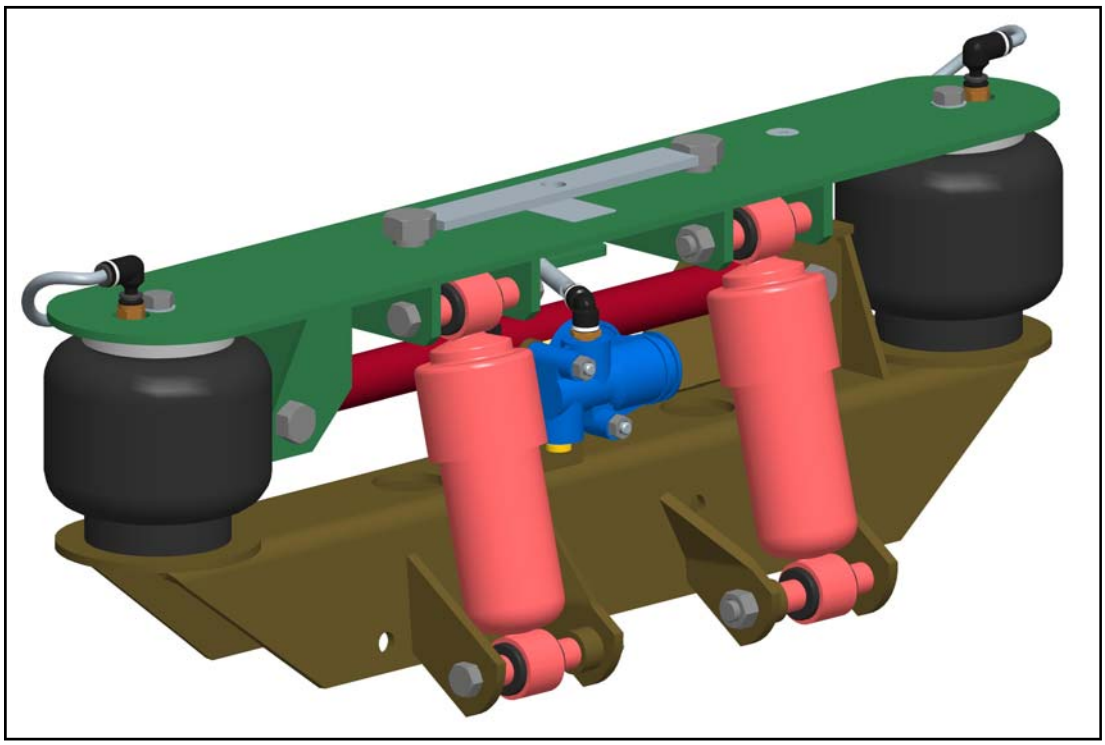
INSTALLATION INSTRUCTIONS

Link® Cabmate®
Cab Air Suspension

FRTE120-A (AFTM) (2251A000)



The **CABMATE MODEL FRTE120-A** fits most 1989 and newer Freightliner FLC112, FLC120 and FLD120 Series Conventional Tractors. It replaces the original rear cab supports; Freightliner Part Nos. A18-24201-000-B and A18-29680-000.

UNIT WEIGHT: 33.8 LB.

NET WEIGHT ADDED: 13.4 LB.

Link mfg. Ltd.
223 15th St. N.E.
Sioux Center, IA USA
51250-2120

(712) 722-4874
Fax (712) 722-4876

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

100712
32510001

CABMATE® MODEL FRTE120-A

Review the Parts List on page 3 to become familiar with the different components of the CABMATE.

IMPORTANT: Due to many chassis variables caused by installation of special equipment of options, the fit of the CABMATE FRTE120-A may be affected and should be evaluated before beginning installation.

IMPORTANT: Installation of the CABMATE system will allow the cab to move freely. Before starting installation, check clearances between tthe cab and any objects the cab may contact when it moves (1 1/2 inches of clearance should be sufficient). The clearance of components that are affected by cab movement, such as exhaust and radiator systems, must also be evaluated.

