Compressed Air System Circuit Description

Section 05-01-04

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Circuit Descriptions

The air compressor is used to compress air which is then passed through an air dryer to remove moisture and debris from the air. The air is then passed from the dryer to the distribution reservoir. From this reservoir, the air passes to three other reservoirs and the air horn and cab blow out hose. The front and rear brake reservoirs provide air to the brakes of their respective system. Check valves are placed between the distribution reservoir and the other reservoirs. Should a leak develop, these check valves prevent air from back feeding into the distribution system. Solenoids are used to activate the brake actuators.

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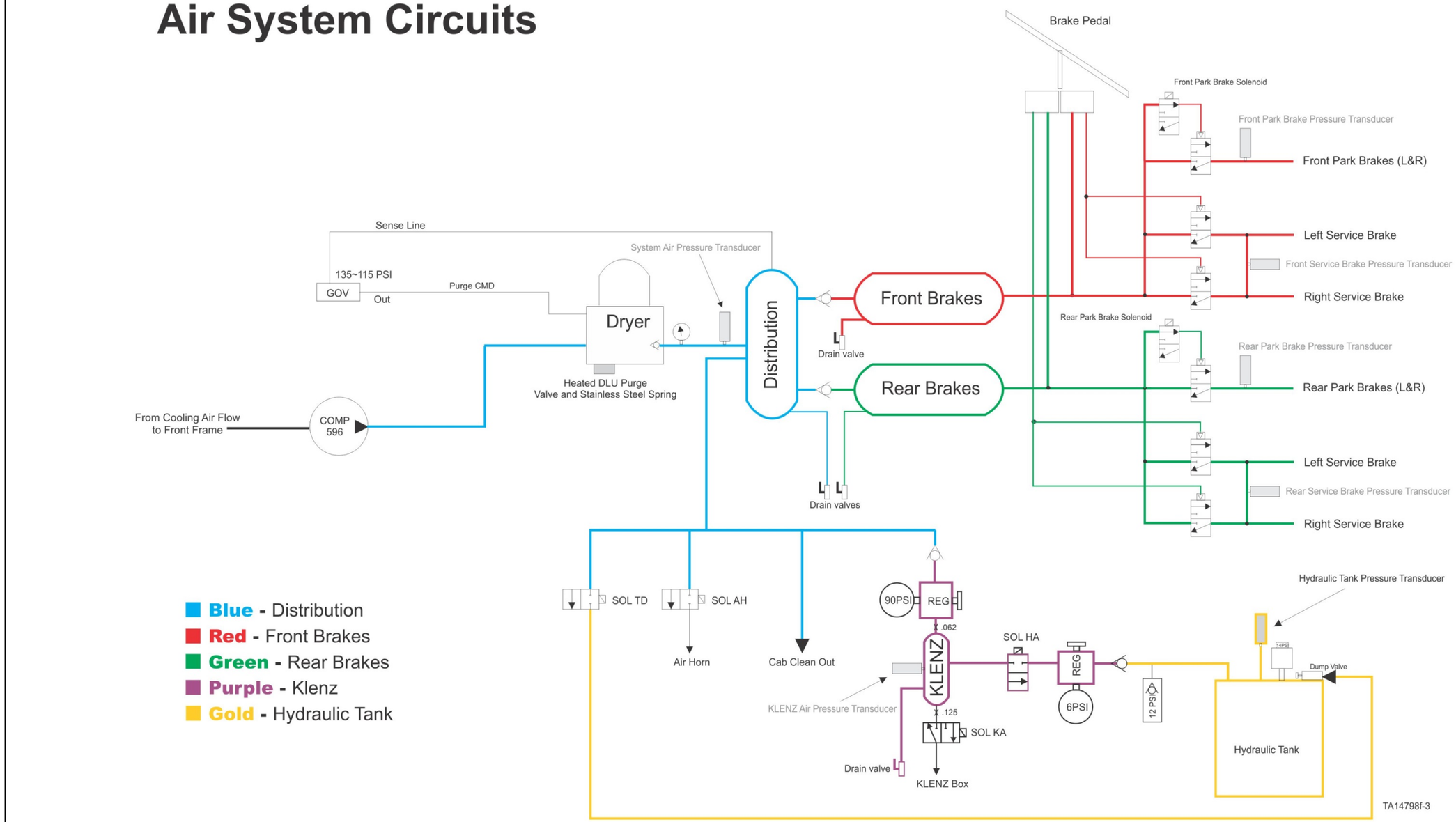

