

**CONTROL GEAR**  
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**CONTROL  
GEAR**

# CONTROL GEAR SECTION

(A.E.C. TYPE UNITS)

## TYPES

R214A, R214B, R214C,  
R214D, R214E, R214F

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## CONTROL GEAR TYPES

B.R. Cat. No.	A.E.C. Basic Part No.	Description
	R214A	<b>CONTROL GEAR COMPLETE</b> (Power Car) DTO1/B, 1/2, 1/5, 1/7, 1/11, 1/11B
	R214B	<b>CONTROL GEAR COMPLETE</b> (Trailer Car) DTO1/B, 1/2, 1/5, 1/7, 1/11, 1/11B
	R214C	<b>CONTROL GEAR COMPLETE</b> (Power Car) DTO1/3
	R214D	<b>CONTROL GEAR COMPLETE</b> (Trailer Car) DTO1/3
	R214E	<b>CONTROL GEAR COMPLETE</b> (Power Car) DTO1/6
	R214F	<b>CONTROL GEAR COMPLETE</b> (Power Car) DTO1/20

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B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>RI</b>	<b>CONTROL GEAR COMPLETE ... ..</b>	See Page R.1		
			<b>THROTTLE CONTROLLER COMPLETE ...</b>	All Models	1	
9/15/65000	R7709		Casing, Controller ... ..	"	1	Controller Case
9/15/65001	R32477	1	Stud, $\frac{3}{8}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special ... ..	"	4	
9/15/65002	124-155	2	Bush ... ..	"	1	
9/15/65003	Z1/10147	3	Plunger, Locking ... ..	"	1	
9/15/65004	R1/32408	4	Spring ... ..	"	1	Locking Plunger
9/15/65005	Z1/45442	5	Setscrew, Special ... ..	"	1	
9/15/65006	Z1/47034	6	Washer, $\frac{1}{4}$ " Grover... ..	"	1	
	Z3/30616	7	Plug ... ..	"	1	
9/15/65007	R32467	8	Coupling Connection ... ..	"	1	
9/15/63775	339-999	9	Cover, Controller Case ... ..	"	1	Cover
9/15/65008	R1/32415	11	Setscrew, Special ... ..	"	5	
9/15/65009	Z12/30740	12	Cover, Side ... ..	"	1	Side Cover
9/15/65010	R1/32407	13	Dowel, $\frac{1}{4}$ ", 14 m/m. ... ..	"	2	
9/15/65011	155-96	14	Setscrew, Special ... ..	"	7	
9/15/65012	Z12/30736	15	Washer, $\frac{1}{4}$ " Grover... ..	"	7	
	Z3/30616	15	Bush, Camshaft ... ..	"	3	
9/15/65003	Z1/10147	16	Plug, $\frac{3}{8}$ " Electric Thread ... ..	"	1	
9/15/65013	409-28	17	<b>CAMSHAFT COMPLETE WITH LOCATING PLATE ... ..</b>	"	1	
9/15/65014	R6706	18	<b>CAMSHAFT WITH GEAR</b>	"	1	
			Plate, Locating ... ..	"	1	
9/15/65015	R6707		Rivet, $\frac{1}{4}$ " Dia., Steel, Special ... ..	"	1	
9/15/65016	R32473		Washer, Thrust ... ..	"	2	
9/15/99076	196-1		<b>MOVING CONTACT COMPLETE</b>	"	4	
9/15/65017	Z1/30802	19	Shaft ... ..	"	1	Moving Contact
9/15/65018	V38072	20	Locknut, $\frac{5}{8}$ " B.S.F. ... ..	"	1	
9/15/65019	R10490	21	Distance Piece, $\frac{5}{8}$ " ... ..	"	3	
	90-37	22	Distance Piece, $\frac{3}{8}$ ", Drilled ... ..	"	2	
