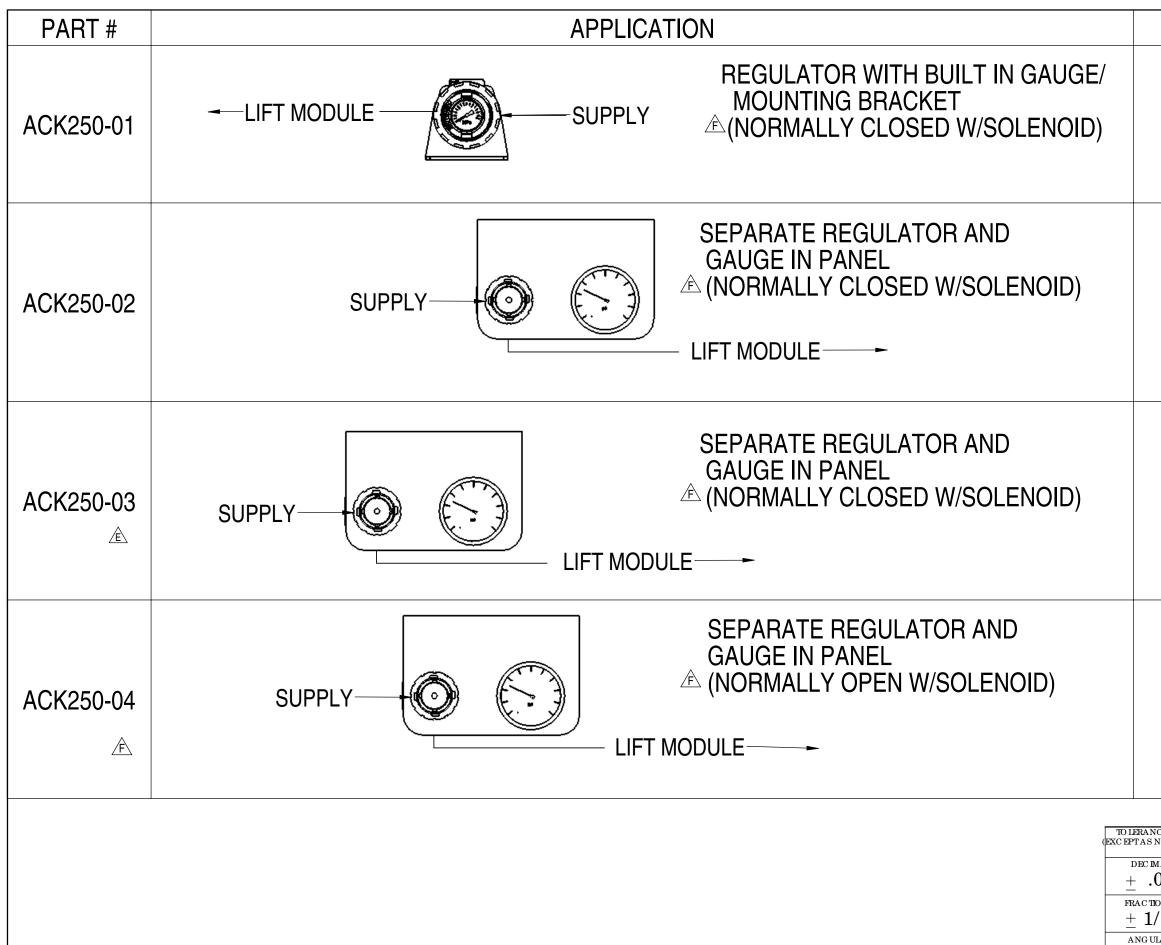


PART #	QTY	DESCRIPTION
19007-85	1	PRESSURE PROTECTION VALVE
CHART	1	CONTROL PANEL ASSEMBLY
17347	1	12V RELAY
CHART	1	LIFT CONTROLL MODULE
CHART	1	REGULATOR MOUNTING BRACKET
LIT19516	1	VALVE INSTRUCTIONS
	19007-85 CHART 17347 CHART CHART	19007-85 1 CHART 1 17347 1 CHART 1 CHART 1 CHART 1

ANCES AS NOTED)	DESCRIPTION: AIR CONTR	ROL KIT			
^{MAL} .06	PREVIOUS ASSY: ACK		SHEET: 1 OF 2		
ional 1/16	SUSPENSION MODEL:				WATSON & CHALIN MANUFACTURING Watson Suspension Systems
ILAR	DATE:	DRAWN BY:		SIZE:	DRAWING NO:
1 °	6/18/07	JFF		В	ACK250