Figure 1. Simplified air system circuits

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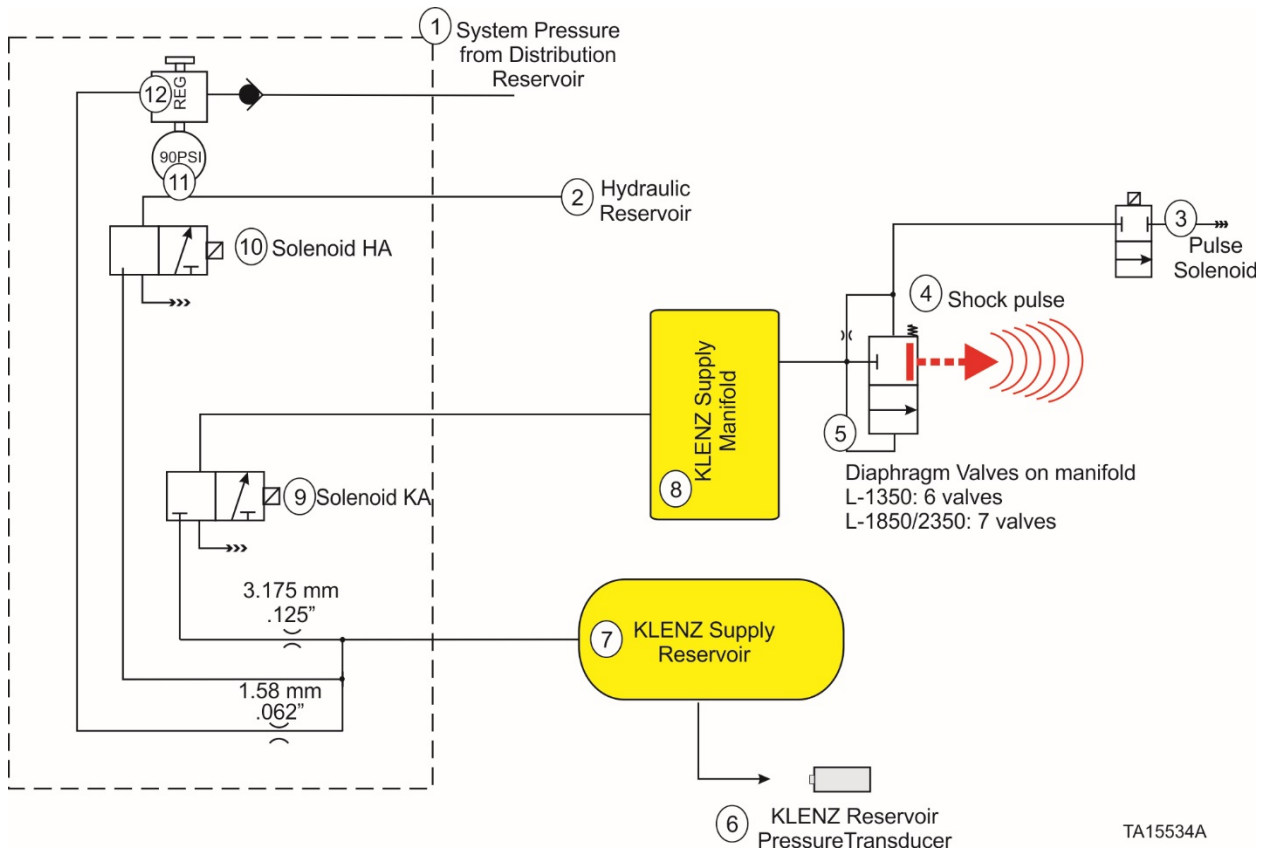