A. Remove the two rear cab mount bolts from the top of the original cab support. Securely prop up the cab and remove the rear cab support . **NOTE:** Save the four 1/4" thick washers and the eight 3/8" mount bolts (Fig. 1).

B. Remove unit from box. Install elbow fittings that are shipped loose (Item No. 5). Insert airline loose airlines into elbow fittings.

C. Slide the CABMATE onto the crossmember. Using the eight 3/8" mount bolts, fasten the Unit Bottom to the crossmember. (Fig. 2)

D. Slowly lower the cab until it touches the top of the CABMATE. Fasten the Unit Top to the cab frame using two of the 1/4" thick washers and the 5/8" mount hardware supplied by Link Mfg. (Item Nos. 20, 25 and 30 from parts list). **SECURELY TIGHTEN ALL FASTENERS.** Lower the cab completely.

E. See page 2 for plumbing instructions and height adjustments.

F. IMPORTANT: After plumbing and height control adjustments are completed, temporarily adjust the CABMATE to its maximum upward position. There must be a minimum of 1/4" gap between the cab and the hood. Adjust the hood hinge forward as necessary (Fig. 3).

FIG. 1

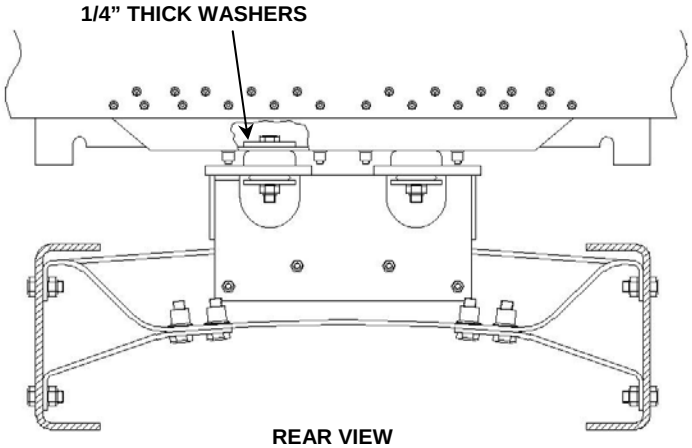


FIG. 2

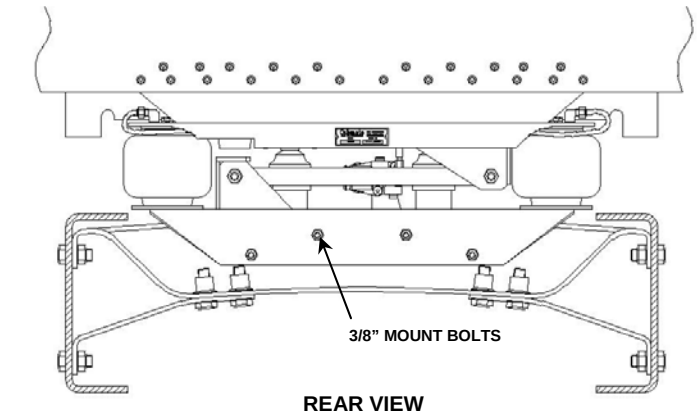
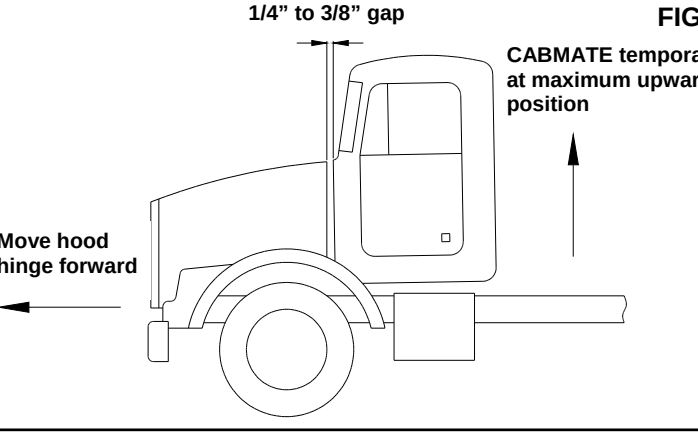
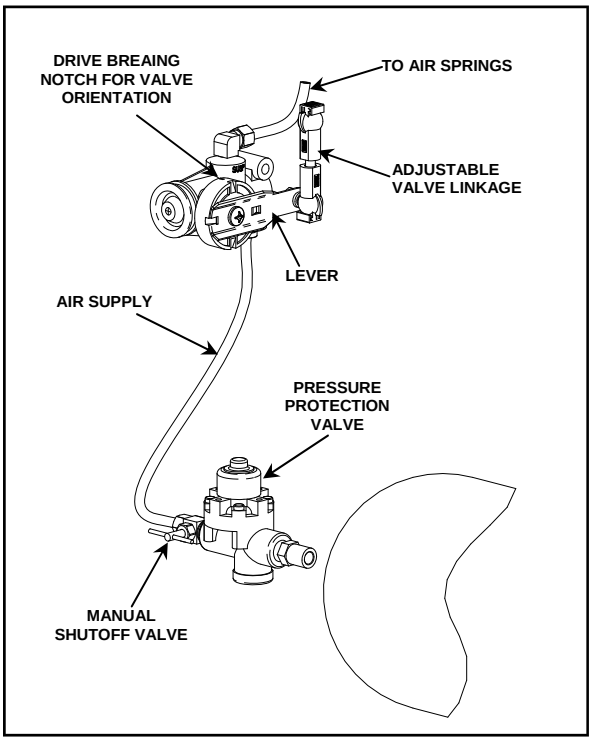


