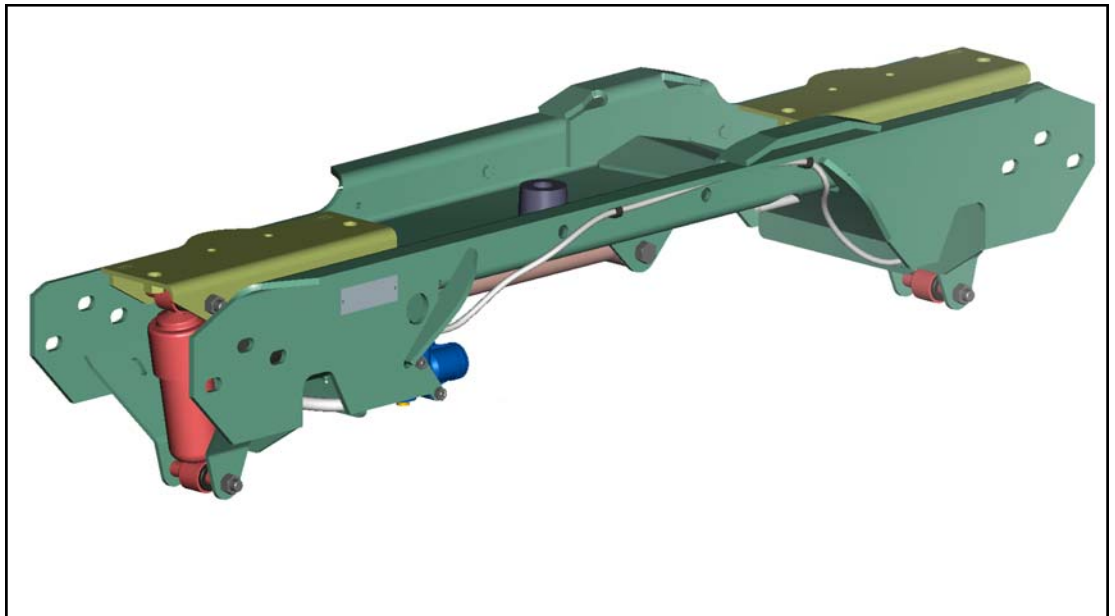


# INSTALLATION INSTRUCTIONS



**NP50-A (2478-C000)**



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**

The **CABMATE MODEL NP50-A** fits most Navistar SBA 5000 Series Paystar Conventionals built after August of 1994 and SFA 5000 Series Paystar Conventionals built after August of 1996. Not for use on trucks with butterfly hoods. It replaces the original rear crossmember, Navistar Part NO. 1613830C2.

UNIT WEIGHT: 90.8 LB.

NET WEIGHT ADDED: 40.0 LB.

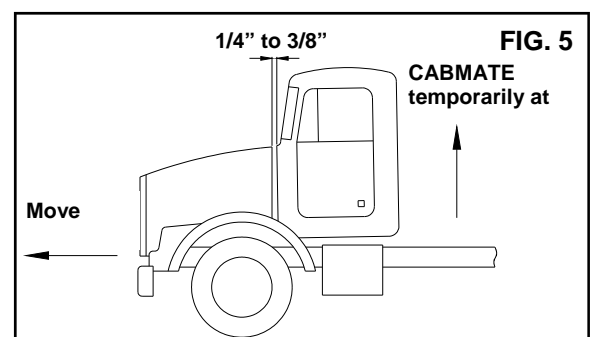
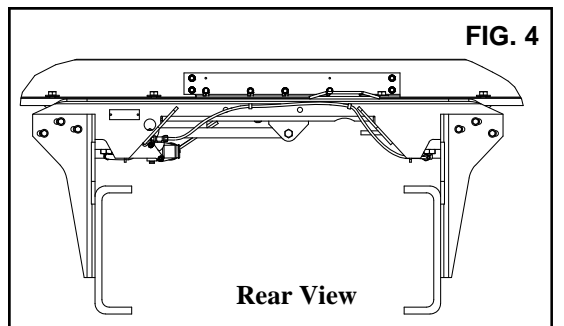
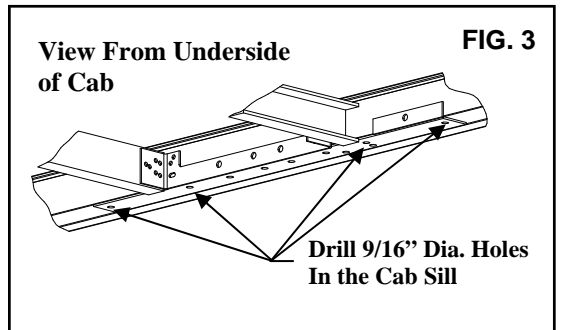
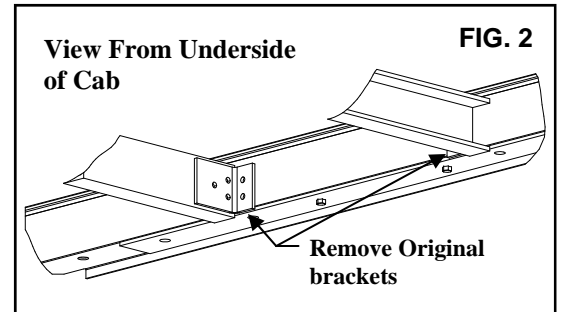
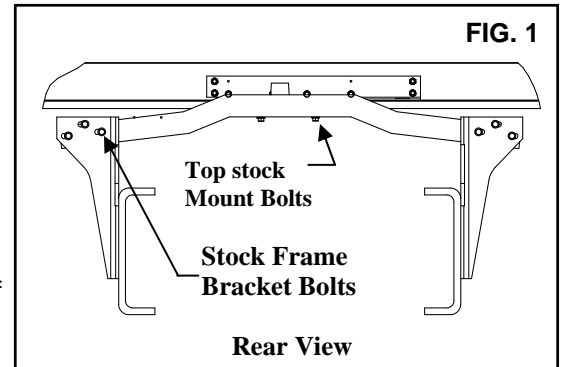
# CABMATE MODEL NP50-A