9/15/65020	Z6/44883	23	Split Pin, $\frac{1}{8}$ " $\times$ $1\frac{3}{8}$ " ... ..	"	2	
9/15/65021	Z7/44852	24	Spring ... ..	"	4	
	100-16	25	Shaft, Intermediate ... ..	"	1	Intermediate Shaft
9/15/65022	Z3/45407	26	Gear ... ..	"	1	
9/15/65023	R12248	27	Bush ... ..	"	1	
9/15/65024	R6704	28	Lever ... ..	"	1	
9/15/65025	R32474		Pin, Locating ... ..	"	2	
9/15/65026	Z1/10146		Washer, Thrust ... ..	"	1	
9/15/65027	R32475		Nut, Plain, $\frac{1}{2}$ " B.S.F. ... ..	"	1	
9/15/65028	D30649		Washer, Grover, $\frac{1}{2}$ " ... ..	"	1	
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	85-36	30				
	135-36	31				

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
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			<b>THROTTLE CONTROLLER—Continued</b>			
			<b>OPERATING SHAFT AND LEVER</b> ...	"	1	
9/15/65030	R7208	32	<b>Spring, Return</b> ... ..	"	1	
9/15/65031	Z45286	33	<b>Anchor, Spring</b> ... ..	"	1	
9/15/65032	G22607		<b>Link</b> ... ..	"	2	Intermediate Shaft
9/15/65033	R10919	34	<b>Pin, Link</b> ... ..	"	2	} Link
9/15/65034	Z1/47033	35	<b>Washer, Plain, <math>\frac{3}{8}</math>"</b> ... ..	"	4	
	I34-4	36	<b>Split, Pin, <math>\frac{3}{32}</math>" x <math>\frac{3}{4}</math>"</b> ... ..	"	2	
	I00-8	37	<b>OPERATING LEVER END AND SHAFT...</b>	"	1	
9/15/65035	R7209	38	<b>Ball, Bakelite, 32 m/m. Dia.</b> ... ..	"	1	
9/15/65036	E11113		<b>Pin, Steel, 12 I.W.G.</b> ... ..	"	1	
	219-56		<b>Bolt, Special</b> ... ..	"	1	} Clamp
9/15/65037	Z13/30702	40	<b>Washer, <math>\frac{1}{4}</math>" Grover...</b> ... ..	"	1	
	Z3/30616	41	<b>Nut, <math>\frac{1}{4}</math>" B.S.F. Plain...</b> ... ..	"	1	
	Z2/32045	42	<b>Key, Woodruff No. 3</b> ... ..	"	1	
	I57-3	43	<b>FIXED CONTACT AND CONTACT BOARD</b> ... ..	"	1	
9/15/65038	R7407	44	<b>Contact, Fixed</b> ... ..	"	4 pr.	
9/15/65039	V38005		<b>Board, Contact</b> ... ..	"	1	
9/15/65040	V17226		<b>Strip, Bonding</b> ... ..	"	1	
9/15/65041	V14106		<b>Block, Contact Board</b> ... ..	"	1	
9/15/65042	V17225		<b>Screw, Ch. Hd., No. 2 B.A. x <math>1\frac{1}{8}</math>"</b> ... ..	"	1	
	I42-63		<b>Nut, Plain, No. 2 B.A.</b> ... ..	"	1	
	I49-3		<b>Washer, Brass, 5-0 m/m.</b> ... ..	"	1	
9/15/65043	I52-9		<b>Washer, Spring, No. 2 B.A.</b> ... ..	"	1	
	I53-11		<b>Screw, Ch. Hd., No. 2 B.A. x <math>1\frac{1}{8}</math>"</b> ... ..	"	2	} Contact Board
9/15/65043	I42-63		<b>Washer, Brass, 5-0 m/m.</b> ... ..	"	2	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>RI</b>	<b>CONTROL GEAR—Continued</b>			
9/15/65045	R7712		<b>GEAR BOX CONTROLLER COMPLETE</b>	Not R214E	} 1	
