MATERIAL LIST covering

One Car Set of 26-C/CS-2 Air Brake Control Details With Outboard Mounted HP-1C Disc Brake Units

for

LONG ISLAND RAILROAD BI-LEVEL PASSENGER CARS Contract 5254

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
		Brake Control Equipme And Details	<u>nt</u>		
1	1	D-3 Operating Unit Unit contains the following portions on		to: EA85142-51	280
		a laminated Pipe Brac	ket:		
		-26-C Service Portion -J-1.2-1 Relay Valve -32-A Magnet Valve			
		-N-1 Reducing Valve (snow brake) -Snow Brake Magnet Va	lve		
		-H-5 Relayair Valve (snow brake)		·	
		-Snow Brake Cut-Out C -Variable Load Valve -Reservoir release va			
		-Combined Brake pipe Cut-out Cock and strainer			
	•	-Timing and Displacem Volumes			
		-Manual reservoir rel valve -By pass limiting val			
		-Pressure switch -Transducer -24-C Double check va	lve		

Registered TRADEMARK of American Standard Inc.

			PC.NO.	DWG.NO.	WGT.EA.
a	1	Fittings, 3/8" sweat	515956		1/2
b c	3 2	Fittings, 1/2" sweat Fittings, 1" x 3/4"	503684		1/2
d	1	welded Fittings, 1" x 1"	565258	•	1
		welded	565259	$\mathbf{e}^{\mathbf{i}}$. 1
e	1	Gaskets, 3/8" flange	93839		-
f	3 3	Gaskets, 1/2" flange	93840		
g h	2	Gaskets, 1" flange Screw, 3/8" x 1-1/2"	93986		
i	12	cap Screw, 1/2" x 1-3/4"	585750		
j	1	cap Connector, Snow Brake	581832		
		Magnet	573042	CA81270	
2	1	Reservoir, Comb.Control			
		Selector (500/900 in. 3)	559380	CA69810-125	55
		<pre>w/hangers less ftgs. w/bottom drain plugge 10" x 21-23/32"</pre>	ed,		
a	1	Fitting, 3/4" sweat for 5/8" O.D.C.T.			
b	1	Fitting, 1/2" sweat for			3/4
С	1	5/8" O.D.C.T. Gasket, 3/4"	503684		· 1/2
ď	ī	Gasket, 1/2"	93841		
e	4	Screw, 1/2" x 1-1/4" cap	93840		
_		 -	579983		
3	1	Reservoir, 16" x 72" Main (less ftgs) (See Note 3)	586710- 1000	C-0586710, 1000,00	120
a	1	Fittings, l" x l"			
þ	1	weld Fitting, l" x 3/4"	565259		1
		weld	565258		1
đ	2 4	Gasket, l" flange Screw, 1/2" x 1-1/4"	93986		
е	1	cap Cock, 1/2" drain,	579983		
4	1	ball type Valve, 1" Check	582233 520102	CA85074-56 AA69877-11	1 4-1/4
5	1	Pilton D Mana			/ -
a	1	Filter-P Type Drain Cock	569931 582233	CA65175-2 CA85074-56	16 1
6	2	Valve, B-3-A Emergency			-
		Brake Valve	51497	BA28673-50	4
7	1 .	Valve, No. 8 Vent w/Special Branch			•

