

ROI Cabmate®
Cab Suspension

LINK®

Link Mfg. Ltd.
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www.linkmfg.com

**QUESTIONS?
CALL CUSTOMER
SERVICE
1-800-222-6283**

OWNER'S GUIDE

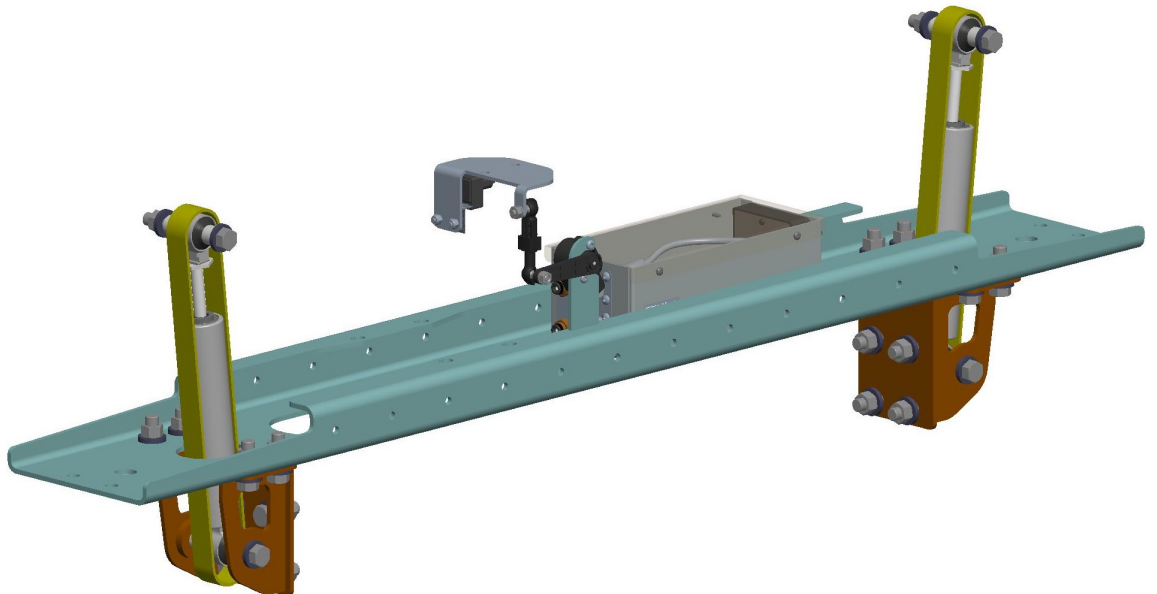
Cab Suspension

VOLVO

VNL - VNR SERIES

MODEL YEAR 2017 & NEWER

LINK PART NO.
26302040



1. PLUMBING INSTRUCTIONS

⚠️WARNING FOR SAFETY PURPOSES THE ROI CABMATE MUST BE SUPPLIED FROM A PRESSURE PROTECTED CIRCUIT. IN THE EVENT OF AN AIR LEAK IN THE CAB SUSPENSION, FAILURE TO PROVIDE A PRESSURE PROTECTED CIRCUIT MAY CAUSE LOSS OF AIR PRESSURE TO VITAL SYSTEMS ON THE VEHICLE.

⚠️WARNING CONNECT THE ROI CABMATE DIRECTLY TO THE MAIN AIR TANK. YOU WILL NEED AN AIR PRESSURE PROTECTION VALVE IN THE LINE. (INCLUDED IN THE PRESSURE PROTECTION KIT. LINK MFG. PART NO. 13500000). DO NOT USE AN AIR PRESSURE REGULATOR!

HEIGHT ADJUSTMENTS

Refer to installation instructions.

MAINTENANCE

The ROI CABMATE needs no lubrication and little maintenance. The following components should be checked at the time the truck is being serviced. However, immediate corrective action should be taken if a serious malfunction occurs.

COMPONENT	POSSIBLE PROBLEM	CORRECTIVE ACTION
Airlines	Air leaks	Replace airline
Fittings	Air leaks	Replace fittings.
Air Springs	A. Improper height B. Air leakage C. Air springs not filling	A. Adjust valve linkage to maintain proper air spring height. B. Replace air spring. C. See "Electronic Troubleshooting" Section.
Control Box	Air spring(s) will not inflate when weight is added to the cab; OR Air spring(s) will not deflate when weight is removed from the cab.	See "Electronic Troubleshooting" Section.
Shock Absorber	Improper damping effect	A. Inspect LED for fault codes. If present, repair per "Electronic Troubleshooting" section. B. If no faults are present, replace shocks.

⚠️WARNING LOSS OF AIR PRESSURE TO THE ROI CABMATE WILL CAUSE SUDDEN MOVEMENT OF THE CAB. PRIOR TO INSTALLING OR PERFORMING MAINTENANCE, BLOCK UP THE CABMATE TO PREVENT THE POSSIBILITY OF INJURY.