9/15/65077	R7713		<b>GEAR BOX CONTROLLER COMPLETE...</b>	R214E		
9/15/65046	R1/32409	} 48	Casing, Controller ...	Not R214E	} 1	
9/15/65078	R1/32410		Casing, Controller ...	R214E		
9/15/65047	R1/32411	49	Cover, Top ...	All Models	1	
9/15/65048	Z12/30708	50	Screw, Special ...		8	Top Cover
9/15/65049	R1/32417	51	Cover, Side ...		1	
9/15/65009	Z12/30740	52	Screw, Special ...		8	Side Cover
9/15/65050	Z47614	53	Plug, Special...		1	
9/15/65051	339-997	54	Coupling, Flexible Metallic Tube...		1	
9/15/65003	Z1/10147	55	<b>Bush, <math>\frac{1}{8}</math>" Length</b> ...		1	Direction Selecting Camshaft
9/15/65017	Z1/30802	56	Washer, Thrust ...		1	
9/15/65052	R6709	57	<b>DIRECTION SELECTING CAMSHAFT COMPLETE</b> ...		1	
9/15/65028	D30649		Pin, Locating, 0.092" Dia. $\times \frac{27}{64}$ " ...		4	} Camshaft
9/15/65053	R32479		Plate, Selecting ...		1	
9/15/99076	196-1		Rivet, $\frac{1}{4}$ " Dia., Steel, Special ...		1	
	156-168		Key, $\frac{1}{4}$ " $\times \frac{3}{16}$ " $\times \frac{7}{8}$ " ...		1	
9/15/65054	108-22		Rivet, Copper, $\frac{1}{8}$ " $\times \frac{3}{4}$ ", Csk. ...		1	
9/15/65055	Z7/44853	58	Distance Piece ...		1	
9/15/65056	Z1/10149	59	<b>Bush, <math>1\frac{1}{32}</math>" Length</b> ...		1	Direction Selecting Camshaft
9/15/65057	R7001	60/61	<b>LOCKING LEVER COMPLETE WITH PLUG</b> ...		1	
9/15/65058	R32485	62	Plate, Locking ...		1	
9/15/65059	Z12/30714	63	Screw, Special ...		2	
9/15/65003	Z1/10147	64	<b>Bush, Gear Change Camshaft...</b> ...		1	
9/15/65017	Z1/30802	65	Washer, Thrust ...		1	
9/15/65061	R6710	66	<b>CAMSHAFT, GEAR CHANGE COMPLETE</b>		1	
9/15/65062	R10498		Shaft, Cam ...		1	
9/15/65063	R1/32404		Cam, Hole Drilled 1 Wall Only ...		3	
9/15/65064	R1/32405		Cam, Hole Drilled Through ...		1	
9/15/65065	R32488		Plate, Speed Indicator ...		1	
9/15/65028	D30649		Pin, Locating, 0.092" Dia. $\times \frac{27}{64}$ " ...		3	
9/15/99076	196-1		Rivet, Locating $\frac{1}{4}$ " Dia., Steel, Special ...		2	
9/15/65055	Z7/44853	67	Distance Piece ...		1	
9/15/65068	Z1/10150	68	<b>Bush, Gear Change Camshaft</b> ...		1	
9/15/65069	R1/32402	69	Sleeve, Adaptor ...		1	Top Cover
9/15/65070	R32484	70	Plate ...		1	Selector Lever Plate
9/15/65071	Z14/30720		Screw, Special, Csk. ...		4	
9/15/65072	R2/11262	73	Lever, Gear Change ...		1	
9/15/65073	R32432	74	Screw, Special ...		1	
	157-6	75	Key, Woodruff, No. 6 ...		1	
9/15/65074	R32492	76	Housing, Locking Plunger...		1	} Locking Plunger
9/15/65059	Z12/30714	77	Screw, Special, Csk. ...		6	
9/15/65076	R32466	78	Plunger ...		2	
9/15/65005	Z1/45442	79	<b>Spring</b> ...		2	