1. System pressure from distribution reservoir	**7.** KLENZ™ Supply reservoir
2. Hydraulic reservoir	**8.** KLENZ™ Supply manifold
3. Pulse solenoid	**9.** Solenoid KA
4. Shock pulse	**10.** Solenoid HA
5. Diaphragm valve (L-1350- 6 valves on manifold)	**11.** 90 psi
Diaphragm valve (L-1850- 7 valves on manifold)	**12.** REG
Diaphragm valve (L-2350- 7 valves on manifold)	
6. KLENZ™ Reservoir pressure transducer	

Figure 2. KLENZ™ pulse valve circuit

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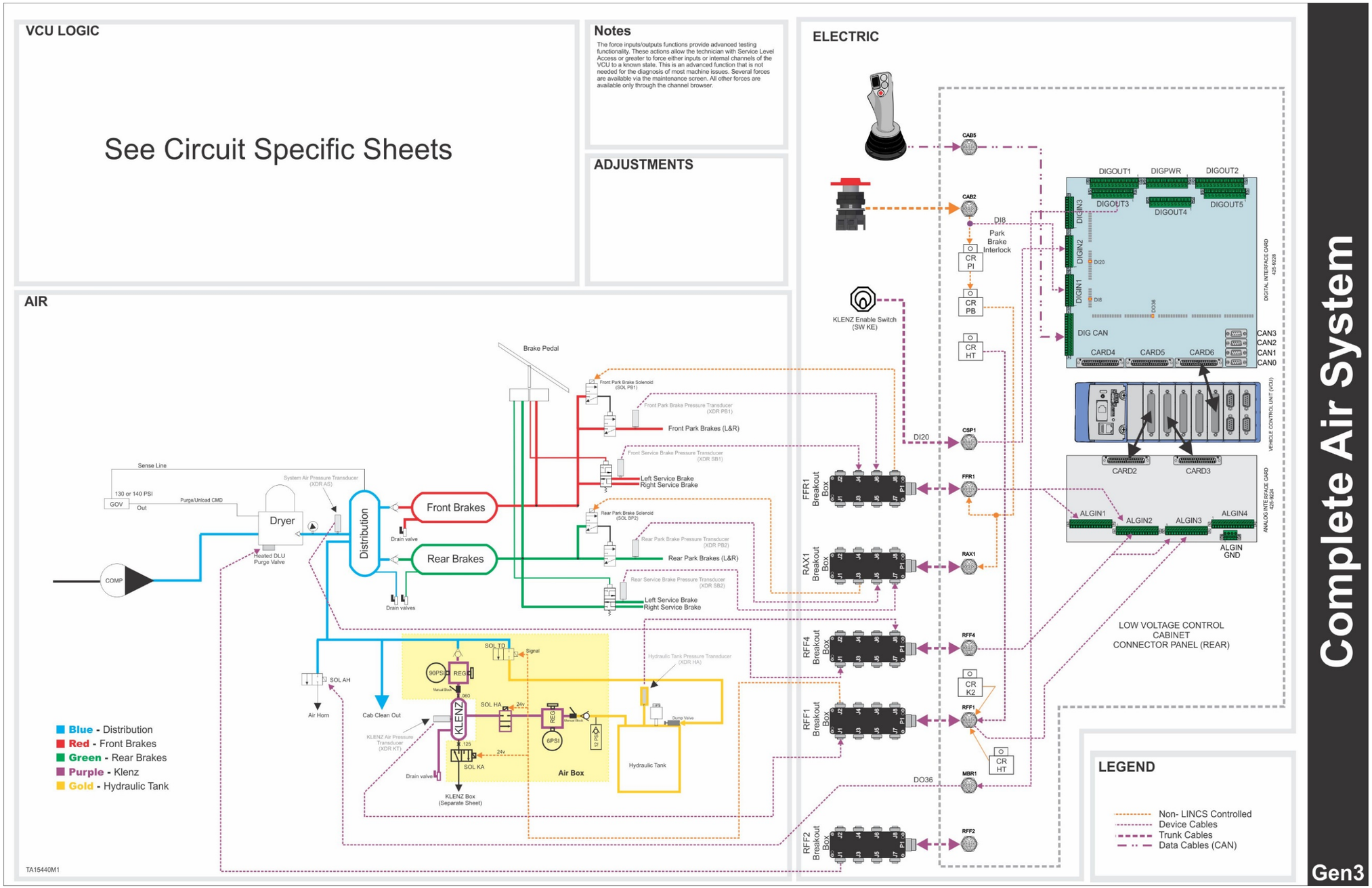