Prior to removing the control box for servicing, perform the following:

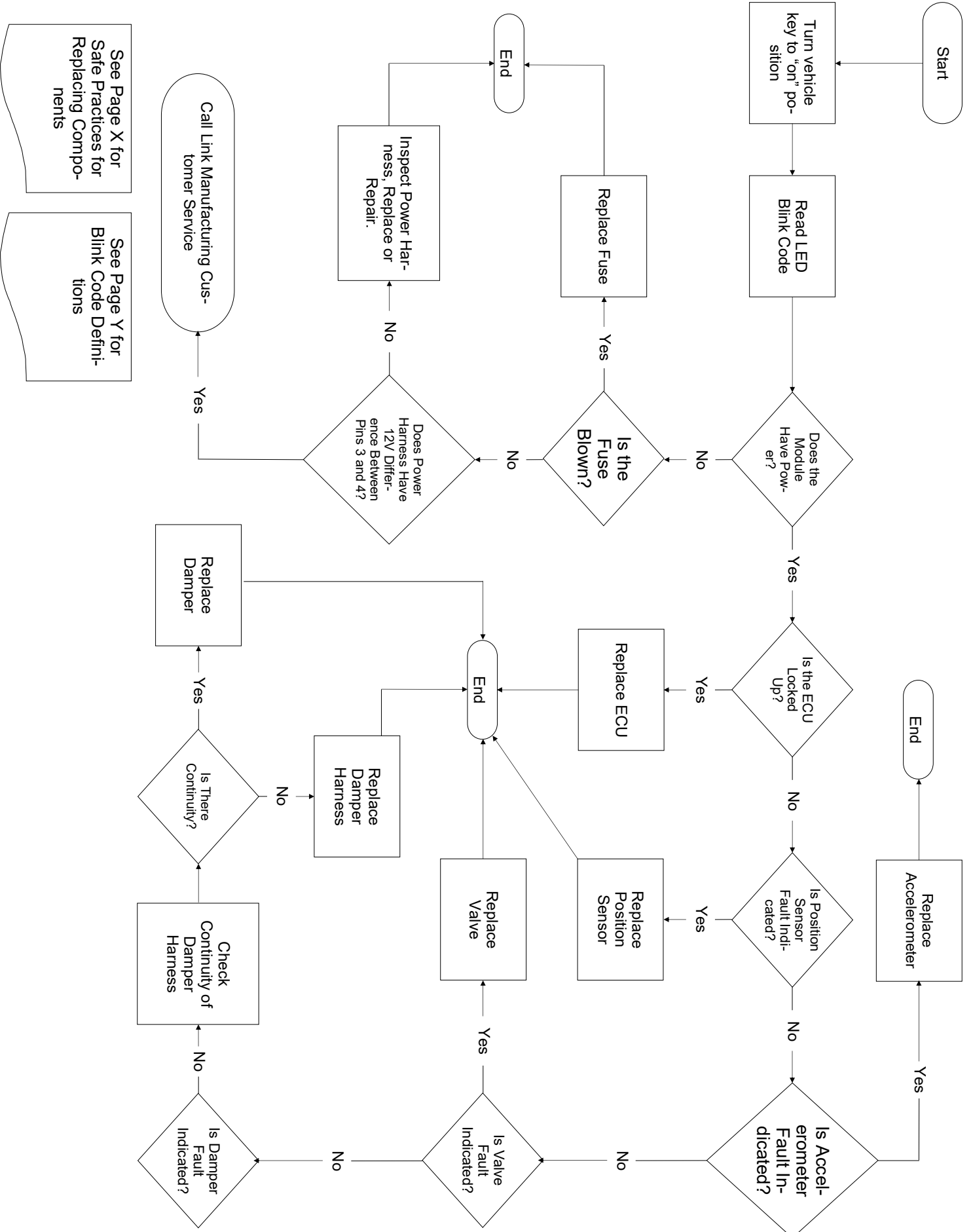
1. Unplug the power harness
2. Unplug the shock harness
3. Unplug the airlines from the control box
4. Disconnect the position sensor

2. TORQUE INSTRUCTIONS

IMPORTANT: Periodically check the tightness of all fasteners.

TORQUE TABLE		
COMPONENT	FASTENER	TORQUE
POSITION SENSOR	M5	26-44 IN-LBS
CONTROL BOX	1/4	48-60 IN-LBS
SHOCKS	1/2	60-70 FT-LBS