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 or options, the fit of the NP50-A CABMATE may be affected and should be evaluated before beginning installation.

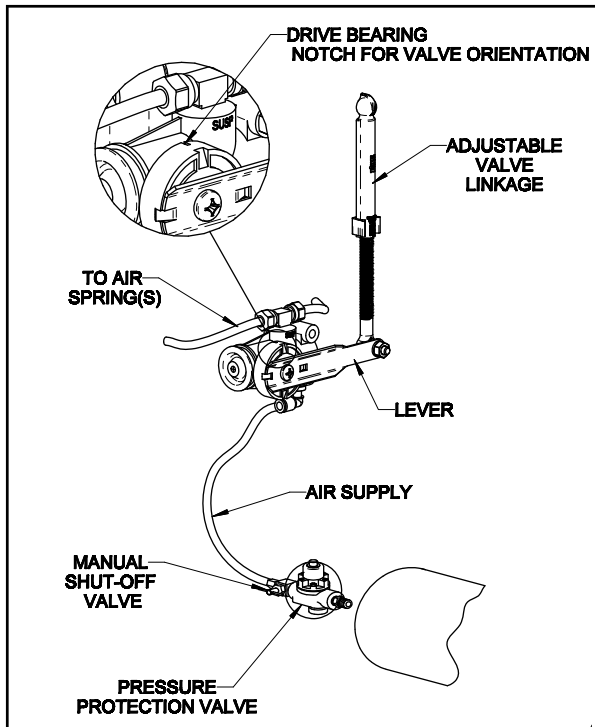
**IMPORTANT:** Installation of the CABMATE system will allow the cab to move freely. Before starting installation, check clearances between the cab and any objects the cab may contact when it moves (1 1/2 inches of clearance should be sufficient). The clearance of components that are affected by cab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

- A. Remove the two mount bolts from the top of the stock mount. Securely prop up the cab and remove the 12 frame bracket bolts to remove the stock crossmember. **NOTE:** Save the frame bracket bolts for later use (Fig. 1)
- B. Remove the two cab stringer brackets connecting the cab stringers to the rear cab sill (Fig. 2). Mount the Cab Reinforcement Support (item no. 27 on the part list) to the cab using the original fasteners from the cab stringer brackets. **NOTE:** Installing the NP50-A CABMATE on the trucks manufactured before July 1999 will require the use of the Cab Support Spacer (item no. 25 on the part list). The spacer must be positioned between the Cab Reinforcement Bracket and the Driver Side Cab Stringer. If the spacer is required for your installation be sure to use the spacer in steps C,D and E.
- C. Use the Cab Reinforcement Support as a template to drill four 9/16" dia. mount holes in the cab sill (Fig. 3) The holes will need to extend through to the inside of the cab. From inside the cab use a hole saw to open up the four 9/16" dia. Holes to 1-1/2 dia. Make sure to only saw through the top surface of the cab sill as this hole is only for fastener head and socket clearance.
- D. Loosely fasten the CABMATE to the frame brackets using the original mount bolts. From inside the cab drop the 1/2" bolts supplied by Link Mfg. (item nos. 11 and 3 on the part list) through the four new mount holes.
- E. Slowly lower the cab until it touches the top of the CABMATE. Fasten the unit to the cab sill using the 1/2" bolts supplied by Link Mfg. (item nos. 11 and 3 on the part list). **SECURELY TIGHTEN ALL FASTENERS.** Lower the cab completely.
- F. See page 2 for plumbing instructions and height adjustments.
- G. **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).