	28-51		Bolt, No. 2 B.A. $\times 3\frac{1}{8}$ " ...		2	
	149-14		Nut, Plain, No. 2 B.A. ...		2	
	153-19		Washer, Grover, $\frac{3}{16}$ " ...		2	
9/15/65238	R32414	80	Interlock ...		1	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks	
		<b>RI</b>	<b>CONTROL GEAR—Continued</b>				
			<b>GEAR BOX CONTROLLER—Continued</b>				
			<b>FIXED CONTACT BOARD COMPLETE</b>	All Models			
9/15/65079	R7406	81	Board ... ..	"	1	F.W.D.—Reverse	
9/15/65080	V17227		Contact, Fixed ... ..	"	1		
9/15/65039	V38005		Strip, Bonding ... ..	"	4 prs.	} Contact Board Block	
9/15/65041	V14106		Block ... ..	"	1		
9/15/65081	V17228		Bolt, Ch. Hd., No. 2 B.A. × 1 $\frac{1}{8}$ " ... ..	"	2		
	I42-63		Nut, Plain No. 2 B.A. ... ..	"	2		
	I49-3		Washer, Brass, 5-0 m/m. ... ..	"	2		
	I52-9		Washer, Grover, $\frac{3}{16}$ " ... ..	"	2		
	I53-11			"	1		
9/15/65082	R7408	82	<b>FIXED CONTACT BOARD COMPLETE</b>	"	1		} Gear Change
9/15/65083	V17229		Board ... ..	"	1		
9/15/65039	V38005		Contact, Fixed ... ..	"	4 prs.		} Contact Board Block
9/15/65041	V14106		Strip, Bonding ... ..	"	1		
9/15/65084	499-2495		<b>BONDING CABLE COMPLETE</b>	"	1		
9/15/65081	V17228		Block ... ..	"	1		
	I42-63		Bolt, Ch. Hd., No. 2 B.A. × 1 $\frac{1}{8}$ " ... ..	"	2		
	I49-3		Nut, Plain, No. 2 B.A. ... ..	"	2		
	I52-9		Washer, Brass, 5-0 m/m. ... ..	"	2		
	I53-11		Washer, Grover, $\frac{3}{16}$ " ... ..	"	2		
9/15/65018	V38072	83	<b>MOVING CONTACTS COMPLETE</b>	"	8	} Moving Contacts	
9/15/65085	R10495	84	Shaft ... ..	"	2		
	90-37	85	Locknut, $\frac{5}{8}$ " B.S.F. ... ..	"	2		
9/15/65020	Z6/44883	86	Distance Piece, $\frac{5}{16}$ " ... ..	"	5		
	Z6/30608	87	Washer, Plain, $\frac{3}{8}$ " Dia. ... ..	"	1		
	100-16	88	Split Pin, $\frac{1}{8}$ " × 1 $\frac{3}{8}$ " ... ..	"	4		
9/15/65022	Z3/45407	89	<b>Spring</b> ... ..	"	4		
9/15/65086	R13530	90	Bracket ... ..	"	2		} Contact Board
	I42-63	91	Bolt, No. 2 B.A. × 1 $\frac{1}{8}$ " ... ..	"	2		
	I49-3	92	Nut, Plain, No. 2 B.A. ... ..	"	2		} Contact Board Bracket
	I53-11	93	Washer, Grover, $\frac{3}{16}$ " ... ..	"	2		
	I42-21	94	Screw, No. 2 B.A. × $\frac{5}{16}$ " ... ..	"	2	} Contact Board	
	I42-63		Screw, No. 2 B.A. × 1 $\frac{1}{8}$ " ... ..	"	2		
	I53-11		Washer, Grover, $\frac{3}{16}$ " ... ..	"	2	} 4 Off on R214E	
9/15/65087	41-61		Bolt, $\frac{3}{8}$ " B.S.F. × 1", Special Drilled	Controller R214A/B/C/D/F	3		
	I35-34		Washer, Grover $\frac{3}{8}$ " ... ..	Casing	3		

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65088	373-406	RI 95	<b>CONTROL GEAR</b> —Continued ... ..			
