TRUCK TROUBLESHOOTING GUIDE

1. COMRESSOR
   - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.
   - NOTE: If the compressor is manufactured by WABCO, refer to Maintenance Manual 31 (216 Compressor for Mack E Tech Engines) or contact the WABCO Customer Care at 855-228-3203 (Mexico 010-800-953-0248).

2. SUPPLY, PRIMARY AND SECONDARY AIR TANKS
   - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.

3. LOW PRESSURE INDICATOR SWITCH
   - BUZZER OR LIGHT INOPERABLE
   - Check and wiring on switch and buzzerlight.
   - Replace switch or buzzerlight.

4. SAFETY VALVE
   - "POPS" OFF EXCESSIVELY
   - Check system pressure.
   - Valve operating properly when venting at 140/150 P.S.I. (as required).
   - Check unloader/governor.
   - "POPS" OFF AT LESS THAN 140 P.S.I.
   - Replace.

5. DRAIN VALVES - MANUAL
   - LEAKS
   - Replace.

6. DRAIN VALVES - AUTOMATIC
   - WON'T DRAIN
   - Repair or replace.
   - WON'T DRAIN IN COLD WEATHER
   - Replace with heated unit.
   - LEAKS - MALFUNCTIONS
   - Repair or replace.
   - Periodic Test: with system pressure stabilized (compressor unloaded) no leak evident at discharge port - make several foot brake applications to reduce wet tank pressure. Moisture should drain from discharge port.

7. SINGLE CHECK VALVE
   - ALLOW BLEED BACK TO SUPPLY RESERVOIR
   - Periodic Test: bleed supply reservoir and observe gauges. Check valves should maintain primary and secondary reservoir pressure.
   - Replace if test results are negative.

8. PRESSURE CONTROL CHECK VALVE
   - WILL NOT PERMIT AIR TO PURGE AIR DRYER.
   - CHECK THAT ONE-WAY CHECK HAS BEEN REMOVED.

9. AIR GAUGE
   - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.

10. DUAL SYSTEM FOOT BRAKE VALVE
    - LEAKS AT EXHAUST WITH ALL BRAKES RELEASED
    - Check anti-compound double check valve #16.
    - Check #18A or 18B for back flow into service control line.
    - Check seal in spring brake for back-flow of spring “hold-off” pressure through service port to open exhaust on valve. Replace #15 Spring Parking Brake.
    - Check anti-compound double check valve portion for feedback to service chamber side of spring brake.
    - LEAKS AT EXHAUST WITH ALL PARK BRAKES SET IN PARK
    - CAUTION: CHOCK WHEELS - REPAIR AND REPLACE ITEMS AS NECESSARY.
    - LEAKS AT EXHAUST WITH ALL BRAKES APPLIED
    - Foot valve defective. Repair or replace.
    - Foot valve defective.

11. QUICK RELEASE VALVE
    - LEAKS AT EXHAUST PORT WITH ALL BRAKES RELEASED
    - Check and replace #18A or 18B if back flow occurs into secondary control line.
    - LEAKS WHEN SERVICE BRAKES ARE APPLIED
    - Foot valve defective. Repair or replace.

12. SERVICE BRAKE CHAMBER
    - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.

13. SLACK ADJUSTER
    - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.
    - NOTE: If the slack adjusters are manufactured by WABCO refer to Maintenance Manual 48 (Automatic Slack Adjusters) or contact the WABCO Customer Support Center at 855-228-3203.

14. RELAY VALVE
    - LEAKS AT EXHAUST PORT WITH ALL BRAKES RELEASED
    - Check seal in spring brake for back-flow of spring “hold-off” pressure through service port to open exhaust on valve.
    - Replace #15 Spring Parking Brake.
    - Check seal in spring brake for back-flow of spring “hold-off” pressure through service port to open exhaust on valve.
    - Replace #15 Spring Parking Brake.

15. SPRING PARKING BRAKE (SERVICE ONLY)
    - SERVICE CHAMBER SIDE OF SPRING BRAKE
    - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.

16. QUICK RELEASE AND DOUBLE CHECK VALVE COMBINATION
    - FOOT VALVE EXHAUST LEAK PARK BRAKES RELEASED
    - Check anti-compound double check valve for feedback to foot or dash control valve.
    - Repair or replace.

17. STOP LIGHT SWITCH
    - LEAKS
    - Replace.
    - FAILS TO SIGNAL A GOOD BULB THROUGH SOUND WIRING AT LIGHT SWITCH
    - Replace.

18. INVERSION RELAY VALVE WITH THE LOSS OF REAR SERVICE BRAKES
    - APPLICATION OF SPRING BRAKE BY USING THE EMERGENCY SECTION SHOULD BE AVAILABLE ALONG WITH FRONT SERVICE BRAKE BY APPLYING FOOT VALVE
    - PERIODICALLY TEST BY BLEEDING PRIMARY SERVICE TANK AND OBSERVING FRONT BRAKE AND REAR SPRING BRAKE APPLICATION UPON DEPRESSING FOOT PEDAL. REPAIR OR REPLACE, IF AFTER CHECKING INVERSION VALVE IS NOT FUNCTIONING PROPERLY.
    - LEAKS
    - Repair or replace.

19. AIR DRYER
    - AIR LEAKING CONSTANTLY FROM PURGE VALVE
    - Purge valve seal damaged. Replace. Purge valve frozen. Inspect heater (see heater problems).
    - HEATER INOPERATIVE
    - Blown Fuse. Check fuse and replace with 8-10 amp fuse Broken wires or poor connections. Repair or replace wiring to heater.
    - SLOW WET TANK BUILD-UP
    - Filter and/or desiccant plugged. Service air dryer.

20. ABS ELECTRONIC CONTROL UNIT, MODULAR VALVES, SENSORS, AND TOOTH RINGS
    - FOR TROUBLESHOOTING INFORMATION REFER TO THE OEM OPERATING INSTRUCTIONS.

21. FRONT AXLE VALVE PACKAGE
    - COMBINES TWO MODULATOR VALVES AND QUICK RELEASE VALVE.

22. REAR AXLE VALVE PACKAGE
    - COMBINES TWO MODULATOR VALVES AND RELAY VALVE.
    - NOTE: If the vehicle has WABCO ABS, refer to WABCO Maintenance Manual 28 (C version ABS) or 30 (D version ABS).