4. FAULT TROUBLESHOOTING FLOW CHART

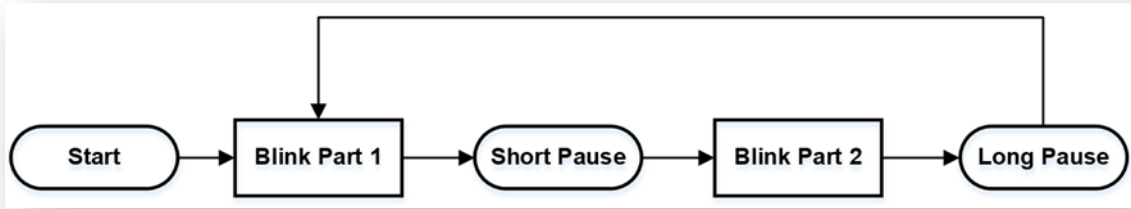


See Page X for Safe Practices for Replacing Components

See Page Y for Blink Code Definitions

Call Link Manufacturing Customer Service

5. BLINK CODE FLOW CHART AND TABLE

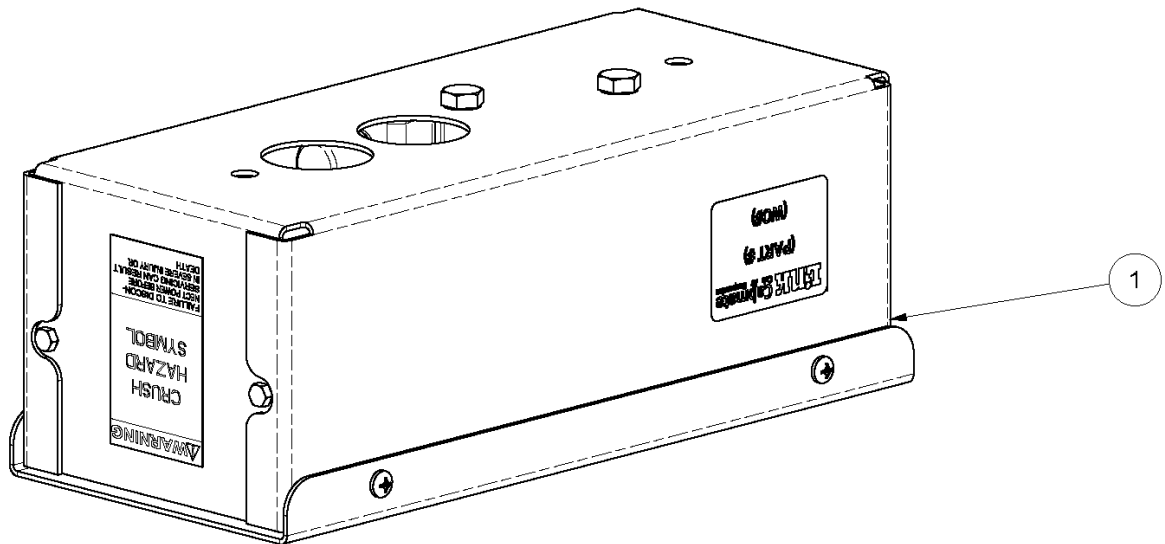


Blink Code		Fault Definition	
Blink Part 1	Blink Part 2	Component	Description
1	2	Position Sensor	Low Voltage
1	3	Position Sensor	High Voltage
5	1	Fill Valve	Open Circuit
5	2	Fill Valve	Short to Ground
5	3	Fill Valve	Short to Battery
5	4	Fill Valve	Over Current
6	1	Exhaust Valve	Open Circuit
6	2	Exhaust Valve	Short to Ground
6	3	Exhaust Valve	Short to Battery
6	4	Exhaust Valve	Over Current
2	3	Accelerometer	Low Voltage
2	4	Accelerometer	High Voltage
3	1	PS Damper	Open Circuit
3	2	PS Damper	Short to Ground
3	4	PS Damper	Short to Battery
3	5	PS Damper	Over Current
4	1	DS Damper	Open Circuit
4	2	DS Damper	Short to Ground
4	3	DS Damper	Short to Battery
4	5	DS Damper	Over Current
LED on, no blinking		ECU	Unknown Failure
Steady, slow blinking		No faults detected	

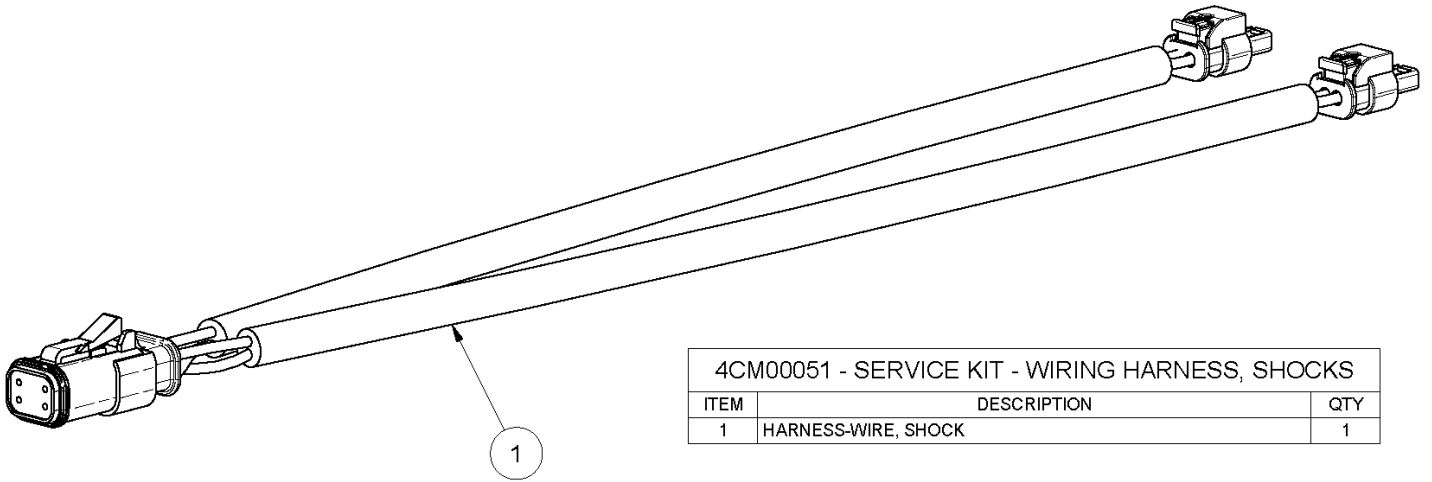
6. **WARRANTY** - Refer to www.ROIcabmate.com for warranty information and registration.

