

QTY	DESCRIPTION
1	PRESSURE PROTECTION VALVE
1	CONTROL PANEL ASSEMBLY
1	12V RELAY
1	LIFT CONTROLL MODULE
1	REGULATOR MOUNTING BRACKET
1	VALVE INSTRUCTIONS
	QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NCES S NOTED)	DESCRIPTION: AIR CONTR	ROL KIT			
^{//AL} 06	PREVIOUS ASSY:		SHEET: 1 OF	2	
onal / 16	SUSPENSION MODE	L: S	SCALE: 1:	1	WATSON & CHALIN MANUFACTURING INC. Watson Suspension Systems
_AR I °	DATE: 6/18/07	DRAWN BY:		SIZE: B	DRAWING NO: ACK250





ITEM #2	ITEM #5	ITEM #4
19535	19535B	19516-711
990099	N/A	19516-711
990099	N/A	19516-311

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ONAL	SUSPENSION MODEL:		SCALE:		WATSON & CHALIN
16	VARIES		1:1	2	Watson Suspension Systems
AR o	DATE: 6/18/07	drawn by: JFF		SIZE: B	$\overset{\text{drawing no:}}{ACK250}$

Lift Axle Control Module (LACM) Air Line Connections

A. Overview

The GT Lift Axle Control Module controls airflow to and from and the Lift and Load (Ride) bags of an auxiliary axle. There are three main valve types:



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C. Air Connections

All LACM versions have 4 main (plus an optional gauge port) air line connection locations.

1. MAIN SUPPLY

The Main Supply port is the connection to the Supply air reservoir (downstream of the pressure protection valve). GT recommends use of a 1/2" Supply line to ensure adequate airflow.

Connect the Main supply to the axle's air reservoir, downstream of the PPV.



2. PILOT PORT (Control port)

The Pilot port is the connection to the auxiliary axle regulated pilot. The pilot port is connected downstream of the auxiliary axle regulator. GT recommends use of a 1/4" Pilot line. <u>The Pilot is</u> **connected to the inlet per Section A above**. (Normally Closed Solenoid shown)

Connect the pilot port to the axle's Load Bag Regulator.



3. LOAD DELIVERY PORTS (2 per valve)

The Load delivery ports are the connection from the LACM to the Load (Ride) Bags. One port is connected to each Load bag. GT recommends use of 1/2" Load delivery lines to ensure adequate airflow.

Connect the Load Delivery ports to the axle's Load bags.

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4. LIFT DELIVERY PORTS (2 per valve)

The Lift delivery ports are the connection from the LACM to the Lift bags. One port is connected to each Lift bag. GT recommends use of 3/8" Lift delivery lines to ensure adequate airflow.

Connect the Lift delivery ports to the axle's Lift bags.



5. (OPTIONAL) GAUGE PORT

The optional Gauge port is common with the Load delivery ports. This port should be connected to the auxiliary axle's Load bag air pressure gauge.

Connect the Gauge port to the Load bag pressure gauge.



D. Electrical Connection

Solenoid equipped valves are either polarity sensitive or non-polarity sensitive. This characteristic can be confirmed by the colors of the wires:



E. Typical Installation

Solenoid LACM, w/o gauge port Pressure Protection Valve (PPV) not shown



F. Pressure Protection Valve Replacement



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