9/15/65089	373-415		<b>ENGINE SPEED INDICATOR, EVERETT</b> <b>EDGECUMBE No. D16944</b> ... ..	R214A/B	1	
9/15/65090	5041-1		<b>ENGINE SPEED INDICATOR, SMITHS</b> <b>RMC 58/1</b> ... ..	R214C/D/F		
9/15/65091	V1/5107	R4	<b>AIR PRESSURE GAUGE, BUDENBURG</b> <b>No. P2832</b> ... ..	"	1	
9/15/65092	V5026	1	<b>CONTROL PANEL COMPLETE</b> ... ..	R214A/B/C/D/F	2	
9/15/65093	V1/14506	2	<b>SIDE SUPPORT AND HANK BUSH</b> ... ..	"	2	
9/15/65094	V1/14507	3	Strip, Support, Button, 2 Holes ... ..	"	4	Length 6" with 2 Holes $\frac{29}{32}$ "
		4	Strip, Support, Button, 1 Hole ... ..	"	1	Length 6" with 1 Hole $\frac{29}{32}$ "
	145-18	4	Screw, Csk., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	20	Stop Switch
	149-14	5	Nut, Plain, No. 2 B.A. ... ..	"	20	Support Strip
	153-19	6	Washer, Grover, No. 2 B.A. ... ..	"	20	
9/15/65095	V15734	7	Bracket, Support Lamp, Holder ... ..	"	4	
	145-18	8	Screw, Csk., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	16	Lampholder Bracket
	149-14	9	Nut, Plain, No. 2 B.A. ... ..	"	16	
	153-19	10	Washer, Grover, No. 2 B.A. ... ..	"	16	
9/15/63794	339-1327	11	Holder, Lamp, "Bill" Switchgear L.H.15 ... ..	"	12	
	147-31	12	Screw, Rd. Hd., No. 5 B.A. $\times \frac{3}{8}$ " ... ..	"	24	
	149-17	13	Nut, Plain, No. 5 B.A. ... ..	"	24	
	153-22	14	Washer, Grover, No. 5 B.A. ... ..	"	24	
9/15/63795	416-364	15	<b>Bulb, 35 V., 6 W., S.B.C., Double Contact</b> ... ..	"	12	
9/15/63777	546-1198	16	<b>Switch, Press Button, C.A.V. No. 108-3</b> ... ..	"	9	
	143-18	17	Screw, Ch. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	18	
	153-19	18	Washer, Grover, No. 2 B.A. ... ..	"	18	
9/15/65096	V16422	19	Plate, Cover ... ..	"	1	
9/15/65097	V7518	20	<b>SUPPORT PLATE COMPLETE</b> ... ..	"	4	
9/15/65098	Z17/30793	21	Screw, Special ... ..	"	16	
	Z4/30698		Washer, 2 B.A., Grover ... ..	"	16	
	149-14		Nut, Plain, No. 2 B.A. ... ..	"	16	
9/15/65099	Z110657	22	Bush, Blue ... ..	"	4	
9/15/65100	Z10658	23	Bush, Off White ... ..	"	8	
9/15/65101	Z12/30741		Screw, Special ... ..	"	2	
	Z4/30690		Washer, $\frac{1}{2}$ " Thackray ... ..	"	2	
9/15/65102	V1/5122		<b>INSTRUMENT PANEL COMPLETE</b> ... ..	R214E	1	
9/15/65103	V16425		Panel ... ..	"	1	
9/15/65089	373-415		<b>ENGINE SPEED INDICATOR, SMITHS</b> <b>RMC 58/1</b> ... ..	"	1	
9/15/65104	Z13/30712		Bolt, Special ... ..	"	4	
	85-32		Nut, Plain, $\frac{1}{4}$ " B.S.F. ... ..	"	4	
	153-17		Washer, Grover, No. 0 B.A. ... ..	"	4	
9/15/63794	339-1327		Lampholder, "Bill" Switchgear No. L.H.15 ... ..	"	5	
	147-31		Screw, Rd. Hd., No. 5 B.A. $\times \frac{3}{8}$ " ... ..	"	10	
	149-17		Nut, Plain, No. 5 B.A. ... ..	"	10	
	153-22		Washer, Grover, No. 5 B.A. ... ..	"	10	
9/15/63795	416-364		<b>Bulb, 35 V., 6 W., S.B.C., Double Contact</b> ... ..	"	5	
9/15/65382	5041-2		<b>Air Pressure Gauge, Budenburg</b> ... ..	"	1	
9/15/65105	Z12/30721		Screw, Special ... ..	"	3	
	149-14		Nut, Plain, No. 2 B.A. ... ..	"	3	
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	3	
9/15/65106	V1/5123		<b>ENGINE CONTROL PANEL COMPLETE</b> ... ..	"	1	
9/15/63792	546-1390		<b>Change-Over Switch, Bulgin 5603/PD</b> ... ..	"	1	R.P.M.