FIG. 3



PLUMBING INSTRUCTIONS

WARNING: FOR SAFTY PURPOSES THE 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: LOSS OR APPLICATION OF AIR PRESSURE TO CABMATE WILL CAUSE SUDDEN MOVEMENT OF THE CAB. PRIOR TO INSTALLING OR PERFORMING MAINTENANCE, BLOCK UP THE CABMATE TO PREVENT THE POSSIBILITY OF INJURY.

WARNING: CONNECT THE CABMATE DIRECTLY TO THE MAIN AIR TANK. YOU WILL NEED AN AIR PRESSURE PROTECTION VALVE IN THE LINE. (INCLUDED IN THE PRESSUREPROTECTION KIT. LINK MFG. PART NO. 1350-0000). DO NOT USE AN AIR PRESSURE REGULATOR!

A. With the tank at 0 p.s.i., remove the existing plug or fitting from the desired port.

B. Apply joint compound to the fittings and install the pressure protection kit. DO NOT USE TEFLON TAPE. Be sure that the arrows on the valve are pointing in the direction of air flow and the vent hole is pointed down. NOTE: Additional fittings/reducers may be required to attach the hex nipple to the main air tank.

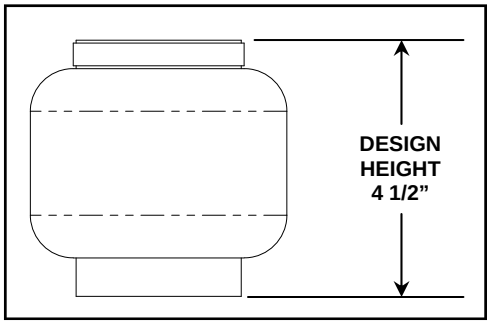
C. Run the 1/4" airline from the shut-off valve to the CABMATE. Be sure that the airline has enough clearance so that there are no pinch points that may restrict or cut the airline. Secure the airline using the cable ties supplied by Link Mfg.

D. Tighten all plumbing fittings. Then, with the system at operating pressure (90 to 110 p.s.i), open the Manual Shut-off Valve to supply air to the CABMATE. Check the system for air leaks.