Spec. Issued: 8/20/87 Spec. Revised: 9/15/87

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
a	2	Fitting, 1-1/4" x			·
		1-1/4"	565262		1-1/2
b	2	Gasket, 1-1/4"	94790		/2
C	2	Screw, 5/8" x			
		4-1/2" cap	581830		
d	2	Nut, 5/8" hex lock	549799	4/1	•
е	1	Plug, Pipe, 3/8" NPT	522768		
8	1	Valve, A-1 Reduction			
		Relay	590406	DA83334-57	42
a	1	Fitting, l" x l" weld	565259		1
b	1	Gasket, l" flange	93986		_
С	2	Screw, 1/2" x 1-1/4" c	ap 579983		
9	4	Tee, 1-1/4" x 1-1/4" x			
		l" Branch Pipe	95495	CA56411-54	5
a	8	Fitting, 1-1/4" x 1-1/4 Weld	4" 565262		
b	4	Fitting, 1" x 1" weld			1-1/2
C	8	Gasket, 1-1/4" flange			1
đ	4	Gasket, 1" flange			
ē	8	Screw, 5/8" x 4-3/4"	93986	•	
•	J	hex hd. cap	E07E10		
f	8	Nut, 5/8" Hex lock	587519	•	
g	8	Screw, 1/2" x 1-7/8"	549799		
9	J	hex hd. cap	F76100		
h	8	Nut, 1/2" hex lock	576132 574077		
		Hose and End Cock Deta	ils		
10	2	Cock, 1-1/4" Angle, with	th		
		Locking Handle vented	d 576249	CA84773-51	7
11	3	Cock, 1" Cutout, with			
	J	Locking Handle vented	576601	DA84473-52	A
		manage vence	2 3/0001	DH044/3-32	4
12	1	Cock, 1-1/4" Cutout			
		w/Locking Handle, Vente	ed 581236	DA84473-52	4
		w, undic, vence	JU1230	DR044/3-32	4
13	2	Hose, 1-3/8" x 22" with	,		
		FP-5 Coupling and 1-1	/ 4		
		Nipple	987101	CA73987-62	7
			307101	CA/3307-02	/
14	2	Coupling, F-3 Dummy			
		with chain	559997	AA-5349-2	1
		··· ··· ··· ··· ··· ··· ··· ··· ··· ··	33331	DU-3342_7	1
15	2	Hose, 1-1/8" x 22"			
		w/LS-4 Coupling and			
		Nipple	562651	CA78956-20	9
			302031	CA/0330-20	9
16	2.	Coupling, E&L-3 Dummy			
		with chain	561490	AA-5349-5	1
				JJ7J -J	-
		•			

Spec. Issued: 8/20/87 Spec. Revised: 9/15/87 "

Spec.No. 77-LIRR-275

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
		Leveling Valve Equipmen And Details	ıt.		
17	2	Cock, 3/8" Ball, Vented Locking Handle	576598	DA84473-52	1
18	2	Filter, 3/8" OC-1-B w/1/16" choke	582205	CA83877-27	3
19	3	Filter, 3/8" OC-1-B	582132	BA84970-10	3
20	2	Valve, 3/8" Check	543326	AA69877-22	2-1/2
21	3	Valve, C-1 Leveling	564312	CA81173-57	4
22	3	Linkage, Non-Collapsibl Extension	e 573743	CA81230-7	2
		Electronic Wheel Slide Equipment			•
23	1	E-7 Wheel Slide Micro- Processor Controller w/Self-Diagnostic Feature complete with enclosure, connector, receptacles	670079		30
24	2	D-1 DECELOSTAT Valve (64 volt)	670306		25
25	4	Magnetic Pick-Up	PTM-1001	SK 4900 0001,00	1
26	4	Magnetic Pick-Up Connector	PTM-1002		1/2
27	4	Magnetic Pick-Up Connector Housing	579503	CA84940-5	1
28	4	Gear, Split Ring	585368	CA84940-9	10
		Tread Brake Unit Equipme And Details	<u>ent</u>		
29	2	H-6-A Tread Brake Units L.H. (non hand brake)	304177	FA353077	84

Registered TRADEMARK of American Standard Inc.