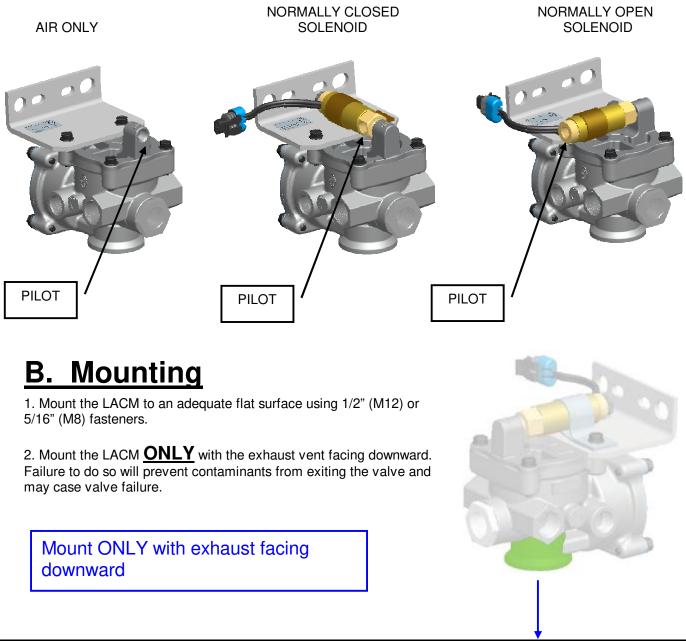
ITEM #2	ITEM #5	ITEM #4
19535	19535B	19516-711
990099	N/A	19516-711
990099	N/A	19516-311
990099	N/A	19516-211

ICES NOTED)	DESC RIPTION: AIR CONTROLKIT				
^{MAL}	PREVIO US ASSY: ACK		2 OF 2		
10 NAL	SUSPENSION MODEL VARES		scale: 1:1	2	WAISON & CHALIN MANUFACTURING INC. Watson Suspension Systems
lar 0	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:



REV	CHANGE: DCR 2304	DATE: 7/17/07	TITLE: APPLICATION INSTRUCTION,SheetLACM AIR LINE ASSY1 of 1
4X	ORIGINATOR: K. CURTIN	DATE: 7/17/07	GT DEVELOPMENT CORPORATION

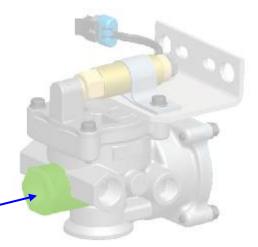
C. Air Connections

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.

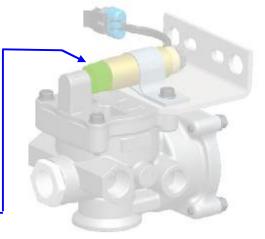
Connect the Main supply to the axle's air reservoir, downstream of the PPV.



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.

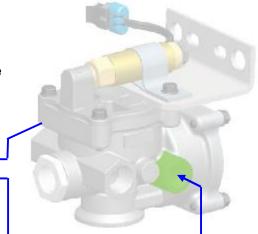
Connect the Load Delivery ports to the axle's Load bags.

REV	CHANGE:	DATE:	TITLE: APPLICATION INSTRUCTION, Sheet
	DCR 2304	7/17/07	LACM AIR LINE ASSY 1 of 1
4X	ORIGINATOR:	DATE:	GT DEVELOPMENT CORPORATION
	K. CURTIN	7/17/07	B A Company

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.

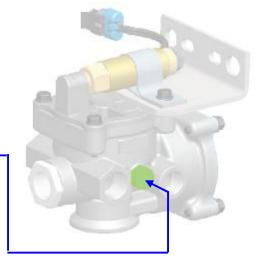
Connect the Lift delivery ports to the axle's Lift bags.



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:

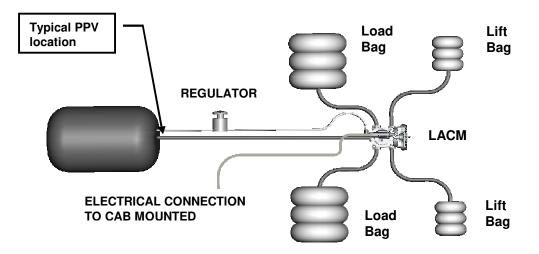


1. Polarity sensitive:

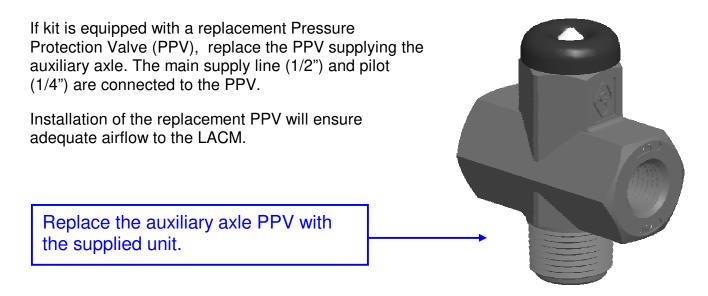
2. Non-Polarity sensitive:

E. Typical Installation

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



F. Pressure Protection Valve Replacement



REV	CHANGE: DCR 2304	DATE: 7/17/07	TITLE: APPLICATION INSTRUCTION,SheetLACM AIR LINE ASSY1 of 1
4X	ORIGINATOR: K. CURTIN	DATE: 7/17/07	GT DEVELOPMENT CORPORATION