## 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 BUNKMATE 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.

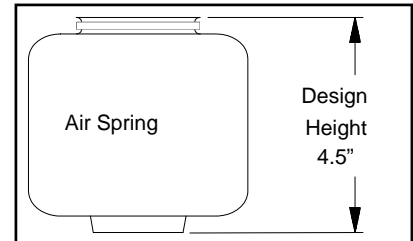
**D.** Tighten all plumbing fittings. Then, with the system at operating pressure (90 to 110 p.s.i), open the Manual Shut-off Valve to supply air to the CABMATE. Check the system for air leaks.

**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 4.5 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.

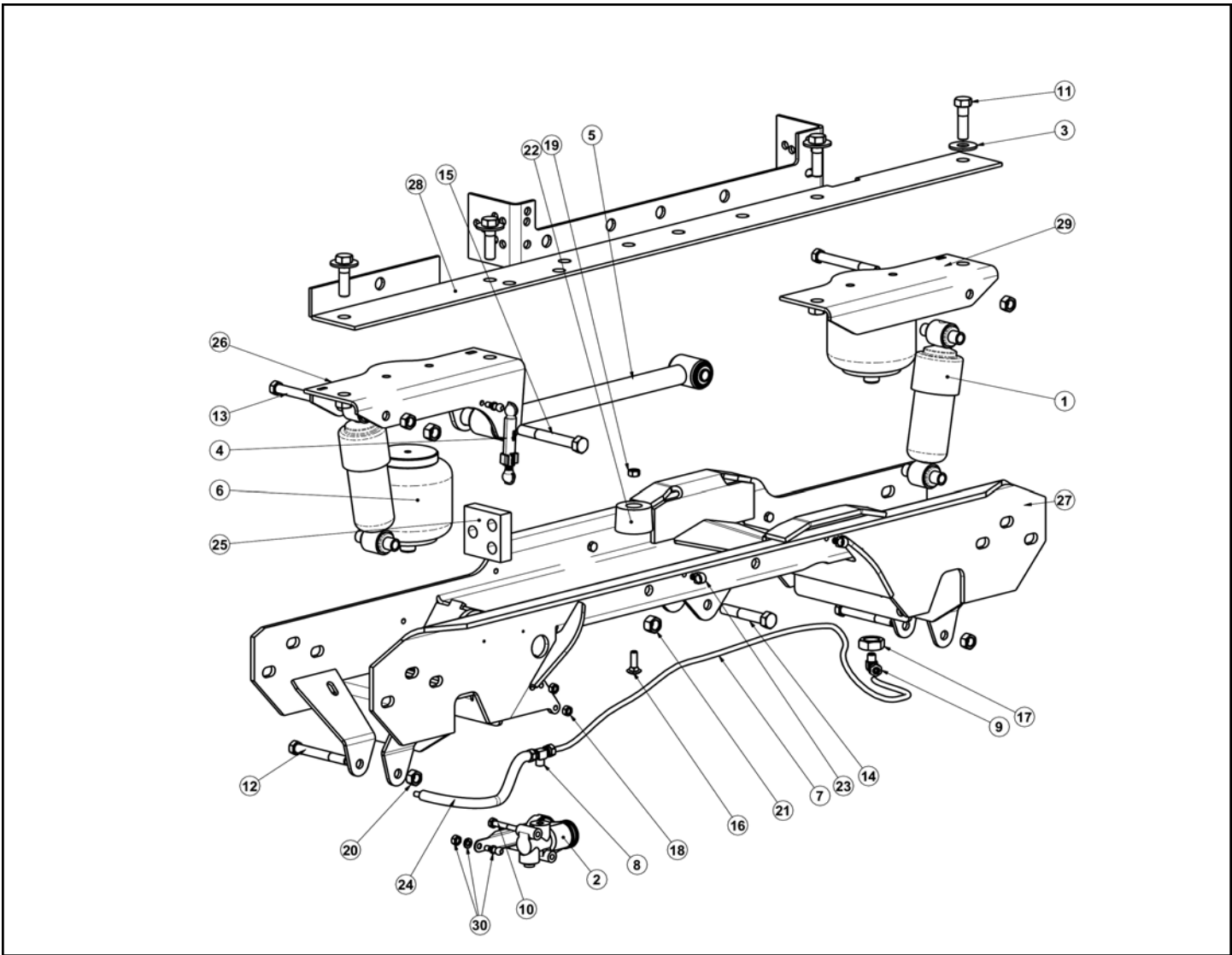


### MAINTENANCE

BUNKMATES 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
<b>Airlines</b>	Air leaks	Replace airline	<b>Compression Nut</b> Hand Tight + 1 Turn
<b>Fittings</b>	Air leaks	Remove fitting and apply fresh joint compound. Reinstall fitting, but <b>Do Not Overtighten. Do not use teflon tape.</b>	<b>Threaded into:</b> <b>Metal</b> <b>Plastic</b> 15      Hand Tight Ft. Lbs.      + 1 Turn
<b>Air Springs</b>	<b>A.</b> Improper height <b>B.</b> Air leakage	<b>A.</b> Adjust valve linkage to maintain proper air spring height. <b>B.</b> Replace air spring.	<b>Size</b> <b>Metal</b> <b>Plastic</b> <b>3/8</b> 25 Ft. Lbs    04 Ft. Lbs <b>1/2</b> 28 Ft. Lbs    10 Ft. Lbs <b>3/4</b> 30 Ft. Lbs    10 Ft. Lbs
<b>Height Control Valve</b>	Air spring(s) will not inflate when wheight is added to the cab; <b>OR</b> Air spring(s) will not deflate when wheight is removed from the cab.	<b>A.</b> 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>B.</b> Replace Valve	<b>1/4 Mount Fasteners</b> 10 Ft. Lbs.  <b>Bearing Screw</b> 40-50 InLbs.
<b>Shock Absorber</b>	Insufficient dampening effect	Replace shocks	45 Ft. Lbs.