Spec. Issued: 8/20/87 4 Spec.No. 77-LIRR-275 Spec. Revised: 9/15/87

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
a	2	3/8" Socket Welded			···
	_	Fitting	565252	CA78208-52	1/2
b	2	3/8" Gasket	93839		•
С	4	3/8" x 1" Capscrew	579193		
30	2	H-6-A Tread Brake Units R.H. (non hand brake)		_ω 1	84
a	2	3/8" Socket Welded Fitting	565252	CA78208-52	1/2
b	2	3/8" Gasket	93839	CR/0200-32	1/2
C	4	3/8" x 1" Capscrew	579193		•
31	2	H-6-A Tread Brake Unit L.H. (handbráke)	304179		88
a	2	3/8" Socket Welded Fitting	565252	CA78208-52	1 /2
b	2	3/8" Gasket	93839	CA/6206-52	1/2
c	4	3/8" x 1" Capscrew	579193		
32	2	H-6-A Tread Brake Unit	304180		88
·a	2	3/8" Socket Welded Fitting	565252	CA78208-52	1./2
b	2	3/8" Gasket	93839	CA/0200-32	1/2
c	4	3/8" x 1" Capscrew	579193		
33	8	Cobra Shoes	V236	AV236-51	9
34	1 (To	Hand Brake Rigging Kit be designed with input f	PTM1006 rom Car Bu	ilder)	
		Outboard Mounted Disc Brake Equipment			
35	4	HP-1-C Disc Brake Unit Assembly Complete,LH	302966	FA352454-51	210
36	4	HP-1-C Disc Brake Unit Assembly Complete,RH	302982	FA352454-51	210
37	8	24" Dia. Disc w/hub	581044	FA84933-13	195
		Miscellaneous Details			
38	2	Cock, 3/4" x 3/4" x 3/8" Brake Cylinder Cutout w/ Locking Handle	572363	BA84459-55	3-1/2
					, -

Spec. Issued: 8/20/87 Spec. Revised: 9/15/87 5 Spec.No. 77-LIRR-275

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
39	3	Hose, 3/8" AAR, M-618 w/3/4" x 18 NPT (Car Body to Truck,			
		Leveling Valve)	PTM1005		4
40	4	5/8" x 36" AAR M618 Hose	PTM-1003	ŭ	10
41	8	1/2" x 21" AAR M618 Hose	PTM-1004		7
		Coupler Equipment			
42	1 .	N-2-A Car Coupler	588063	Similar to: EA85146-52	310
43	1	Coupler Centering Device	574784	FA84419-3	12
44	1	Valve, B-5 Uncoupling (Black)	590463 0002		9
a b	1 2	Handle 3/8" x 1" O.D.C.T.	78533		1/2
C	2	sweat fitting 3/9" gasket	512032 93839		
đ.	4	3/8" x 1" cap screw	579193		
4 5	1	Reservoir 10 x 15-13/16	544040	BA79810-14	17-1/2
16	1	Valve 3/8" Check	543326	AA69877-22	2-1/2
1 7	1	Choke Fitting	557106	AA63142	1/2

NOTE: Draft Gear and Drawbar are not included in WABCO PTD Scope of Supply.

Spec. Issued: 8/20/87 Spec. Revised: 9/15/87 "

NOTES:

- 1. Devices identified by "PTM" piece numbers are for proposal purposes to identify new devices or existing devices which will require some modifications to meet specification requirements. Drawings, if provided for "PTM" numbers, are furnished only for reference purposes to give general outline dimensions for existing devices which could be used for this program. The drawings referring to "PTM" devices are not to be considered as final outline drawings. Standard WABCO piece numbers and WABCO drawing numbers will be assigned to these devices after contract signing.
- 2. All WABCO flanged sweat fittings shown in this material list are designed for use with copper tubing conforming to U.S.A. standards. For nominal diameters of tubing the tolerance is:

Nominal Tube Size (Inch)	Tolerance (Inch)
1/8 - 3/8	+ 3/64
1/2 - 3/4	<u>+</u> 1/16
1 - 2	<u>+</u> 5/64

- 3. Reservoir sizes shown are for reference purposes only. Changes in volume and/or dimensions may be necessary to meet the railways' or carbuilders' requirements once the various components' air consumptions are better defined.
- 4. Hose assemblies shown are tentative only and are subject to change to suit installation requirements.
- 5. Fittings, hoses and piping not integral to the unit packages or not specifically listed are not included. Schrader-type quick disconnect fittings must be supplied by carbuilder where required.
- 6. Pipe sizes and lengths shown on the equipment piping diagram must be adhered to in order to assure specification compliance.
- 7. Piping cleanliness must be insured before operating the brake system to prevent premature failures.
- 8. All pipe threads are American Standard (NPT).
- 9. Air gage or pressure switch test fittings are not included as part of this equipment and must be separately supplied by the carbuilder.