7. SERVICE KITS

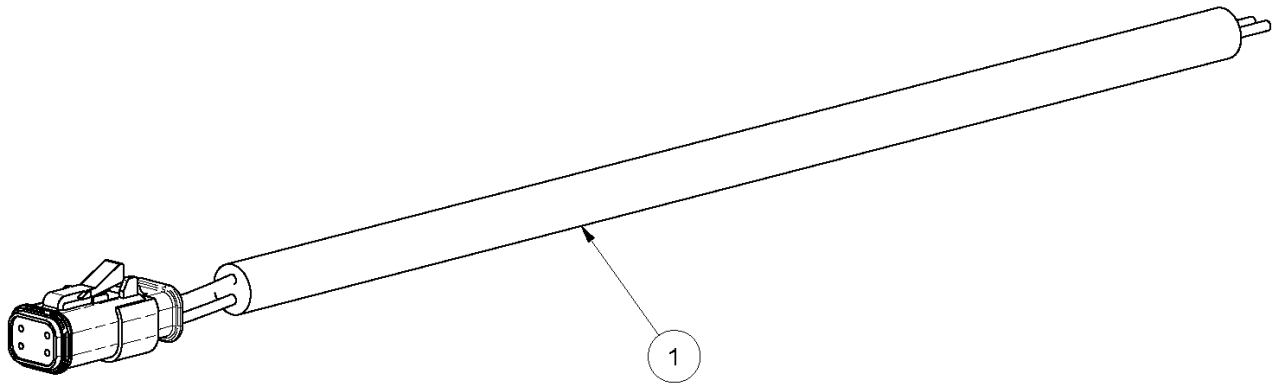
ROI CABMATE - VOLVO VNL & VNR SERIES	
ITEM NUMBER	DESCRIPTION
4CM00050	SERVICE KIT - ROI CONTROL MODULE
4CM00051	SERVICE KIT - WIRING HARNESS, SHOCKS
4CM00052	SERVICE KIT - WIRING HARNESS, POWER
4CM00053	SERVICE KIT - WIRING HARNESS
4CM00054	SERVICE KIT - WIRING HARNESS AND FASTENERS, CONTROL MODULE
4CM00055	SERVICE KIT - AIRLINES WITH VALVES AND FITTINGS
4CM00056	SERVICE KIT - POSITION SENSOR, PIVOT BALL AND FASTENERS
4CM00057	SERVICE KIT -ACCELEROMETER WITH FASTENERS
4CM00062	SERVICE KIT - ECU
4CM00066	SERVICE KIT - SHOCK ABSORBER ASSEMBLY
4CM00076	SERVICE KIT - FRAME MOUNT BRACKET ASSEMBLY
4CM00077	SERVICE KIT - LCR AND AIRSPRING CROSSMEMBER CHANNEL
4CM00078	SERVICE KIT - ACCELEROMETER MOUNT BRACKET
4CM00079	SERVICE KIT - ACCELEROMETER AND LINKAGE ASSEMBLY
4CM00080	SERVICE KIT - LINKAGE



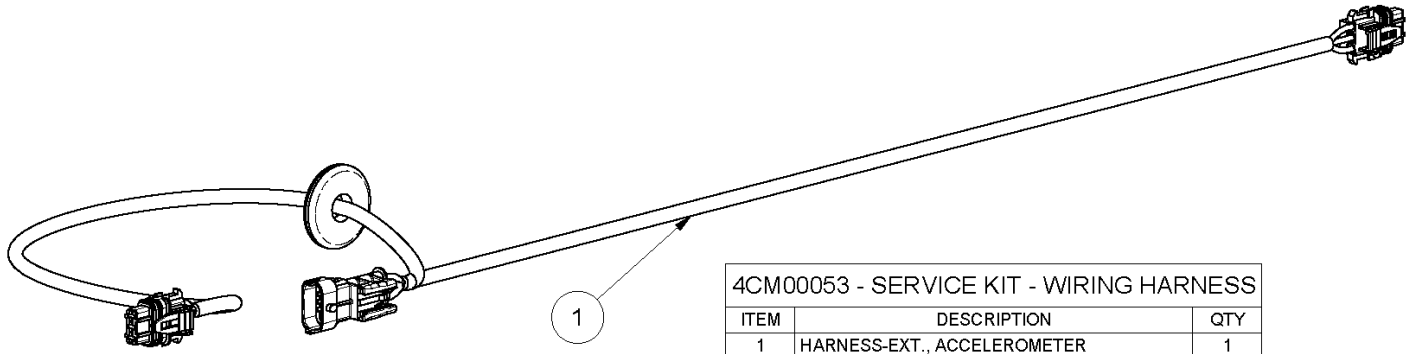
4CM00050 - SERVICE KIT - ROI CONTROL MODULE		
ITEM	DESCRIPTION	QTY
1	ECU BOX ASSEMBLY	1



