

# **AIR BRAKE**

## **Low Air Warning**

(Release tractor spring brake and apply trailer spring brake no need to speak just do it practical) Pressing the brake pedal it activated at (60PSI) if activated below 55 PSI (make sure don't change the number) **IT IS MAJOR DEFECT.**

## **\*Compressor Operation \***

(Release tractor spring brake and apply trailer spring brake no need to speak just do it practical) Primary Gauge 85PSI time start and Secondary Gauge 100PSI time stop. If it takes more than 2 minutes it's minor defect.

## **\*Governor Operation \***

(Release tractor spring brake and apply trailer spring brake no need to speak just do it practical)

Check cut out pressure on 135PSI (check which gauge is moving up first) if cutout not between 120 to 145 its minor defect. Check cut in pressure press brake pedal to pressure 100PSI. (check both gauges which one is coming first on 100PSI) Gauges moving up if cut in below 100PSI its minor defect.

## **TUG TEST (BRAKE PERFORMANCE TEST)**

Check tractor spring brake check trailer spring brake and check trailer hand brake. And check tractor foot brake. **(Make sure when you are checking spring brake and trailer hand don't put your foot on pedal brake otherwise its failure)** if any brakes don't work **IT, IS MAJOR DEFECT.**

## **\*Tractor Protection System \***

(Apply both spring brakes and block wheel chocks)

Go out blocks the wheels and remove both airlines and no air leak from both airlines. Come inside to release tractor spring brake and turn off the truck and ignition on (hafh key) on and then press the foot brake no air leak from blue service line. If any air leaks from blue service line, **IT IS MAJOR DEFECT.**

Release the trailer brake all air leaking out from red supply line trailer brake comes out before 20psi (from example come out 45psi) good if come out below 20PSI **IT IS MAJOR DEFECT.**

## **\*Air leak test \***

(Release both spring brakes) Build pressure 110PSI (minimum on both gauges) turn off the truck and ignition on (Hafh key) on press the brake pedal for 1 minute. **(keep watching the gauges lots of students fail not watching gauges)** No air leak. If air leaks more than 4PSI in 1 minute, **IT IS MAJOR DEFECT.**

### **\*Air Brake adjustment (PUSHROD TRAVEL TEST) \***

(Release both spring brakes and block the wheels)

Build air pressure 90PSI to 100PSI (MAKE SURE NOT MORE THAN 100PSI AND NOT LESS THAN 90 PSI) Release both spring brakes and turn off the truck and ignition on (hafh key on) and then go out mark the push rod (if there is zip tie showing the examiner it's very important) This zip tie It's my 1st mark. Then apply the brake buddy.

Then measure the push rod (it's 1inch). Tractor It's type 20 long stroke brake chamber push rod that can travel up to 2 inches. If it's exceeded the limit, **IT IS MAJOR DEFECT.**

Trailer type 30 Short stroke brake chamber push can travel up to 2 inches if it exceeds the limit of **IT IS MAJOR DEFECT.**

Its additional: -Other side of same axle does not difference more than quarter inches if it's more than quarter inch, **IT IS MAJOR DEFECT.**