PRELIMINARY MATERIAL LIST COVERING

One Car Set of 26-C/CS-2 Air Brake Control Details
With Inboard Mounted 3P Disc Brake Units
and SAB Tread Brake Units
with Spring Applied Parking Brakes
for

LONG ISLAND RAILROAD BI-LEVEL PASSENGER CARS Contract 5254

ITEM	QUAN.	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT.EA.
		Brake Control Equipment And Details			
1	1	D-3.1 Operating Unit Unit contains the following portions on a laminated Pipe Bracke	672193 t:	EA85142-54	280
		-26-C Service Portion -J-1.2-1 Relay Valve -32-A Magnet Valve (64 Volt) -N-1 Reducing Valve (snow brake) -Snow Brake Magnet Valve (64 Volt) -H-5 Relayair Valve (snow brake) -Snow Brake Cut-Out Coc -Variable Load Valve -Reservoir Release Valve -Combined Brake Pipe Cut-Out Cock and Strainer -Timing and Displacemen Volumes -Manual Reservoir Relea valve -By Pass Limiting Valve -24-C Double Check Valve	k e t se		b

	Issued: 8/20/87	1 Spec.No. 77-LIRR-276
Spec.	Revised: 9/15/87,	2/19/88, 11/28/88, 2/20/89, 3/14/89,
	4/13/89,	8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90
	4/11/90,	5/8/90

ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATEI WGT. EA.
a	1	J-1.2-1 Relay Valve	558670-1	FA81347-56	
b	1	Fittings, 3/8" x		3330201, 30	
		1/2" sweat for 1/2"			
	2	O.D.C.T. (AS)	515956		1/2
C	2	Fittings, 1/2" x			·
		5/8" sweat for 5/8"			
đ	1	O.D.C.T. (7,9)	503684		1/2
u	±	Fittings, 1" x 1/2" welded (BC on D-3)	565055		
е	3	Fittings, l" x l"	565257		1
_	•	welded (BP,MR,6)	565259		•
f	1	Gaskets, 3/8" flange	93839		1
g	3	Gaskets, 1/2" flange	93840		
h	3 5 2	Gaskets, 1" flange	93986		
i	2	Screw, $3/8" \times 1-1/2"$			
â		cap	585750		
j	10	Screw, $1/2$ " x $1-3/4$ "			
	_	cap	581832		
k	1	Connector, Snow Brake			
1	,	Magnet	671483	FA82219-8	
1	1	Fitting, 1/2" x 1/2"			
m	6	welded (16)	565254		
m	O	Screw, 1/2" x 1-1/4"	550000		
n	1	Cap (For J-1.2-1) Fitting, 1" Flange x	579983		
••	•	3/4" Welded (30)	ECENEN		
0	1	Connector, 32-A Mag.	565258 671002	<i>C</i> 7 00010 0	•
p	1	Connector, 32-A Mag	672235	CA-82219-8 CA-82219-8	
2	1	Reservoir, Comb.Control Selector (500/900 in. ³) w/hangers less ftgs. w/bottom drain plugge 10" x 21-23/32"	559380	C0559380, 0000,00	55
a	1	Fitting, 3/4" sweat for			
b	1	5/8" O.D.C.T.	505220		3/4
~	-	Fitting, 1/2" sweat for 5/8" O.D.C.T.	503684		2.40
C	1	Gasket, 3/4"	93841		1/2
đ	1	Gasket, 1/2"	93840		
е	4	Screw, 1/2" x 1-1/4"	22040		
		cap	579983		
3	2	Reservoir, 18" x 32"	672257	D0670257 300	•
-	_	(Supply Res. w/C.O.C. Shield)	672357- 1000	D0672357,100 0	0, 0 120
a	2	Drain Cock	582233	CN05074 56	7
b	4	l" x l" Flange Fitting	JU22JJ	CA85074-56	1
		welded, elbow	578322		1
C	4	Gasket, 1" Flange	93986		<u>.</u>
		tered TRADEMARK of Westin			

Spec. Issued: 8/20/87 2 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90, 5/8/90

ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT. EA.
đ	8	Screw, 1/2" x 1-3/4" Cap	581832		
4	1	Valve, l" Check (Sup R)		AA69877-11	4-1/4
a 5	1	Choke Fitting 3/4" Coalescing Filter w/Drain	71099 672194	BA9602 E0672194, 0000,00	1 80
a	1	Timing Unit (37.5 volt)	672426	C0672426,	
b c	1	Pressure Switch Test Fitting	579607-0030 584627	0000,00 BA84961-51 CA85062-50	2 .5
6	2	Valve, B-3-C Emergency Brake Valve	93510	CA54599-50	4
7	1	Valve, No. 8 Vent w/Special Branch Pipe Tee (plugable)	580734	EB04000 F7	10
a	2	Fitting, 1-1/4" x 1-1/4", welded		FA84990-57	19
b c	2 4	Gasket, 1-1/4" Screw, 5/8" x	565262 94790		1-1/2
d e	4 1	4-1/2" cap Nut, 5/8" hex lock Plug, Pipe, 3/8" NPT	581830 549799 522768		
8	1	Valve, A-l Reduction Relay (pluggable)	580735	FA84990-58	47
a b c	1 1 2	Fitting, l" x l" weld Gasket, l" flange Screw, 1/2" x 1-1/4" cap	565259 93986 579983		1
9	4	Tee, 1-1/4" x 1-1/4" x 1" Branch Pipe	95495	CA56411-54	5
a	8	Fitting, 1-1/4" x 1-1/4' Weld			
b c	2 2	Fitting, l" x l" weld Fitting, l" x 3/4",	565262 565259		1-1/2 1
d e f	8 4 16	welded Gasket, 1-1/4" flange Gasket, 1" flange Screw, 5/8" x 4-3/4"	565258 94790 93986		
g h	16 8	hex hd. cap Nut, 5/8" Hex lock Screw, 1/2" x 1-7/8"	587519 549799		
i	8	hex hd. cap Nut, 1/2" hex lock	576132 574077		

Spec. Issued: 8/20/87 3 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90. 5/8/90

ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATEI WGT. EA
		Hose and End Cock Deta	ils		
10	1	Brake Pipe Cock, 1-1/4' Angle, w/Locking Handle vented	576249	CA84773-51	7
11	2	Main Reservoir Cock l" Cutout, w/Locking Handle vented	576601	DA84473-52	4
a	2	60°, l" x l" Angle			•
b	2	Fitting Main Reservoir Cock 1" Cutout, w/Locking Handle 180 degrees opposite Item 11, vented	503807 672656	CA63061 DA84473-52	- 4
12	1	Brake Pipe Cock, $1-1/4$ " Cutout w/Locking Handle Vented $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	581236	D204452 50	
_	1	• •		DA84473-52	6
a b	1	<pre>1-1/4" 60° Angle Ftg. Brake Pipe Cock, 1-1/4" Cutout w/Locking Handle 180 degrees opposite</pre>	514968	CA63061	
		of Item 12, Vented 1\1/4 x 1-1/4"		DA84473-52	6 4
13	1	Brake Pipe Hose, 1-3/8" x 22" with FP-5 Coupling and			•
		1/1-4" Nipple	987101	CA73987-62	7
а	1	Brake Pipe Hose, 1-3/8" x 87" with Straight Swivel Union	673174- 0870	D0673173, 0000,S0	-
L 4	1	Coupling, F-3 Dummy with chain	559997	C0559997, 0000,00	1
.5	1	Main Reservoir Hose, 1-1/8" x 22" w/LS-4 Coupling and Nipple	562651	CA78956-20	9
a	1	Main Reservoir Hose, 1-1/8" x 87" with Straight Union Swivel	673173- 0870	D0673173,	_
.6	1	Coupling, E&L-3 Dummy		,	
	Regis	with chain stered TRADEMARK of Westir	561490 nghouse Air	AA-5349-5 Brake Compan	1 y
pec.	Issued:		Cnog No		

Spec. Issued: 8/20/87 4 Spec.No. 77-LIRR-276
Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89,
4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90
4/11/90, 5/8/90