E. Check for proper operation of the height control valve. Disconnect the valve linkage from the lever. Push the lever down 45°, air should flow into the air spring(s). Return the lever to the neutral position. Push the lever up 45°, air should exhaust from the air spring(s). Return the lever to the neutral position; no air should flow. Reconnect the valve linkage to the lever.

HEIGHT ADJUSTMENTS

Measure the design height of the air spring(s). The height should be 4 1/2 inches ± 1/16. To change the height, disconnect one end of the valve linkage and adjust accordingly. Tighten the lock nuts on the valve linkage.

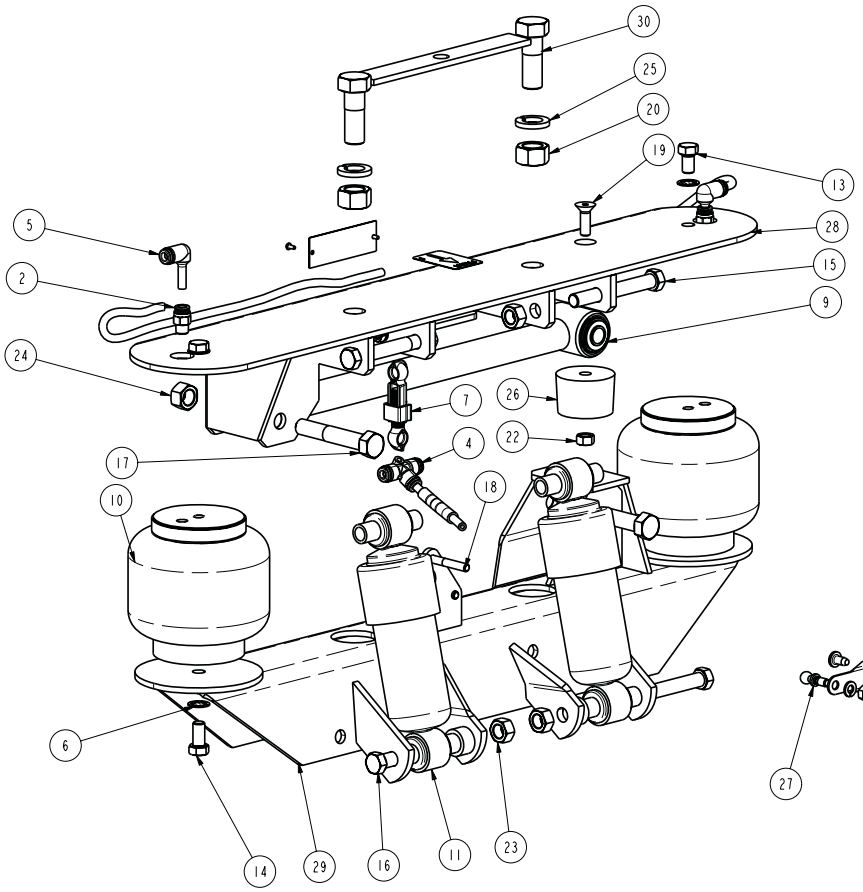


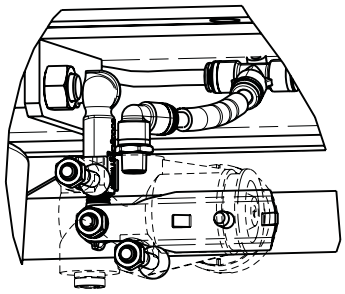
MAINTENANCE

CABMATES need 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	TORQUE
Airlines	Air leaks	Replace airline	**Compression Nut** Hand Tight + 1 Turn
Fittings	Air leaks	Remove fitting and apply fresh joint compound. Reinstall fitting, but **Do Not Overtighten. Do not use teflon tape.**	**Threaded into:** **Metal** 15 Ft. Lbs. **Plastic** Hand Tight + 1 Turn
Air Springs	**A.** Improper height **B.** Air leakage	**A.** Adjust valve linkage to maintain proper air spring height. **B.** Replace air spring.	**Size / Metal / Plastic** **3/8** 25 Ft. Lbs 04 Ft. Lbs **1/2** 28 Ft. Lbs 10 Ft. Lbs **3/4** 30 Ft. Lbs 10 Ft. Lbs
Height Control Valve*	Air spring(s) will not inflate when wheight is added to the cab; **OR** Air spring(s) will not deflate when wheight is removed from the cab.	**A.** Inspect valve to insure drive bearing notch is located on **“SUSP”** port side of valve. If not, loosen lever screw (but do not remove completely) and pull lever loose from drive bearing, rotate drive bearing until the bearing notch is in the correct position and resecure lever by tightening lever screw. **B.** Replace Valve	**1/4 Mount Fasteners** 10 Ft. Lbs. **Bearing Screw** 40-50 InLbs.
