



DOT AIR LEAK DOWN TEST

Matthew Munson 2019



COMMAND
YOUR ROAD

LEAK DOWN PROCEDURE

- The purpose of this leak down test is to ensure that the air system is operating correctly and the vehicle is safe to drive
- This test needs to be performed with the vehicle on the tires and ready for travel



AIR BUILD UP

- Start vehicle and build up air pressure until the dryer purges (should be between 125-135 psi on gauges)
- Shut vehicle off, then turn key on so gauges work
- Let air gauges settle, there should be a 10 psi drop in the Primary gauge, this is due to system regeneration (purge) and is normal
- With the air gauges settled, wait 1 minute and observe the gauges, there should be less than 3 psi drop in air pressure on either gauge



PARK BRAKE CHECK

- Chock wheels and release park brake, wait for air gauges to settle
- Once gauges are settled, wait 1 minute and observe the gauges, there should be less than 2 psi drop in air pressure on either gauge
- If more than 2 psi is lost then a air leak will need to be diagnosed and repaired
- Which gauge lost air? Focus on that system to eliminate wasted time



SERVICE BRAKE CHECK

- With park brake released, apply consistent medium pressure on service brake and let gauges settle
- Once gauges are settle, wait 1 minute and observe the gauges, there should be less than 2 psi drop in air pressure on either gauge
- If more than 2 psi is lost then a air leak will need to be diagnosed and repaired
- Which gauge lost air? Focus on that system to eliminate wasted time



LOW AIR TEST

- Pump service brakes until air is @ 60 psi, you should get a light and alarm for low air pressure
- Continue pumping service brake and watching to park brake knob, it should automatically set itself @ 25-40 psi
- This concludes the DOT air leak down test



QUESTIONS, COMMENTS, CONCERNS?





THANK YOU