



- NOTES:
1. ALL TRUCK ASSEMBLIES ARE TO HAVE SIDE FRAMES MATCHED IN ACCORDANCE WITH AAR MANUAL PG. D-117. SIDE FRAMES IN EACH TRUCK ASSEMBLY TO BE MATCHED WITHIN ONE OF THE SAME NUMBER OF MATING BUTTON HEADS.
 2. APPLY SIDE BEARING CAGES IN TRUCK SHOP. SIDE BEARING BLOCKS, ROLLERS, & END CLOSURES MUST BE APPLIED AFTER CAR IS PAINTED.
 3. APPLY ITEM 35 TO ITEM 26 BEFORE INSTALLING INTO BACK OF CYLINDER ITEM 42.
 4. ALL COTTERS ON TRUCK TO HAVE ONE LEG BENT.
 5. TORQUE ITEM 29 TO 74 N m
 6. TORQUE ITEMS TO 150 N m
 7. DESIGN - 880: 19' END TRUCK WITH HANDBRAKE. DESIGN - 881: 14' END TRUCK WITH OUT HANDBRAKE.
 8. LEVER RATIO IS 6.23:1
 9. FOLLOW WABCO INSTALLATION PROCEDURE FOR 'TMX' BRAKE SYSTEM.
 10. FOR TRUCK ASSEMBLY PROCEDURE, SEE NATIONAL CASTINGS INC. PRODUCT BULLETIN.
 11. SPRAY BACK SLOPING FACE OF FRICTION WEDGE, ITEM 21, WITH DRY MOLY LUBE, ITEM 66, BEFORE ASSEMBLY. * DO NOT SPRAY FRONT VERTICAL FACE *
 12. THE FIBER PROTECTIVE WASHER SUPPLIED WITH THE EARTHING STUD, ITEM 13, MUST BE DISCARDED AT FINAL ASSEMBLY.
 13. TORQUE ITEMS TO 115 N m
 14. APPLY ITEM 71 ONTO ITEM 4 USING ITEMS 15 & 16 PRIOR TO ASSEMBLY