4CM00051 - SERVICE KIT - WIRING HARNESS, SHOCKS		
ITEM	DESCRIPTION	QTY
1	HARNESS-WIRE, SHOCK	1

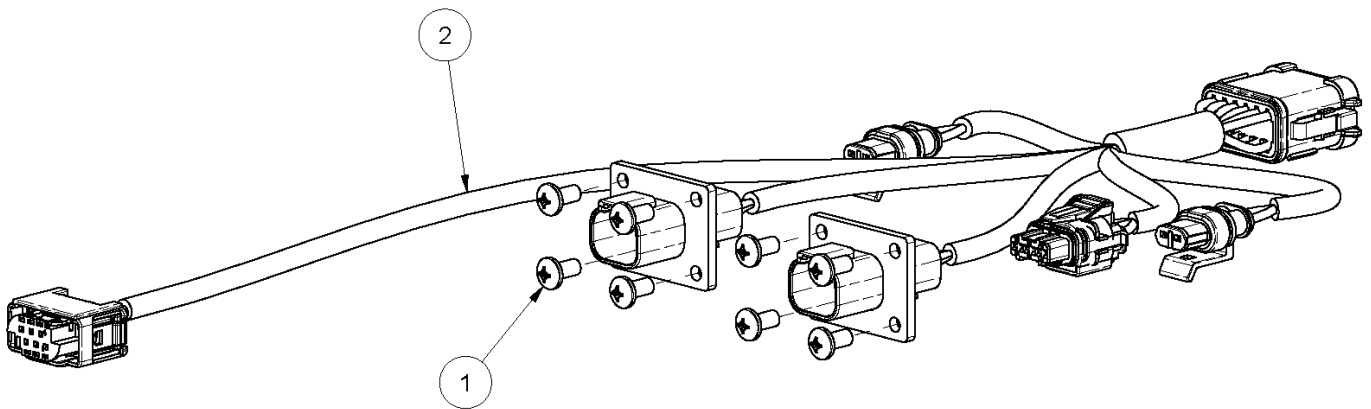


4CM00052 - SERVICE KIT - WIRING HARNESS, POWER		
ITEM	DESCRIPTION	QTY
1	HARNESS-WIRE, POWER	1



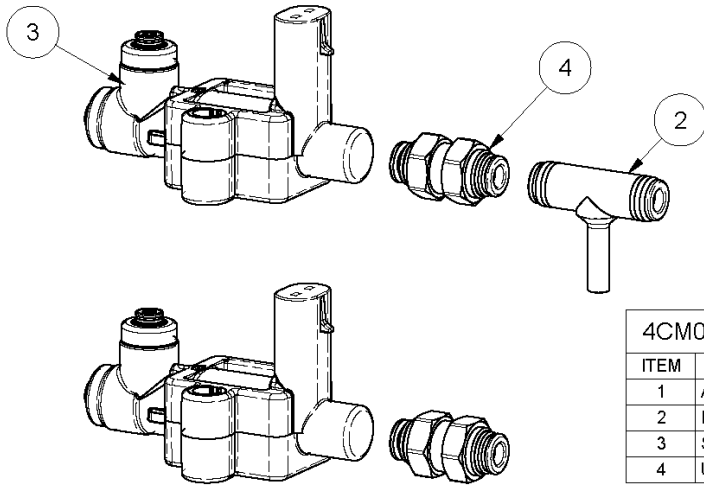
4CM00053 - SERVICE KIT - WIRING HARNESS

ITEM	DESCRIPTION	QTY
1	HARNESS-EXT., ACCELEROMETER	1



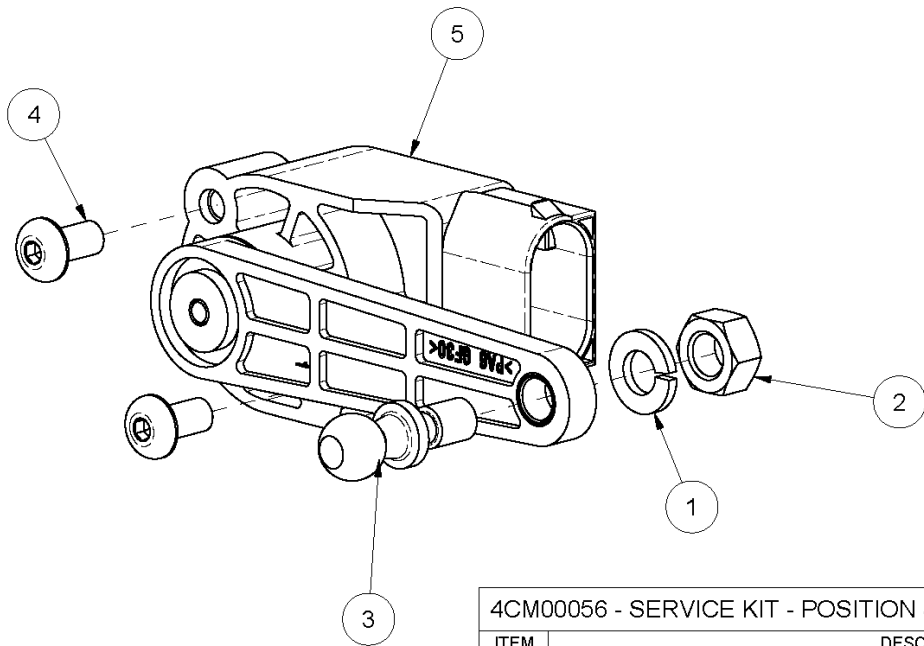
4CM00054 - SERVICE KIT - WIRING HARNESS AND FASTENERS, CONTROL MODULE

ITEM	DESCRIPTION	QTY
1	#10 X 3/8 THREAD CUTTING SCREW	8
2	HARNESS-WIRE, CONTROL BOX	1



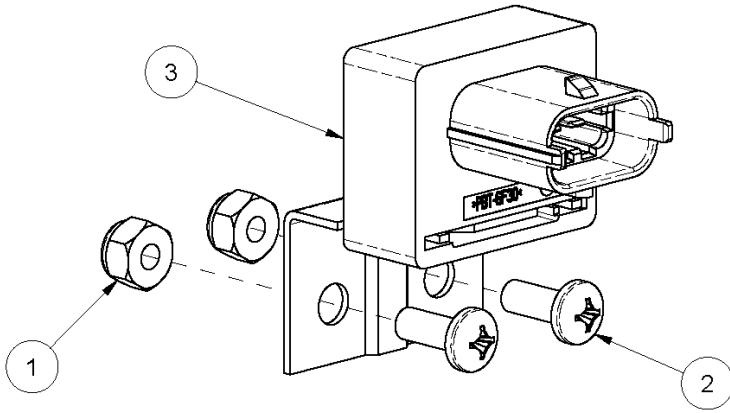
4CM00055 - SERVICE KIT - AIRLINES WITH VALVES AND FITTINGS

ITEM	DESCRIPTION	QTY
1	AIRLINE-NYLON, .250 O.D., BULK (FEET)	2
2	BRANCH TEE-PLUG-IN, 1/4"	1
3	SOLENOID-VALVE	2
4	UNION-BULKHEAD, 1/4" TB	2

