



COVERED BY PATENTS
U.S. 4312428
CANADA 1163931

REVISIONS			
LTR	DATE	DESCRIPTION	BY
	6-13-97	ISSUED PER ECN #403	AKH
A	6-27-97	CHANGED PICTURE (IT. 2) ADDED NOTCH ECN #435	AKH
B	1-12-99	CHANGED AIR BRAKE FORCES WERE BASED ON 50 PSI. PER ECN #1776	JLF
C	4-27-00	DRAWING TITLE WAS "70 TON APPLICATION" PER ECN #2713	JLF
D	09/25/06	IT 9 (P/N 4034-18) WAS 9008-2 AND IT 34 (P/N 4034-13) WAS 9008-3. ADDED EXTRA DIMS FOR H.B. CONNECTION (TOP VIEW). ECN #7230	PS
E	10/16/06	DELETED ITEM 34 (P/N 4034-13). ITEM 9 WAS 8 RED. D. PER ECN #7279	PS

- NOTE:
- SEE PURCHASE ORDER FOR DRAWING NO. SHOWING TRUCK MOUNTED BRAKE AND LEVER LOCATIONS.
 - QUANTITIES SHOWN ARE FOR TRUCK SET OF MATERIAL.
 - THIS TRUCK MOUNTED BRAKE IS DESIGNED FOR USE WITH NO. 24 BRAKE BEAMS. WHEN USING ANY OTHER BRAKE BEAMS CONTACT ELLCON NATIONAL.
 - BADGE PLATES WILL BE SUPPLIED BY CARBUILDER.
 - THESE PARTS TO BE SHIPPED AS AN ASSEMBLY P/N 31550.
 - TRUCK MOUNTED BRAKE IS SHOWN IN LIGHT CAR, BRAKE RELEASED, AT HAND BRAKE TRUCK WITH LIVE LEVER NO. 9548-2624.
 - DO NOT LIFT USING ANY PART OF THE TRUCK MOUNTED BRAKE.
 - TORQUE NUTS (ITEM 22) TO 250-300 FT. LBS.
 - FOR AIR BRAKE CONNECTION THE CARBUILDER WILL USE (2) 1/2-13 UNC SELF LOCKING BOLTS.
 - THERE SHOULD BE SLACK ALLOWED IN HORIZONTAL CHAIN CONNECTION FOR A CAR TO NEGOTIATE A 180 FT. OR 150 FT. RADIUS CURVE FOR A.A.R. SPECIFICATION.
 - THE (2) PISTON TRAVEL INDICATOR DECALS ITEM 29 (P/N 32804) HAVE TO BE APPLIED BY THE CAR BUILDER TO EACH SIDE OF THE CAR IN THE CYLINDER AREA. THE DECALS ARE SHIPPED LOOSE.
 - UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE NOMINAL.
 - 6" CLEVIS, CLEVIS PIN AND COTTER PIN FOR HAND BRAKE CONNECTION WILL BE SUPPLIED BY THE CAR BUILDER.
 - THE HAND BRAKE CONNECTION ON THE MULTIPLYING LEVER (IT. 32) IS IDENTIFIED BY "HAND BRAKE" AND IS PAINTED WHITE.
 - SEE ELLCON NATIONAL'S INSTALLATION AND FIELD SERVICE INSTRUCTIONS FOR SET-UP PROCEDURES.

6	3958-48	WASHER, HARDENED 1"	33
A/R	32361-20	MULTIPLYING LEVER	32
1	32315	CLEVIS	31
1	30538-1	CLEVIS PIN, 1 11/32 X 3 TO C HOLE	30
2	32804	P.T INDICATOR DECAL (NOT SHOWN)	29
1	31411	CLEVIS (90 R.H. TWIST)	28
1	8819	CLEVIS	27
1	9894	PUSH ROD (PART OF ITEM 1)	26
1	30252	NAMEPLATE (PART OF ITEM 1)	25
1	4493-35	NUT (ESNA), 1/2-13 (PART OF ITEM 3)	24
1	33158	CONTROL ARM NUT (PART OF ITEM 3)	23
6	4493-31	NUT (ESNA), 1-8	22
6	3442-137	BOLT, 1-8 UNC X 3 3/4 LG. (GR5)	21
1	5340-4	SHOULDER BOLT, 3/8-16	20
1	4493-8	NUT (ESNA), 3/8-16	19
1	31439	CHAIN	18
2	31438-3	COTTER PIN	17
2	31438-2	PIN	ASS'Y P/N 31438
2	31438-1	SHACKLE	
1	31157-1	ACTUATOR LEVER	15
1	33715-2	PULL ROD	14
1	9578-2124	DEAD LEVER	13
A/R	9548-2624	LIVE LEVER (HAND BRAKE TRUCK)	12
1	3958-35	WASHER, PLAIN, 1 3/8	11
10	4034-18	COTTER PIN, 3/8 DIA X 2 1/2 LG	10
1	30538-2	CLEVIS PIN, 1 11/32 X 5 3/8 TO C HOLE	9
2	30166-2	CLEVIS PIN, 1 3/32 X 2 1/2 TO C HOLE	8
4	30166-1	CLEVIS PIN, 1 3/32 X 3 TO C HOLE	7
2	30167-1	CLEVIS PIN, 1 7/32 X 3 TO C HOLE	6
1	31139	CONTROL ARM (PART OF ITEM 3)	5
1	7100-26R	SLACK ADJUSTER (DOUBLE ACTING)	4
1	33980-2	DEAD LEVER BRACKET	3
1	31210-2	BOLSTER SADDLE AND CYLINDER	2
			1
QTY.	PART NO.	DESCRIPTION	ITEM

BILL OF MATERIAL			
ELLCON		NATIONAL	
50 BEECHTREE BLVD.		GREENVILLE, S.C. 29605	
70 TON ASSEMBLY MODEL 8500-THIRD LEVER TRUCK MOUNTED BRAKE			
MATERIAL:	WEIGHT: 250 LBS PER TMB WITH HANDBRAKE LEVER (LESS BRAKE BEAMS, SHOES, KEYS AND CYLINDER HOSE)	SCALE: 2"=1'-0"	DATE: 6-13-97
DRAWN: AKH	CHECKED: P. SDPT		REV. E

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