

These test procedures shall be complied to, without exception, annually.

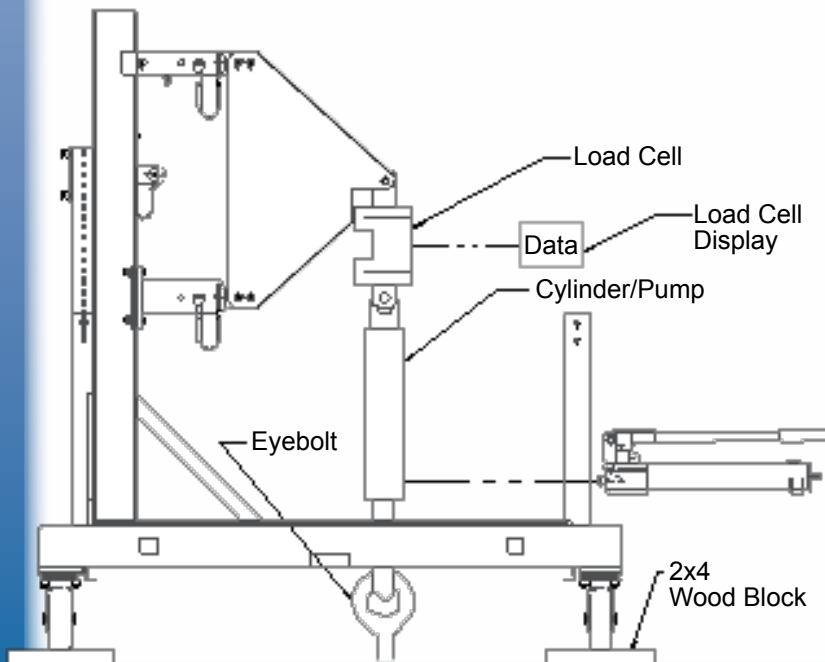
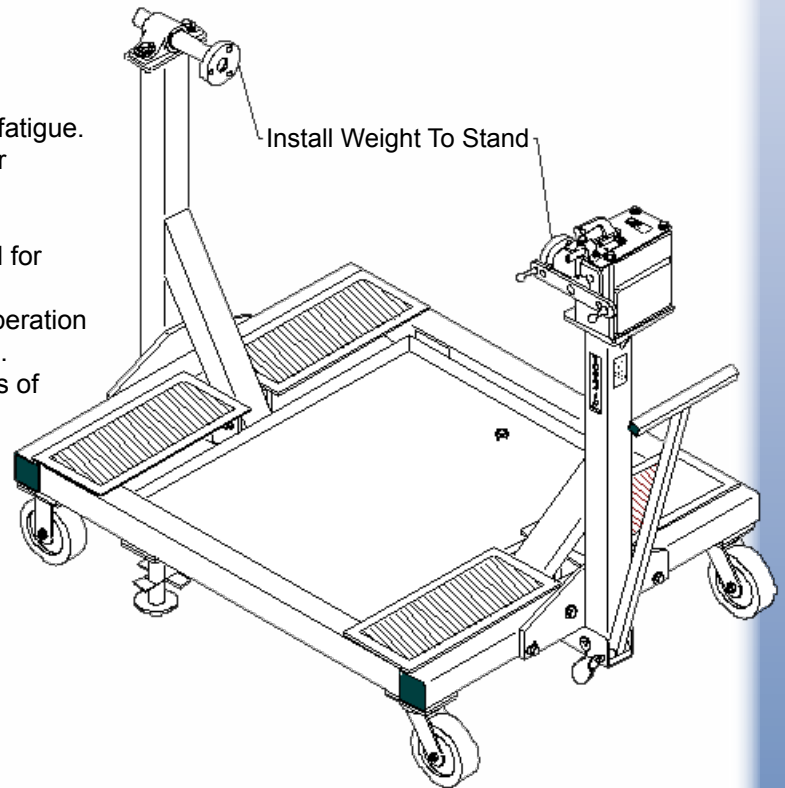
Model Number _____ Serial Number _____