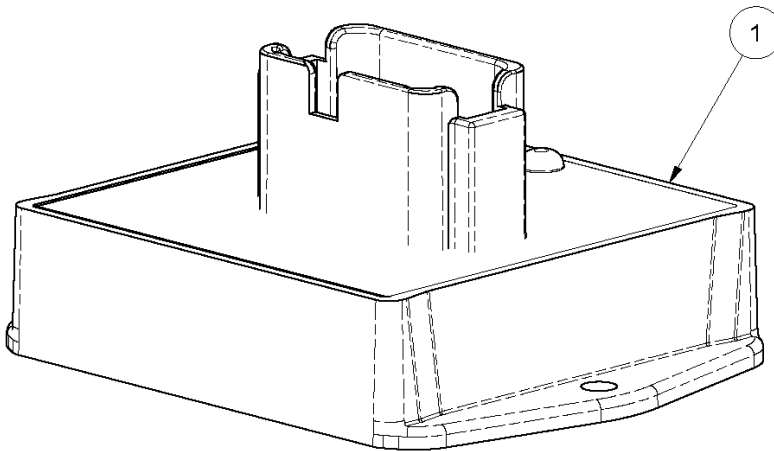


4CM00056 - SERVICE KIT - POSITION SENSOR, PIVOT BALL AND FASTENERS

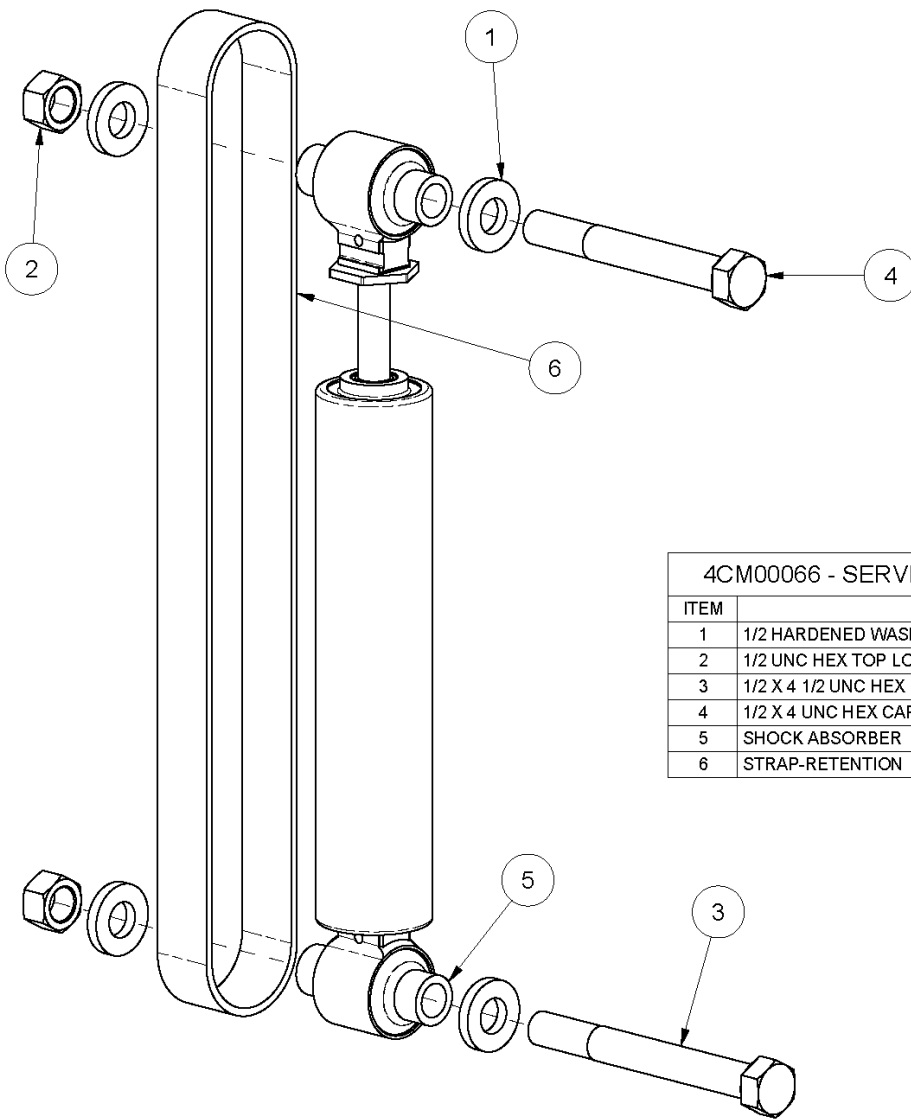
ITEM	DESCRIPTION	QTY
1	1/4 LOCK WASHER	1
2	1/4 UNC HEX NUT (GR B)	1
3	BALL-PIVOT, THREADED	1
4	M5X0.8X10 SOCKET BUTTON HD SS CAP SCREW	2
5	SENSOR-POSITION	1



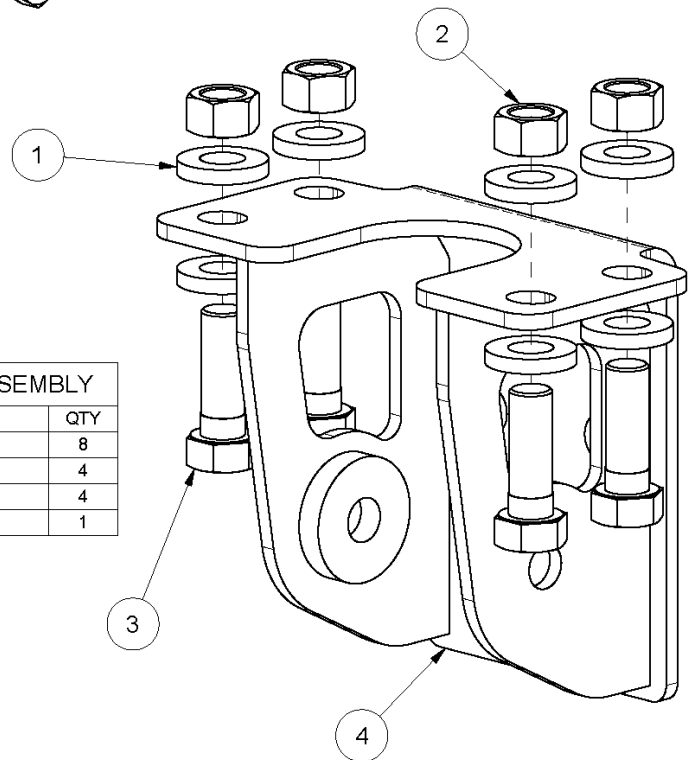
4CM00057 - SERVICE KIT -ACCELEROMETER WITH FASTENERS		
ITEM	DESCRIPTION	QTY
1	10-24 NYLOCK NUT, SS	2
2	10-24 x 1/2 UNC CR PH MACH SCREW, SS	2
3	ZF ACCELEROMETER ASSEMBLY	1