18 5 Filter, 3/8" OC-1-B 582132 CA85176-14 3 a 1 Choke Fitting 3/32 15473 AA11519 1 19 4 Boogie Air Spring 672359- D0672359, Reservoir 14" x 30" 1000 1000,00 62 a 4 Plug, Pipe 1/2" 512408	ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT. EA.
### W/Locking Handle			Leveling Valve Details			
a 1 Choke Fitting 3/32 15473 AA11519 1 19 4 Boogie Air Spring 672359- D0672359, Reservoir 14" x 30" 1000 1000,00 62 a 4 Plug, Pipe 1/2" 512408 20 2 Valve, 3/8" Check 543326 AA69877-22 2-1/ 21 1 N-1 Reducing Valve 671041-0110 D0671041,0110,000 2.5 4 Test Fittings 589073 A0589073, 00000,0P 1 Electronic Wheel Slide Equipment 23 1 E-7 Decelostat Controller (37.5 Volt) Feature complete with enclosure, connectors, receptacles (intended for inside mounting) 672181 0000,00 35 24 2 D-1 DECELOSTAT Valve (37.5 Volt) 670979 F0670979, (4 Pin Connectors) 70000,00 1 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 2 28 2 Cock, 3/8" Ball, Vented w/Locking	17	3			DA84473-52	1.5
19 4 Boogie Air Spring Reservoir 14" x 30" 1000 1000,00 62 a 4 Plug, Pipe 1/2" 512408 20 2 Valve, 3/8" Check 543326 AA69877-22 2-1/ 21 1 N-1 Reducing Valve 671041-0110 D0671041,0110,000 2.5 4 Test Fittings 589073 A0589073, 0000,0P 1 Electronic Wheel Slide Equipment 23 1 E-7 Decelostat Controller (37.5 Volt) Feature complete with enclosure, connectors, receptacles (intended for inside mounting) 672181 0000,00 35 24 2 D-1 DECELOSTAT Valve (37.5 Volt) (4 Pin Connectors) 670979 F0670979, (4 Pin Connectors) 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 28 2 Cock, 3/8" Ball, Vented w/Locking	18	5	Filter, 3/8" OC-1-B	582132	CA85176-14	3
Reservoir 14" x 30" 1000 1000,00 62 a 4 Plug, Pipe 1/2" 512408 20 2 Valve, 3/8" Check 543326 AA69877-22 2-1/ 21 1 N-1 Reducing Valve 671041-0110 D0671041,0110,000 22 4 Test Fittings 589073 A0589073,	a	1	Choke Fitting 3/32	15473	AA11519	1
20 2 Valve, 3/8" Check 543326 AA69877-22 2-1/ 21 1 N-1 Reducing Valve 671041-0110 D0671041,0110,000 2.5 4 Test Fittings 589073 A0589073,	1,9	4				62
21	a	4	Plug, Pipe 1/2"	512408		
2.5 4 Test Fittings 589073 A0589073, 0000,0P 1 Electronic Wheel Slide Equipment 23 1 E-7 Decelostat Controller (37.5 Volt) Feature complete with enclosure, connectors, receptacles (intended for inside mounting) 672181 0000,00 35 24 2 D-1 DECELOSTAT Valve (37.5 Volt) 670979 F0670979, (4 Pin Connectors) 0000,00 30 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 28 2 Cock, 3/8" Ball, Vented w/Locking	20	2	Valve, 3/8" Check	543326	AA69877-22	2-1/2
22 4 Test Fittings 589073 A0589073, 0000,0P 1 Electronic Wheel Slide Equipment 23 1 E-7 Decelostat Controller (37.5 Volt) Feature complete with enclosure, connectors, receptacles (intended for inside mounting) 672181 0000,00 35 24 2 D-1 DECELOSTAT Valve (37.5 Volt) 670979 F0670979, (4 Pin Connectors) 0000,00 30 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 28 2 Cock, 3/8" Ball, Vented w/Locking	21	1	N-1 Reducing Valve	671041-011	.0 D0671041,0	
Slide Equipment Slide Equipment Slide Equipment	22	4	Test Fittings	589073	-	
(37.5 Volt) Feature complete with enclosure, connectors, receptacles (intended for inside mounting) 672181 0000,00 35 24 2 D-1 DECELOSTAT Valve (37.5 Volt) 670979 F0670979, (4 Pin Connectors) 0000,00 30 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking						
(37.5 Volt) 670979 F0670979, 0000,00 30 25 4 Magnetic Pick-Up 670260 B0670260, 0000,00 1 26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking	23	1	(37.5 Volt) Feature complete with enclosure, conne- receptacles (intended	ctors,		35
26 4 Connector 560150 CA82219 .25 27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking	24	2	(37.5 Volt)	670979	•	30
27 2 Brake Cylinder Pressure Switch 579985 BA83858-0003 -0002 a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking	25	4	Magnetic Pick-Up	670260		1
Pressure Switch 579985 BA83858-0003 -0002 a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking	26	4	Connector	560150	CA82219	.25
a 2 Test Fittings 584627 CA-85062-50 28 2 Cock, 3/8" Ball, Vented w/Locking	27	2			BA83858-000	3
Vented w/Locking	a	2	Test Fittings		CA-85062-50	1
	28	2	Vented w/Locking	576598	DA84473-52	1.5

