



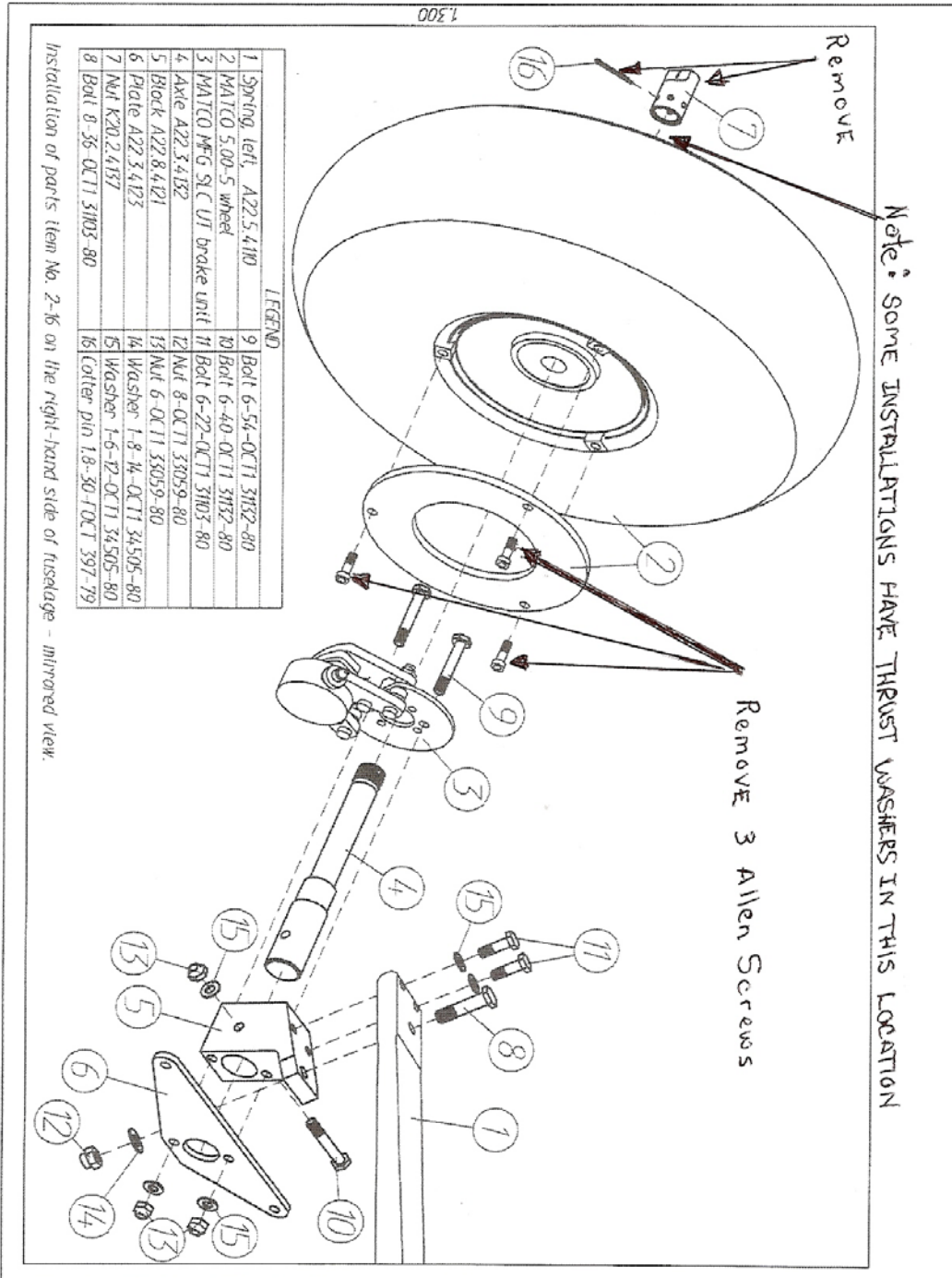
TIRE REMOVAL PROCEDURES FOR THE FPNA VALOR SERIES

MAIN LANDING GEAR TIRES REMOVAL

1. Jack up aircraft using wing jacks. Locate jacks just outboard of the wing strut centering the support under the forward wing spar and wing ribs.
2. Remove wheel pant using 10mm wrench or socket.
3. Cut safety wire and remove.
4. Remove the three Allen screws (2 on attached diagram) holding the brake rotor to the wheel.
DO NOT TRY REMOVING ROTOR.
5. Remove cotter/locking pin (16) from the retaining nut (7) and remove nut.
6. Slide tire/wheel assembly from spindle.
7. Replace/repair tire using aviation 6 ply 15X6.00 tube type tires.

Reassembly

1. Once tire/tube is on the wheel halves the six nyloc nuts need to be torque to 100 in/lbs.
2. Fill tire to proper pressure (23 psi) and leak test (sink full of water).
3. Install tire/wheel assembly on spindle and torque retaining nut (7) to 7 ft/lbs. **Note: some installations have thrust washers between the nut (7) and wheel.**
4. Align cotter/locking pin (16).
5. Using 221/222 Loctite secure the three Allen screws and brake rotor. Torque Allen screws to 40 in/lbs and safety wire.
Note: Check the safety wire clearance with brake pads by rotating wheel.
6. Re-assemble wheel pants.
7. Release pressure from wing jack and remove jack.
8. Recheck installation.
9. Repeat for other side if necessary.





NOSE WHEEL/TIRES ASSEMBLY REMOVAL

1. Carefully tie down tail of the plane to the ground, pitching the nose wheel assembly up off the ground.
2. Remove cotter/locking pin (7) from the retaining nut (5) and remove nut.
3. Remove washer (6).
4. Pull axle (3) from fork assembly.
5. The tire/wheel assembly will fall from the nose fork assembly. Two spacers (4) will be lose and fall as well. NOTE: Observe which side the spacers come from as they are of different lengths to accommodate the offset in the wheel.
6. Replace/repair tire using aviation 6 ply 15X6.00X6 tube type tires.

REASSEMBLY

1. Once tire/tube is on the wheel halves the six nyloc nuts need to be torque to 100 in/lbs.
2. Fill tire to proper pressure (23 psi) and leak test (sink full of water).
3. Reinstall wheel assembly on nose fork noting the location of each of the two spacers sleeves (4).
4. Slide axle (3) through the nose fork, spacer sleeve (4), wheel assembly, second spacer sleeve (4), nose wheel fork, washer (6).
5. Secure retaining nut (5). Torque retaining nut (5) to 7 ft/lbs and align cotter/lock pin (7).
6. Install new cotter/locking pin (7).
7. Carefully untie tail from ground anchor attachment and lower aircraft on to nose wheel.
8. Recheck installation.