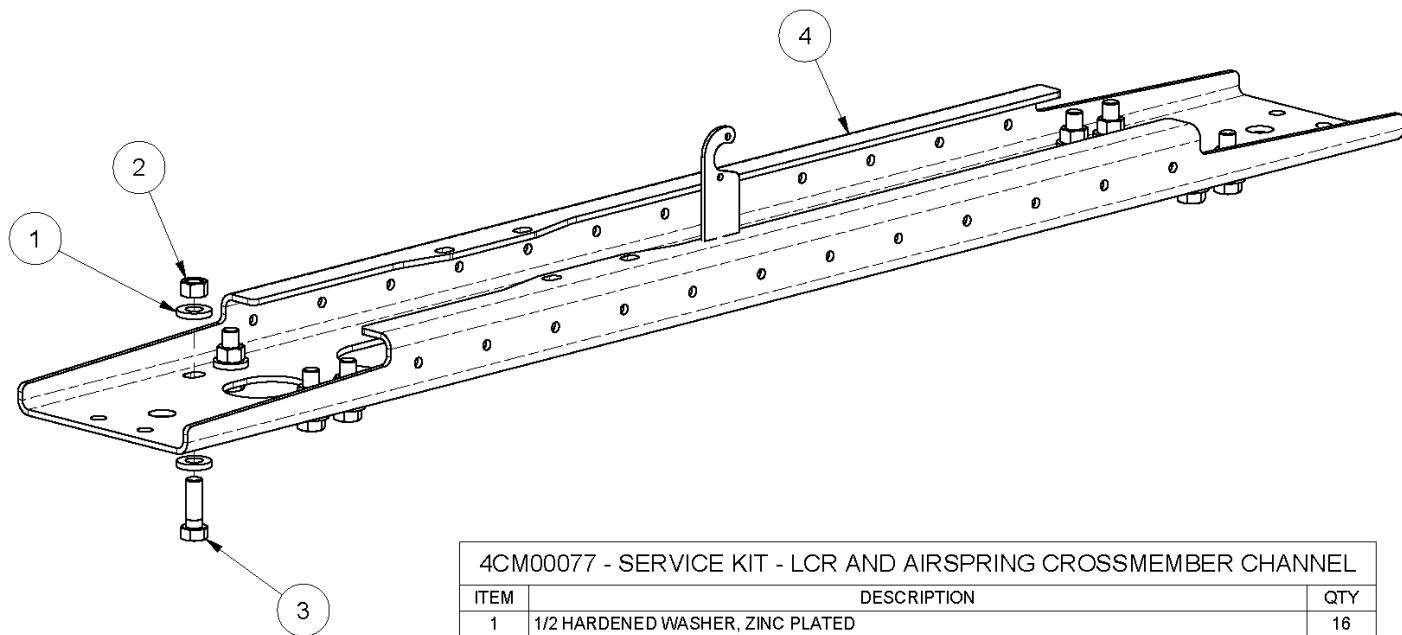
4CM00062 - SERVICE KIT - ECU		
ITEM	DESCRIPTION	QTY
1	CL449 CONTROLLER	1



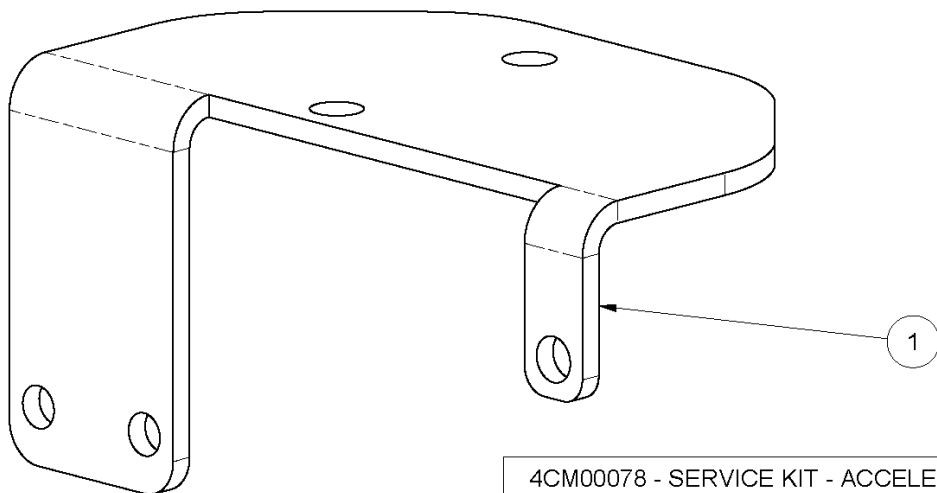
4CM00066 - SERVICE KIT - SHOCK ABSORBER ASSEMBLY		
ITEM	DESCRIPTION	QTY
1	1/2 HARDENED WASHER, ZINC PLATED	4
2	1/2 UNC HEX TOP LOCK NUT (GR C)	2
3	1/2 X 4 1/2 UNC HEX CAP SCR (GR 5)	1
4	1/2 X 4 UNC HEX CAP SCR (GR 5)	1
5	SHOCK ABSORBER	1
6	STRAP-RETENTION	1