Tested By _____ Date _____

Inspected By _____ Date _____

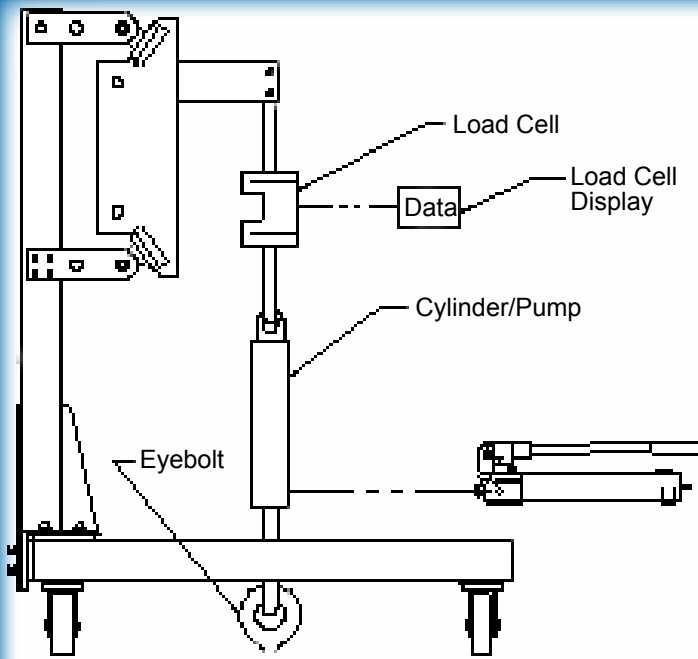
ROTATING ENGINE STANDS

1. Overall visually inspect stand for any signs of wear and fatigue.
2. Lubricate spindles and gear box as referenced in vendor literature if equipped.
3. Inspect anti-rotation locking mechanism if equipped.
4. Install weight equal to engine weight to the engine stand for approximately 2 min.
5. Rotate weight set 360° in both directions if equipped. Operation should be free of binding and/or catching during rotation.
6. Dismantle fixture and visually inspect stand for any signs of wear or failure. Any item, which does not successfully pass the test, is to be rejected and discarded or returned to Tronair for evaluation.



08-2030-0000 AND 08-2034-0000

1. Install engine stand test fixture.
2. Position beam assembly in the center of the engine stand.
3. Tighten beam locks evenly, until the beam assembly is locked in place.
4. Position engine stand over eye hook in floor. Line eye hook directly under pull point of the test fixture.
5. Install 2 x 4 inch block under wheels and lock stand in place.
6. Attach load cell, pull cylinder to eyebolt.
7. Put engine stand through two cycles of loading the engine stand to 3,000 pounds (2,667 psi on gauge). Hold for 30 seconds then release load.
8. Inspect all welds and joints for signs of distortion; if no defects are found, the engine stand is good.
9. If defects are found discard or return to Tronair for evaluation.

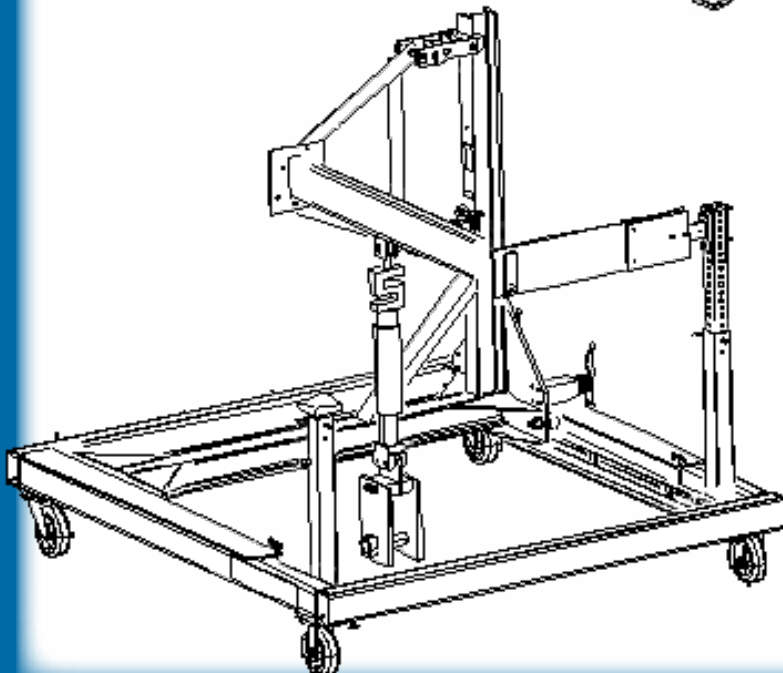
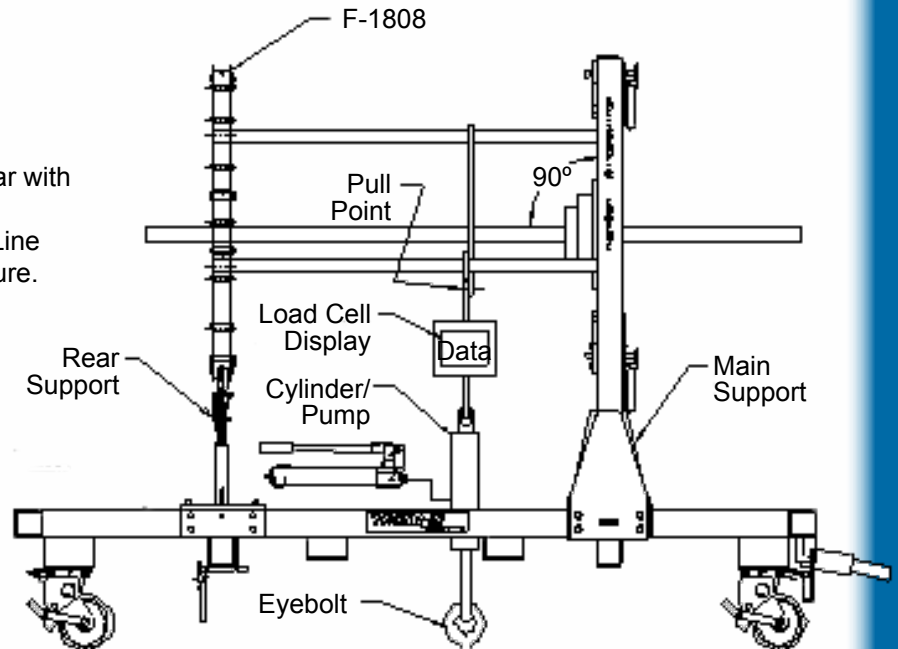


