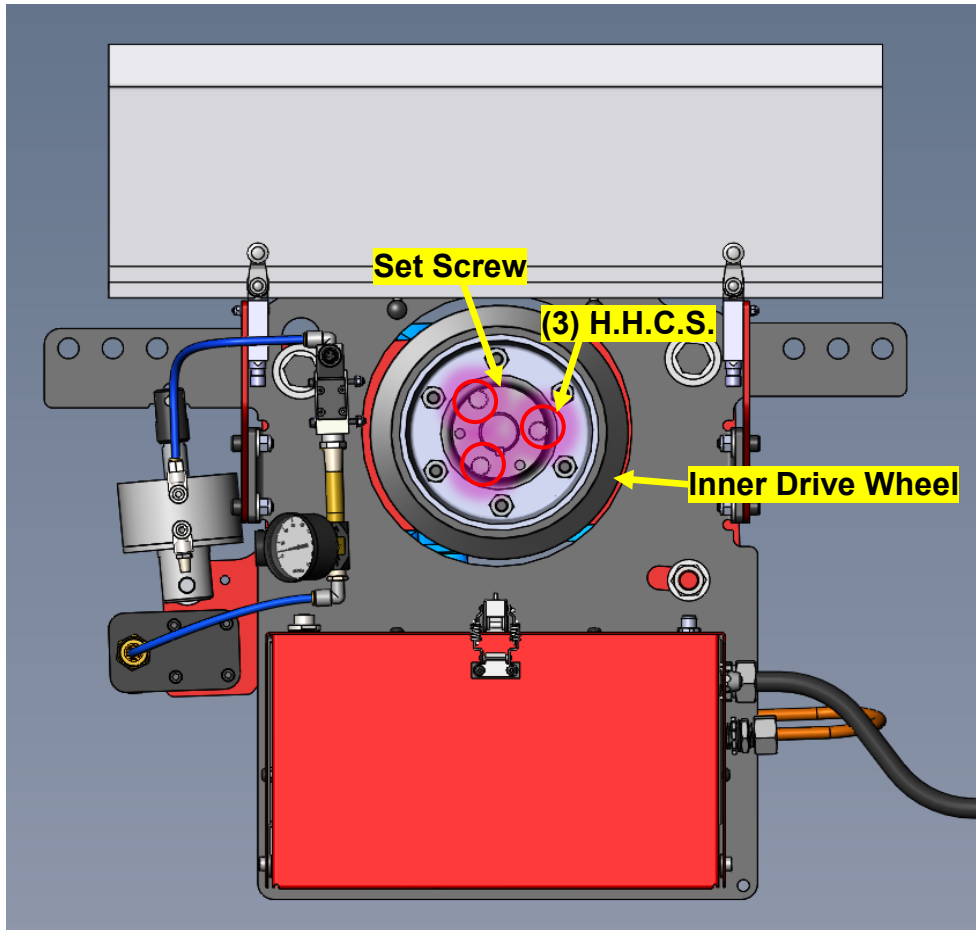
KET3709PC-000 VFD WHEEL REPLACEMENT

8. Repeat the process from Steps 5, 6, and 7 for the removal of the inner wheel.
9. Insert the wheel alignment spacer that is supplied with the replacement wheel kit onto the driveshaft.



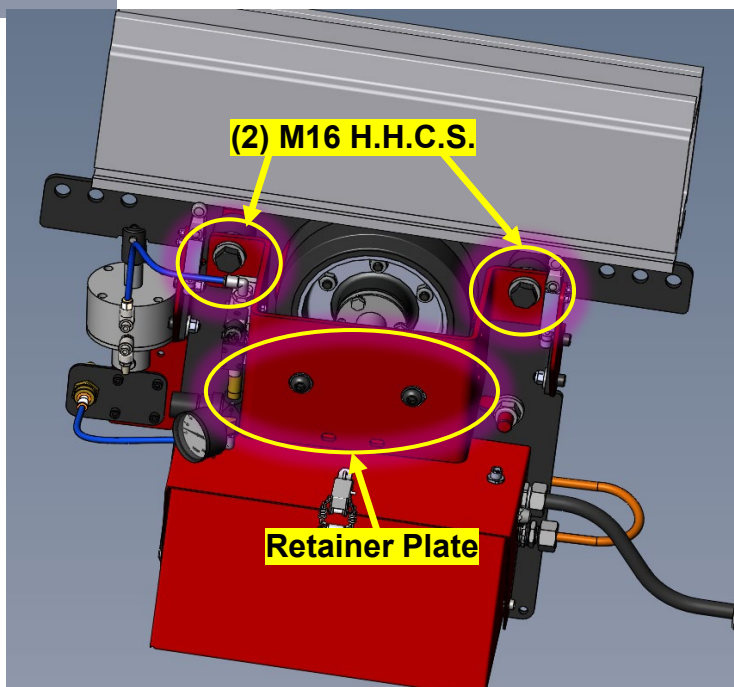
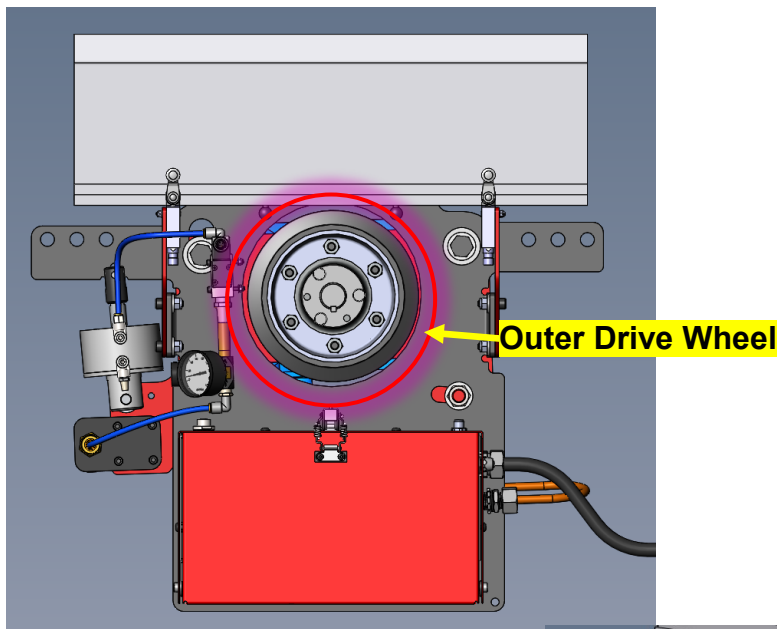
KET3709PC-000 VFD WHEEL REPLACEMENT

10. Install the new inner wheel assembly up against the wheel alignment spacer. Using a ½" socket, torque the (3) H.H.C.S. on the inner wheel hub to **192 in / lbs.**
11. Tighten the hub retaining set screw using a 3mm Allen Wrench **after** Step 10 is completed.



KET3709PC-000 VFD WHEEL REPLACEMENT

12. Outer Wheel: Repeat Steps 10 and 11 for installation of outer wheel.
13. Re-install the bearing retainer plate using the (2) M16 H.H.C.S. with a metric 24mm wrench and 24m socket.



KET3709PC-000 VFD WHEEL REPLACEMENT

14. Using a Standard 1/8" Allen Wrench, tighten the (2) set screws that lock the bearing onto the driveshaft.
15. Re-install the 4-pin M12 cable and (2) air lines.
16. Verify proper operation of the Tractor.