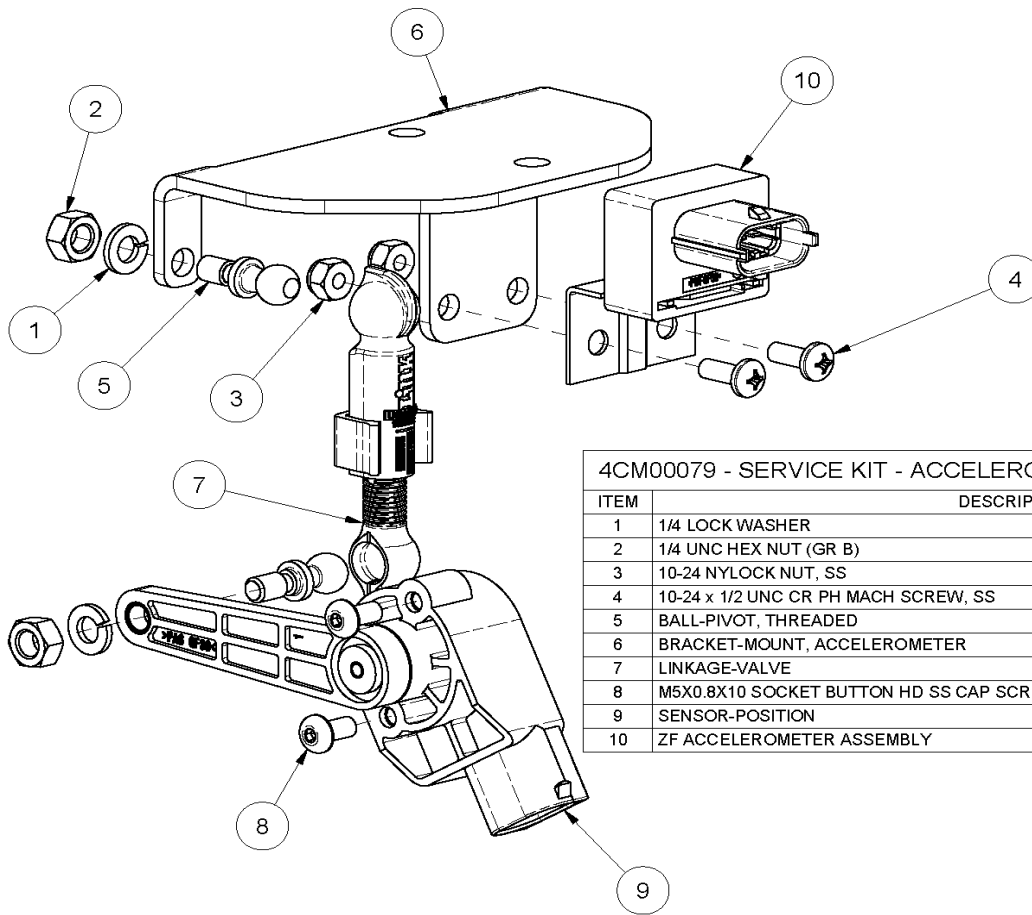
4CM00076 - SERVICE KIT - FRAME MOUNT BRACKET ASSEMBLY		
ITEM	DESCRIPTION	QTY
1	1/2 HARDENED WASHER, ZINC PLATED	8
2	1/2 UNC HEX TOP LOCK NUT (GR C)	4
3	1/2 X 1 1/2 UNC HEX CAP SCR (GR 5)	4
4	BRACKET-MOUNT, FRAME	1



4CM00077 - SERVICE KIT - LCR AND AIRSPRING CROSSMEMBER CHANNEL		
ITEM	DESCRIPTION	QTY
1	1/2 HARDENED WASHER, ZINC PLATED	16
2	1/2 UNC HEX TOP LOCK NUT (GR C)	8
3	1/2 X 1 1/2 UNC HEX CAP SCR (GR 5)	8
4	CHANNEL-CROSSMEMBER, LCR-AIRSPRING	1



4CM00078 - SERVICE KIT - ACCELEROMETER MOUNT BRACKET		
ITEM	DESCRIPTION	QTY
1	BRACKET-MOUNT, ACCELEROMETER	1

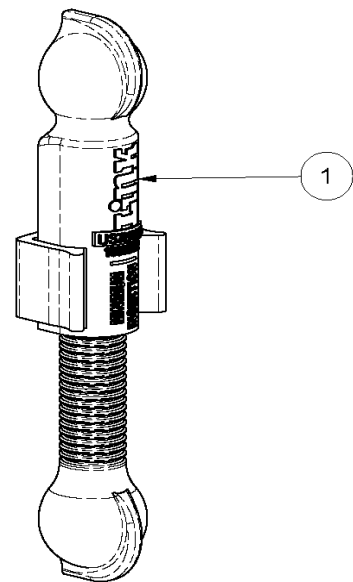


4CM00079 - SERVICE KIT - ACCELEROMETER AND LINKAGE ASSEMBLY

ITEM	DESCRIPTION	QTY
1	1/4 LOCK WASHER	2
2	1/4 UNC HEX NUT (GR B)	2
3	10-24 NYLOCK NUT, SS	2
4	10-24 x 1/2 UNC CR PH MACH SCREW, SS	2
5	BALL-PIVOT, THREADED	2
6	BRACKET-MOUNT, ACCELEROMETER	1
7	LINKAGE-VALVE	1
8	M5X0.8X10 SOCKET BUTTON HD SS CAP SCREW	2
9	SENSOR-POSITION	1
10	ZF ACCELEROMETER ASSEMBLY	1

4CM00080 - SERVICE KIT - LINKAGE

ITEM	DESCRIPTION	QTY
1	LINKAGE-VALVE	1



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