Figure 3. Complete air system – air systems

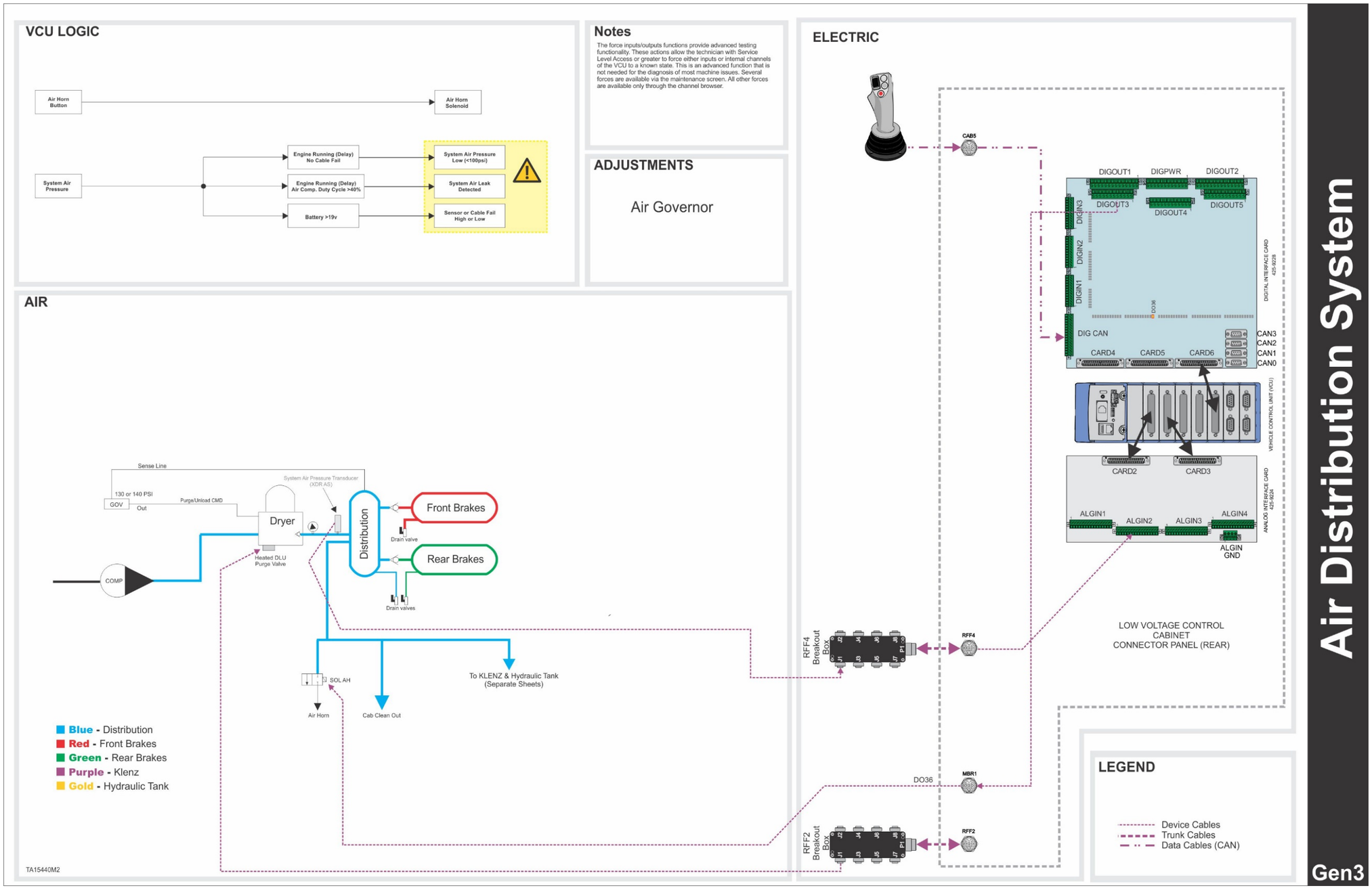

Figure 4. Air distribution