<b>Lateral Control Rod</b>	<b>A.</b> Loose nuts on lateral control rod bolts <b>B.</b> Worn bushings.	<b>A.</b> Tighten securely to clamp the inner sleeve. <b>B.</b> Replace lateral control rod.	40 Ft. Lbs.

**IMPORTANT:** Periodically check the tightness of all fasteners.



**CABMATE® MODEL "NP50-A"  
PARTS LIST**

ITEM #	PART #	PART DESCRIPTION	QTY.	ITEM #	PART #	PART DESCRIPTION	QTY.
1	12011044	SHOCK ABSORBER	2	17	14752400	3/4 UNF HEX JAM NUT	2
2	13010056	VALVE-CONTROL HEIGHT	1	18	14760800	1/4 UNC HEX CTR LOCK NUT (GR B)	2
3	14871600	1/2 TYPE A PLAIN WASHER	4	19	14761000	5/16 UNC HEX CTR LOCK NUT (GR B)	1
4	15000213	LINKAGE-VALVE	1	20	14771405	7/16 UNF HEX TOP LOCK NUT (GR B)	4
5	29932024	LATERAL CONTROL ROD	1	21	14771601	1/2 UNF HEX TOP LOCK NUT (GR C)	2
6	11020023	SPRING-AIR	2	22	15000071	BUMPER-JOUNCE, 1.25	1
7	13020090	AIRLINE-NYLON, .250 O.D., BULK	3.4'	23	15000302	CLIP-LATCHING	2
8	13024009	BRANCH TEE, 1/4 TB 1/8 M-NPT, DOT	1	24	15000435	LOOM-CORRUGATED, .250, BULK	.58'
9	13024035	ELBOW, 1/4 TB 1/8 M-NPT, DOT	2	25	24780055	SPACER-CAB SUPPORT	1
10	14010814	1/4 X 1 3/4 UNC HEX CAP SCR (GR 5)	2	26	24781001	BRACKET-MOUNT, CAB, LH	1
11	14021614	1/2 X 1 3/4 UNC HEX CAP SCR (GR 8)	4	27	24781002	BRACKET-CROSSMEMBER, SUSPENSION	1
12	14031428	7/16 X 3 1/2 UNF HEX CAP SCR (GR 5)	2	28	24781003	SUPPORT-REINF, CAB	1
13	14031432	7/16 X 4 UNF HEX CAP SCR (GR 5)	2	29	24782000	BRACKET-MOUNT, CAB, RH	1
14	14041624	1/2 X 3 UNF HEX CAP SCR (GR 8)	1	30	29910026	KIT-PIVOT BALL	2
15	14041632	1/2 X 4 UNF HEX CAP SCR (GR 8)	1	-	13500000	KIT-PROTECTION, PRESSURE	1
16	14351008	5/16 X 1 UNC RND HD SQ NK BOLT (GRADE 5)	1				