Shock Absorber	Insufficient dampening effect	Replace shocks	45 Ft. Lbs.
Lateral Control Rod	**A.** Loose nuts on lateral control rod bolts **B.** Worn bushings.	**A.** Tighten securely to clamp the inner sleeve. **B.** Replace lateral control rod.	40 Ft. Lbs.

IMPORTANT: Periodically check the tightness of all fasteners.





PARTIAL VIEW SHWOING PIVOT
BALL AND LINKAGE ATTACHMENT

CABMATE® MODEL FRTE120-A
PARTS LIST

ITEM	PART #	DESCRIPTION	QTY		ITEM	PART #	DESCRIPTION	QTY
1	13020090	AIRLINE-NYLON, 1/4" BULK (FEET)	3.72		16	1403-1432	7/16 X 4 UNF HEX CAP SCR (GR 5)	2
2	13025201	CONNECTOR, 1/4 TB 1/8 M-NPT	2		17	1404-1624	1/2 X 3 UNF HEX CAP SCR (GR 8)	2
3	13025203	ELBOW, 1/4 TB 1/8 M-NPT	1		18	1417-0814	1/4 X 1 3/4 UNC SOC FLAT CSK HD CAP SCREW	2
4	13025205	UNION TEE, 1/4 TB	1		19	1417-1008	5/16 X 1 UNC SOC FLAT SCK HD CAP SCREW	1
5	13025499	ELBOW-PLUG-IN, 1/4"	2		20	1470-2000	5/8 UNC HEX NUT (GR B)	2
6	14851205	3/8 INT TOOTH LOCK WASHER, ZINC	4		21	1476-0800	1/4 UNC HEX CTR LOCK NUT (GR B)	2
7	15000211	LINKAGE-VALVE	1		22	1476-1000	5/16 UNC HEX CTR LOCK NUT (GR B)	1
8	15000435	CORRUGATED LOOM, 1/4" BULK (FEET)	0.55		23	1477-1400	7/16 UNF HEX CTR LOCK NUT (GR B)	4
9	29932002	LATERAL CONTROL ROD	1		24	1477-1601	1/2 UNF HEX TOP LOCK NUT (GR C)	2
10	1102-0022	SPRING-AIR	2		25	1485-2000	5/8 LOCK WASHER	2
11	1201-1043	SHOCK ABSORBER	2		26	1500-0071	BUMPER-JOUNCE, 1.25	1
12	1350-0115	ASSEMBLY-HEIGHT CONTROL VALVE	1		27	29910026	KIT-PIVOT BALL	2
-	1350-0000	KIT-PROTECTION, PRESSURE	1		28	2251-1000	UNIT TOP	1
13	1401-1205	3/8 X 5/8 UNC HEX CAP SCR (GR 5)	2		29	2251-2100	UNIT BOTTOM	1
14	1401-1206	3/8 X 3/4 UNC HEX CAP SCR (GR 5)	2		30	2253-4000	MOUNT FASTENER PLATE	1
15	1403-1428	7/16 X 3 1/2 UNF HEX CAP SCR (GR 5)	2					

*NOTE: Prior to Lot No. 2495: Height Control Valve Assembly was comprised of :
Part NO. 1301-0043—Height Control Valve
Part NO. 2990-0700—Valve Arm