	Issued:			5	Sp	ec.No.	7:	7-LIRR-27	6
Spec.	Revised:	9/15/87,	2/19/88	, 11/2	8/88,	2/20/	89,	3/14/89,	
		4/13/89,	8/3/89,	10/12	2/89,	12/02/	89,	1/25/90,	2/9/90
		4/11/90,	5/8/90						

ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT. EA.
		Tread Brake Unit Equipm And Parking Brake Deta	ment ails		
29	4	SAB (BFC) Tread Brake Units	672578- 1300	FA85279-60	95
a	4	Brake Shoe Key	564390	BA-81082-4	
30		Reserved			
a	2	SAB (BFC) Tread Brake w Spring Applied Park B. (Left Hand).	7/ 672577 -4304	FA85279-62	130
b	2	SAB (BFC) Tread Brake w Spring Applied Park B. (Right Hand).	672577 -2302	FA85279-62	130
С	4	Brake Shoe Key	564390	BA-81082-4	
31	8	COBRA Brake Shoes	V-236		9
32	1	Parking Brake Magnet Valve (37.5 VDC)	583424	CA85060-59	
33	1	3-Way Cock 3/4 x 3/4 x 1/4 (1/4" NPT vent)	672582	C0672582,000	00,
34	1	Parking Brake Pressure Switch (37.5 VDC)	579607- 0103	BA-83858-3	
a b	1 2	Air Gage Test Fitting	506287 584627	CA-76455-11 CA-85062-50	
		Inboard Mounted Disc Brake Equipment			
35	8	WC-27 Axle-Mounted Disc & Hub Assembly	304388	F0304388	380
36	4	3P Disc Brake Unit Caliper Assembly RH (with Automatic Slack Adjustment Only)	583068	FA84988-57	150
37	4	3P Disc Brake Unit Caliper Assembly LH (with Automatic Slack			
	Regis	Adjustment Only) tered TRADEMARK of Westin	583070 nghouse Air	FA84988-57 Brake Compan	150 Y

Spec. Issued: 8/20/87 6 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90, 5/8/90

TODA	A				ESTIMATED
ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	WGT. EA.
38	4	8" Actuator RH	586052	EA85111-51	60
39	4	8" Actuator LH	586322	EA85111-51	60
		3P Disc Brake Unit-Car Mounting Details			
40	16	Threaded Pin for Actuator	587296	B0587296, 0000,00	1/2
41	8	Piston Pin	581107	CA62341-8	
42	8	Washer	581108		
43	8	Wave Washer	583235		
44	8	Cotter Pin	578716		
45	16	Hanger Arm Pin	585303	AA84988-36	3/4
46	16	2" O.D. Flat Washer	577007		
47	16	5/8" Stop Nut	585542		
48	16	Isolator Bushing	581053	BA84988-10	1/2
49	8	Support Bracket Pin	583925	BA84988-35	2
50	8	Shoulder Bushing	581040	AA84988-13	
51	8	Washer 2" O.D.	583339		
52	8	3/4" Stop Nut	541300		
53	16	Right Hand Brake Shoe	V2601	AV-2601-51	2-3/4
54	16	Left Hand Brake Shoe	V2602	AV-2602-51	2-3/4
55	32	Hanger Arm Bushing	586177	CA75194-3	
56	16	Main Support Bushing	586178	CA75194-3	
57	16	2-1/2" O.D. Disc Spring	581673		
58	8	Shoulder Bushing	587273		
59	16	1-49/64" O.D. Disc Spring	587294		
		Miscellaneous & Air Hose Details			