9/15/63793	546-1391		<b>Switch, Bulgin 5602/PD</b> ... ..	"	1	Panel Lights
9/15/65107	339-1375		<b>Signal Lamp Fitting, Bulgin D133/G—Blue</b> ... ..	"	19	
9/15/65108	416-371		<b>Bulb, 32 V., 2-8 W.</b> ... ..	"	19	
9/15/63788	546-1393		<b>Push Button, C.A.V. No. 108/43</b> ... ..	"	2	Start
9/15/63789	546-1394		<b>Push Button, C.A.V. No. 108/4</b> ... ..	"	1	Stop
	146-12		Screw, Rd. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	6	
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	6	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks	
		<b>R4</b>	<b>CONTROL GEAR—Continued</b>				
9/15/65110	V7521		<b>ELECTRIC PNEUMATIC VALVE COMPLETE</b> ... ..	R214A	} 1		
9/15/65111	V7519		<b>ELECTRIC PNEUMATIC VALVE COMPLETE</b> ... ..	R214C/E/F			
9/15/65112	V7504	24	<b>VALVE CASING WITH STIFFENERS</b> ...	R214A/C/E/F	1	Not supplied as Spares	
	V38050		Casing, Bare ... ..	"	1		
9/15/65113	Z7/30570	25	Stud, Special, $\frac{7}{16}$ " B.S.F. $\times 4\frac{1}{2}$ " ... ..	"	1		
	90-34		Locknut, $\frac{7}{16}$ " B.S.F. ... ..	"	1		
9/15/65114	V38043	26	Bar, Locating ... ..	"	6		
9/15/65115	112-72	27	Rivet, Iron, Csk., $\frac{1}{8}$ " $\times \frac{1}{2}$ " ... ..	"	12		
9/15/65051	339-997	28	Coupling, Flexible Metallic Tube ... ..	"	1		
9/15/65116	V38045		Number Plate ... ..	R214C/E/F	5		} 6 off } On R214A 12 off }
9/15/65117	107-4		Rivet, Brass, Snap Hd., $\frac{3}{32}$ " $\times \frac{9}{32}$ " ... ..	"	10		
9/15/65118	V38052	29	Cover ... ..	R214A/C/E/F	1		} Valve Casing
9/15/65119	Z51738	30	<b>Felt Seal, 8<math>\frac{1}{8}</math>" Long</b> ... ..	"	2		
9/15/65120	Z51739	31	<b>Felt Seal, 19<math>\frac{3}{8}</math>" Long</b> ... ..	"	2		
9/15/65121	V38044	32	Boss, Thumb Screw ... ..	"	1		
9/15/65122	114-188	33	Rivet, Snap Hd., $\frac{3}{32}$ " $\times \frac{5}{8}$ ", Mild Steel ... ..	"	4		
9/15/65123	A74103	34	Nut, Special ... ..	"	1		
9/15/65124	Z48801	35	Circlip, A.E.C. Special ... ..	"	1		
9/15/65125	V38051	36	Block, Manifold ... ..	"	1		
9/15/65126	Z1/44569	37	Plug, Special ... ..	"	5		
	117-83	38	Screw, Csk., $\frac{5}{16}$ " B.S.F. $\times \frac{3}{4}$ " ... ..	"	3		
9/15/65127	124-158	39	Stud, $\frac{3}{8}$ " B.S.F. $\times 1\frac{7}{8}$ ", Special ... ..	"	4		
	85-34	40	Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4		
	135-34	41	Washer, Grover, $\frac{3}{8}$ " ... ..	"	4		
9/15/65128	Z3/10201	42	<b>Bush</b> ... ..	R214C/E/F	10	} 12 off on R.214A	
9/15/65129	V38006	43	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	R214A/C/E/F	1		
9/15/65130	V38007	44	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	4	"Off" Type } B.T.H. Drg.	