system – air systems

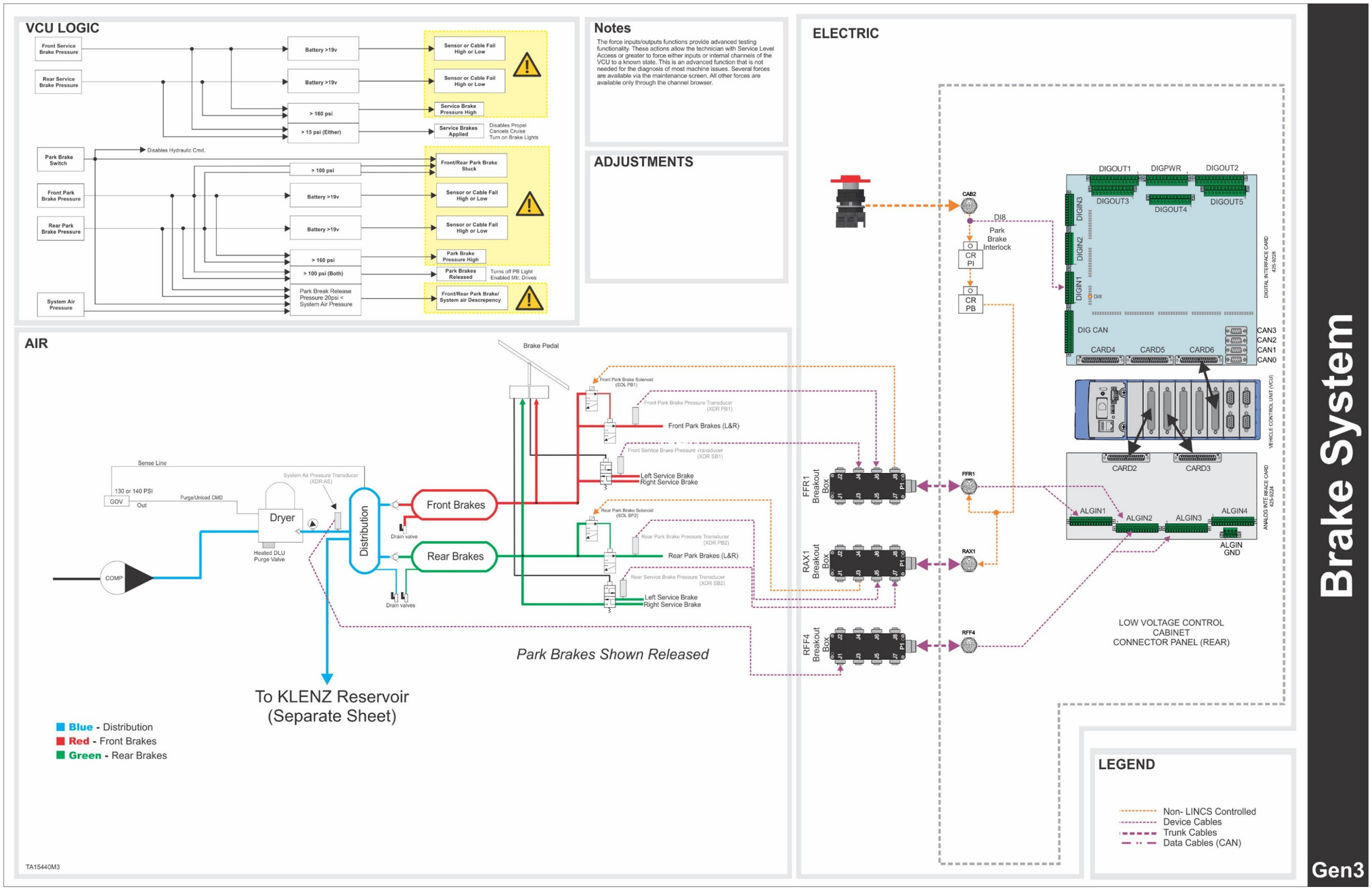

Figure 5. Brake system - air systems