Spec. Issued: 8/20/87 7 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90. 5/8/90

ITEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	ESTIMATED WGT. EA.
60	8	Air Hose-B.C. (Disc) Line to 8" Actuator	581050	CA78956-109	2-1/2
61	4	Air Hose-Car Body to Truck	581049	CA78956-109	2
62	2	Cock, 3/4" Vented Ball Cutout with Locking Handle (Brake Cylinder)	671374	FA84843	4
53	¹ 1	Salem Drain Valve for Gondola Reservoir	672196- 1000	C0672196, 0000,00	
a	1	1/2" Close Nipple	133135		
54	1	Gondola Reservoir (7" x 26")	672358	D0672358,00	00,00 40
a b c	2 2 4	<pre>l" x l" Flange Fitting, welded, elbow Gasket, l" Flange Screw, 1/2" x 1-3/4" Ca</pre>	578322 93986		1
55	12	1/2" x 24" AAR M618 Hose for Tread Brake Units	672996- 0240	C0672996, 0000,00	
		Coupler Equipment			
56	1	N-2-A Car Coupler (WABCO Part 672703 M-4 Type) w/Walton Electric Portion (121 Contacts WABCO			
		Part 672347)	672342	E0672342,00	-
57	1	Coupler Centering Device	574784	FA84419-3	15
8	1	Cock, 3/8" Ball, vented w/Locking Handle (Coupler Control Box)	576598	DA84473-52	1.5
19		Reserved		5110 117 5 52	1.3
0		Reserved			
1	1	Switch Box	673166	C0673166,00	00.
2	l	Coupler Control Box	672341	E0672341,00	00 00, 80
	Regis	tered TRADEMARK of Westi	nghouse Air	0 Brake Compa) ny

Spec. Issued: 8/20/87 8 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90. 5/8/90

ITEM					ESTIMATED	
TIEM	QUAN	DESCRIPTION	PC.NO.	DWG.NO.	WGT.	EA.
73	1	Cables w/connectors each end	672343	D0672343,00 0	00 20 P	
a	1	Cables w/connectors each end	672446	D0672446,00 0	00, P 20	
74	1	Hose, 1-1/8" x 35" Straight Main Reservoir	673175	D0672581, 0000,S0	-	
75	3	Hose, 3/8" x 24" Straight Uncoupling (Coupler & Coupler Box)	673172- 0240	D0673172, 0000,S0	_	
76	1	Hose, 1-3/8" x 48" Straight Brake Pipe	673176	D0672581, 0000,S02	_	
		B-Car Only				
77	1	Cock, 3/8" Ball, vented w/Locking Handle	576598	DA84473-52	1.5	5

Spec. Issued: 8/20/87 9 Spec.No. 77-LIRR-276 Spec. Revised: 9/15/87, 2/19/88, 11/28/88, 2/20/89, 3/14/89, 4/13/89, 8/3/89, 10/12/89, 12/02/89, 1/25/90, 2/9/90 4/11/90, 5/8/90

NOTES:

1. All WABCO flanged sweat fittings shown in this material list are designed for use with copper tubing conforming to U.S.A. standards. For nominal diameters of tubing the tolerance is:

Nominal Tube Size (Inch)	Tolerance (Inch)
1/8 - 3/8	± 3/64
1/2 - 3/4	± 1/16
1 - 2	± 5/64

- 2. Hose assemblies shown are tentative only and are subject to change to suit installation requirements.
- Fittings, hoses and piping not integral to the unit packages or not specifically listed are not included. Stauff quick disconnect fittings must be supplied by carbuilder where required.
- 4. Pipe sizes and lengths shown on the equipment piping diagram must be adhered to in order to assure specification compliance.
- 5. Piping cleanliness must be insured before operating the brake system to prevent premature failures.
- 6. All pipe threads are American Standard (NPT), with the exception of the SAB Tread Brake Unit connections.
- 7. Air gage or pressure switch test fittings are not included as part of this equipment and must be separately supplied by the carbuilder, except where noted.
- 8. Brake Pipe Cutout Cock before Coupler should be sealed or removed due to safety implications.

PIPING OWG. NO. E0670 945, 1211, 0E