DESIGN	DESCRIPTION	B/M PART NUMBER	QTY	VENDOR	VENDOR PART NUMBER	VENDOR DRG NUMBER	ITEM
	TRUCK SIDE FRAME	TB100281	2	NATIONAL	52962	52962-A	1
	TRUCK BOLSTER	TA100412	1	NATIONAL	52972	52972	2
	AXLE ASSEMBLY - UK WHEELSET	TB001302	2	(SEE BXM)			3
	TRANSOM	TI200002	1			(3)T-120-2	4
	COTTER, SPRING PIN	BM103027	1	WABCO	660497		5
	ROLLER BEARING ADAPTER	TH100060	4	NATIONAL	52703-2	52703-2	6
	BRAKE SHOE-2" COMPOSITION	TS100045	4	WABCO	RE394	RE394	7
	BRAKE SHOE KEY	TS101012	4				8
	TRUCK SPRING - INNER	TI101050	12	NATIONAL	53262	53262	9
	TRUCK SPRING - OUTER	TI100042	12	NATIONAL	53261	53261	10
	TRUCK SIDE BEARING CAGE	TL101006	2	STUCKI	690		11
	SIDE BEARING ASSEMBLY	TL001037	2	STUCKI	690 RL		12
	10mm EARTHING STUD ASSEMBLY	CM100050	2		BR 9005499-02	BR 9005499	13
	GROUNDING STRAP	ME110012	2				14
	HUCK BOLT 3/8" DIA.	CA100189	2	HUCK	C50L 90-BR20-24		15
	HUCK COLLAR 3/8" DIA.	CA200016	2	HUCK	3LC-2R-20		16
	HUCK BOLT-3/4" DIA.	CA100038	4	HUCK	C50LR-BR24-24		17
	CONTROL ROD	BK103012	1	WABCO	660418		18
	ROLLER BEARING RETAINER KEY	TP100003	4	SCHAEFER	3666BB	3666-C	19
	ROCKER SEAT BEARING	TM100058	4	NATIONAL	49538	49538-A	20
	SNUBBER FRICTION CASTING	TK101077	4	NATIONAL	52978	52978	21
	SNUBBER SPRING - OUTER	TK103044	4	NATIONAL	53263	53263	22
	SNUBBER SPRING - INNER	TK104029	4	NATIONAL	53264-2	53264-2	23
	TRIGGER	BK102004	1	WABCO	660417		24
	BRAKE PIN	BP100022	2	WABCO	660411-2	3/4" DIA. X 3 1/2"	25
	PUSH ROD ASS'Y. - 'TMX'	BF102043	1	WABCO	660414		26
	COTTER 'STANDARD'	BM103003	1	WABCO	94977	3/8" DIA. X 1 1/2" LG	27
	NUT, HEX HEAD - 1/2" ESN	BG103048	1	WABCO	660421		28
	CAP SCREW - 1/2"-13NC X 1 1/4" LG	BG103051	1	WABCO	523190		29
	SLACK ADJUSTER (C1000-DJ)	CK125002	2				30
	AIR BRAKE HOSE (28 3/8")	BK100049	1	WABCO	660416		31
	CAP SCREW	BG104089	2	WABCO	593006	3/8" DIA. X 2 1/2" LG.	32
	COTTER	BM103029	2	WABCO	660554	3/8" DIA. X 3 LG.	33
	ANTI-RATTLE RING (RUBBER)	BM100159	1	WABCO	596401		34
	BRAKE PIN	BP101044	2	WABCO	660413	3/4" DIA. X 2 1/4" LG.	35
	BRAKE PIN	BP107005	1	WABCO	660420	3/4" DIA. X 1 1/2" LG.	36
	STRAINER	BA101002	1	WABCO	526835		37
	BOLSTER WEAR CUP LINER	TE101008	1	POLYHISOLIDEUR	AF710340		38
	TRUCK LEVER 3" CYL.	TC100125	1	WABCO	661120		39
	TRUCK LEVER	TC100151	1	WABCO	661143		40
	BRAKE CYLINDER, 12" DIA.	TC103010	1	WABCO	661130-1		41
	BRAKE BEAM WEAR PLATE	TN100006	4	HOLLAND	MDL*WE5500	7B-888-1	42
	BRAKE BEAM, 12" BRAKE HEADS	TQ100073	2	NATIONAL	661123		43
	BOLT 3" TRANSOM	TM101005	4	NATIONAL	51712-1	51712-A	44
	NUT 3" TRANSOM	TM101006	4	NATIONAL	51712-2	51712-A	45
	PIPE FITTING GASKET - 1/2"	BG101003	1	WABCO	93840		46
	LOCKNUT - 3/8"-11NC, HEX HD., GR. 5	BG103047	2	WABCO	645002-0002		47
	TORX FLANGE LOCKNUT	CC103008	4	CAMCAR	75400000-031	3/8"-9NC	48
	BOLT, TORX OVAL HEAD GR. 8	CB100018	4	CAMCAR	73420156-140	3/8"-9NC X 3 1/2"	49
	ROCKER SEAT	TM100318	2	NATIONAL	52698		50
	PISTON TRAVEL INDICATOR	TM100300	1	WABCO	660581		51
	HUCK COLLAR-3/4" DIA.-FLANGED	CA200017	4	HUCK	3LC-2R-24		52
	COTTER	BM103026	5	WABCO	569145	3/8" DIA. X 2 1/2" LG.	55
	LOCKNUT - 1/2"	BG103050	3	WABCO	645002-0001	1/2"-13NC	56
	BOLT-TEE HEAD	BG102059	3	WABCO	593042	1/2"-13NC X 2 1/2 LG	57
	HAND BRAKE LEVER, 17"	TC100127	1	WABCO	661128	17"	58
	BRAKE PIN	BP101045	1	WABCO	660427	1 1/8" DIA. X 2 3/4 LG	59
	BRAKE CLEVIS	BF105086	1	WABCO	660426		60
	BRACKET - HAND BRAKE LEVER	TB101014	1	WABCO	660425		61
	BOLT M10 X 25	CB115003	2				62
	LOCKWASHER - 10mm	CF107051	2				63
	CONDUCTIVE PASTE	HE100214	2kg	OVERHEAD LINE	UNIAL		64
	DRY MOLY LUBE	ML100051	.2	SPRAY ON	S00200		65
	CYLINDER LEVER 'J' ASSY	TC100130	1	WABCO	661141	5 3/8"	67
	NON-CYLINDER LEVER 'J' ASSY	TC100132	1	WABCO	661142	6 1/8"	68
	BRAKE PIN	BP101057	2	WABCO	660413-1	1 1/8" DIA. X 4 3/4 LG.	69
	SPACER	MM105035	2	WABCO	661147		70
	SUPPORT	M0090469	1		M0090469	2M-009-469	71

JJD	ITEM 9 WAS TI101045; ITEM 10 WAS TI100057; ITEM 22 WAS TK103039; ITEM 23 WAS TK104026	MAR-09-01	DBB	E
JJD	CORRECTED TORQUE VALUE	JAN-11-01	DBB	D
DJS	ROTATED ITEM 71 180°	DEC-22-00	DBB	C
JJD	M0090469 WAS M0090392; CA100189 WAS CA100191; C50L 90-BR20-24 WAS C50L 90-BR20-32	NOV-3-00	RMT	B
JJD	KNORR-BRAMSE VLVCV REPLACED WITH WESTINGHOUSE	OCT-19-00	RMT	A
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES ANGLES ARE IN DEGREES HOLE DIAMETERS ARE DIMENSIONS IN MM WEIGHT IS IN KG.				
Thrall Car Objective Excellence				
TRUCK ARRANGEMENT SWING MOTION W/TMX - TMB				
81-6013 SEP-10-2001				
SCALE: 1: 8 MATERIAL: H				
DRG BY: RMT DATE: SEP-14-00 DRAWING NO. 800				
CHK BY: DJS DATE: SEP-15-00 ISSUED: 00-6009 NLA M-001 801				

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