08-2018-0000

1. Install engine stand alignment fixture.
2. Tighten rear mount bolts after alignment is made.
3. Remove alignment fixture and install test fixture.
4. Position engine stand over eye hook in floor. Line eyebolt directly under pull point of the test fixture.
5. Attach load cell, pull cylinder to eyebolt.
6. Put engine stand through 2 cycles of loading engine stand to 3000 lbs. Hold for 30 seconds then release load.
7. Inspect all welds and joints for signs of distortion; if no defects are found, the engine stand is good.
8. If defects are found discard or return to Tronair for evaluation.

08-2029-0000, AE-3007-C

1. Install engine stand alignment fixture.
2. Adjust rear support until fixture is perpendicular with main support and pin in place.
3. Position engine stand over eye hook in floor. Line eyebolt directly under pull point of the test fixture.
4. Attach load cell, pull cylinder to eyebolt.
5. Put engine stand through two (2) cycles of loading engine stand to 3000 lbs. Hold for 30 seconds then release load.
6. Inspect all welds and joints for signs of distortion; if no defects are found, the engine stand is good.
7. If defects are found discard or return to Tronair for evaluation

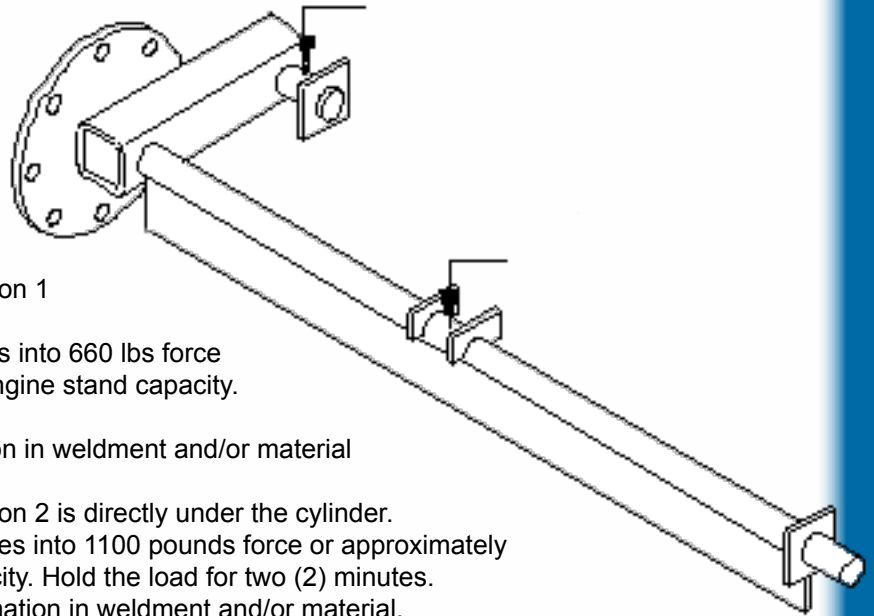


08-2034-0010

1. Remove oil pan.
2. Install engine stand test fixture, adjusting rear post height and beam location as required.
3. Lock beam position using the toggle clamps.
4. Position engine stand over eyelet in floor. Line eye hook directly under pull point of the test fixture.
5. Attach load cell, pull cylinder, and clevis assembly to eyelet.
6. Put engine stand through two(2) cycles of loading the engine stand to 4000 lbs. Hold for 30 seconds then release load.
7. Inspect all welds and joints for signs of distortion; if no defects are found, the engine stand is good.
8. If defects are found discard or return to Tronair for evaluation.

08-2023-0010

1. Overall visual inspection.
2. Install fixture into engine stand making sure that the flange on the fixture is positioned on the upright post with the ball lock pin.
3. Install fixture (push rod) onto the large hydraulic test fixture cylinder.
4. Place the engine stand under the test fixture hydraulic cylinder.
5. Position the engine stand so that pressure position 1 is directly under the cylinder.
6. Apply a hydraulic load of 60 psig -- this translates into 660 lbs force or approximately 150% of the maximum rated engine stand capacity. Hold the load for two (2) minutes.
7. Remove hydraulic load and check for deformation in weldment and/or material in the upright columns of engine stand base.
8. Position the engine stand so that pressure position 2 is directly under the cylinder.
9. Apply a hydraulic load of 100 psig -- this translates into 1100 pounds force or approximately 275% of the maximum rated engine stand capacity. Hold the load for two (2) minutes.
9. Remove the hydraulic load and check for deformation in weldment and/or material.
10. If defects are found discard or return to Tronair for evaluation.



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