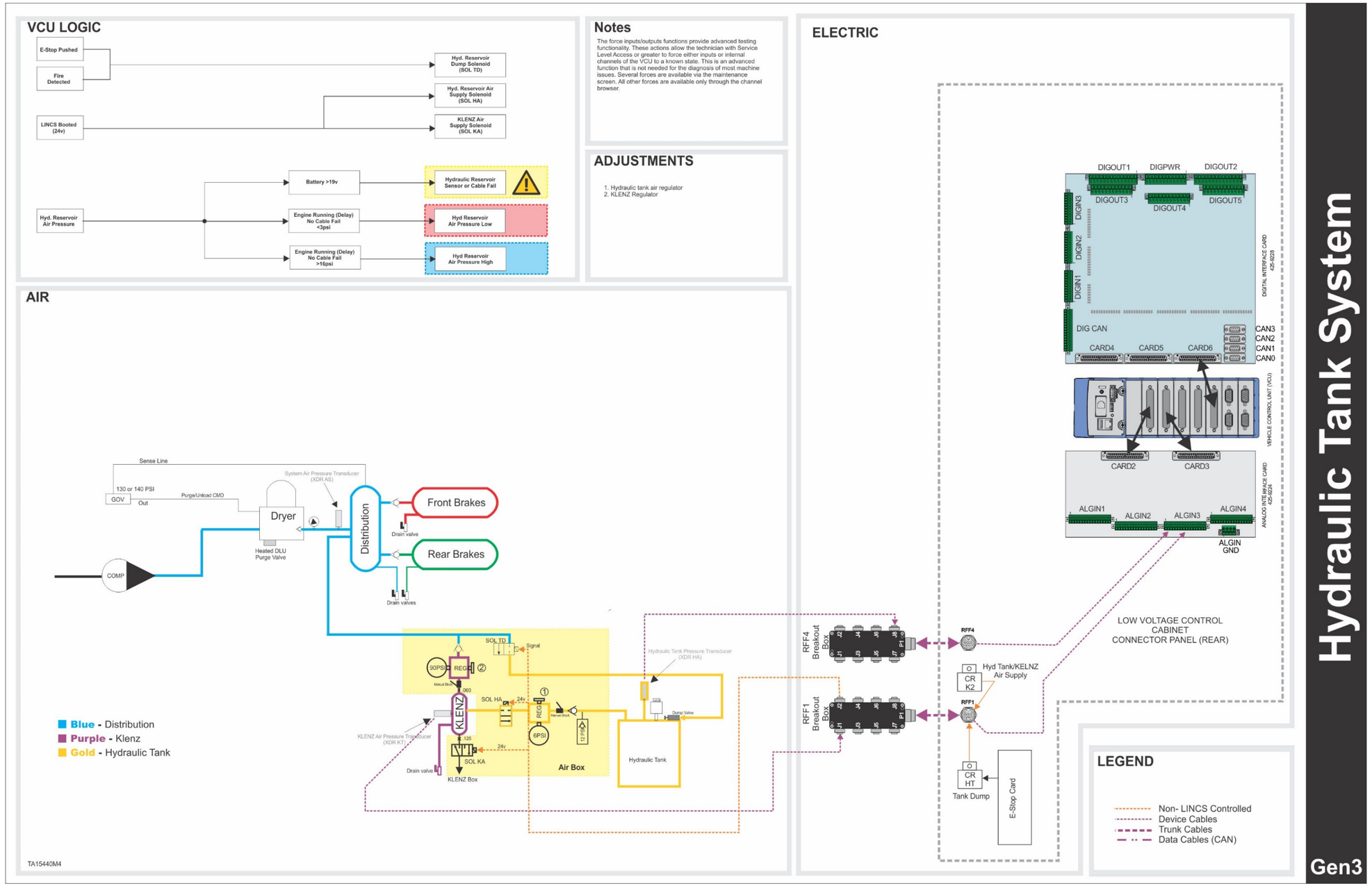

Figure 6. Hydraulic reservoir system – air systems

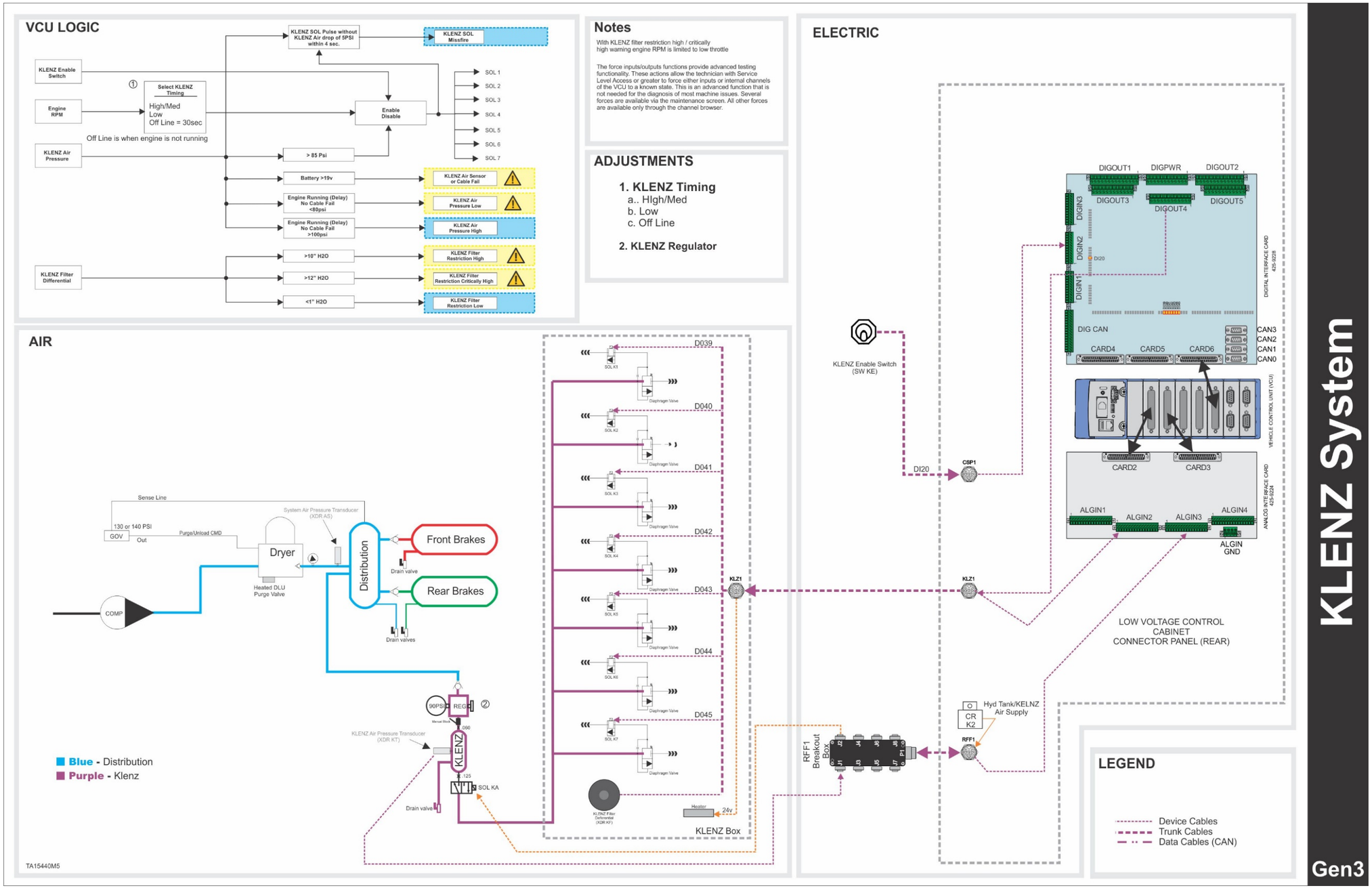

Figure 7. KLENZ™ system – air systems

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