9/15/65131	Z51740	45	<b>Gasket, B.T.H. X1216778-12</b> ... ..	"	1	"On" Type } W. 136.Z147	
						"Off" Type } Valves and Blanking Plates	
9/15/65132	Z51741	46	<b>Gasket, B.T.H. X1216778-1</b> ... ..	"	5	"On" Type }	
9/15/65133	Z12/30763	47	Bolt, Special, $\frac{3}{8}$ " B.S.F. $\times 2\frac{1}{4}$ ", Drilled ... ..	"	2		
9/15/65134	Z12/30760	48	Bolt, Special, $\frac{3}{8}$ " B.S.F. $\times 2\frac{1}{2}$ ", Drilled ... ..	"	8		
9/15/35459	Z11/30783		Bolt, Special, $\frac{3}{8}$ " B.S.F. $\times 1\frac{1}{2}$ ", Drilled ... ..	"	2		
	Z4/30696	49	Washer, Special ... ..	"	12		
9/15/65135	331-49	50	Plug, $\frac{3}{8}$ " Gas ... ..	"	2		
9/15/65136	331-48	51	Plug, $\frac{1}{4}$ " Gas ... ..	"	6		
9/15/65137	V38046		Blanking Plate ... ..	"	1		
9/15/65138	V38036		Support ... ..	R214C/E/F	} 1	} Control Wiring	
9/15/65139	V38094		Support ... ..	R214A			

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65140	V7520	R4	<b>CONTROL GEAR—Continued</b>			
			<b>ELECTRIC PNEUMATIC VALVE COMPLETE</b> ... ..			
9/15/65112	V7504	52	<b>VALVE CASING WITH STIFFENER</b> ... ..	R214A/C/E/F	1	
	V38050		Casing, Bare ... ..	"	1	
9/15/65113	Z7/30570	53	Stud, Special, $\frac{7}{16}$ " B.S.F. $\times 4\frac{1}{8}$ "	"	1	Not supplied as Spares
	90-34		Locknut, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65114	V38043	54	Bar, Locating ... ..	"	1	
9/15/65115	112-72	55	Rivet, Iron, Csk., $\frac{1}{8}$ " $\times \frac{1}{2}$ " ... ..	"	6	
9/15/65051	339-997	56	Coupling, Flexible Metallic Tube ... ..	"	12	
9/15/65116	V38045		Number Plate ... ..	"	1	
9/15/65117	107-4		Rivet, Brass, Snap Hd., $\frac{3}{32}$ " $\times \frac{9}{32}$ " ... ..	"	4	
9/15/65118	V38052	57	Cover ... ..	"	8	
9/15/65119	Z51738	58	<b>Felt Seal, <math>8\frac{1}{8}</math>" Long</b> ... ..	"	1	
9/15/65120	Z51739	59	<b>Felt Seal, <math>19\frac{3}{8}</math>" Long</b> ... ..	"	2	
9/15/65121	V38044	60	Boss, Thumb Screw ... ..	"	2	
9/15/65122	114-188	61	Rivet, Snap Hd., $\frac{5}{32}$ " $\times \frac{5}{8}$ ", Mild Steel	"	1	
9/15/65123	A74103	62	Nut, Special ... ..	"	4	
9/15/65124	Z48801	63	Circlip, A.E.C., Special ... ..	"	1	
9/15/65141	V38073	64	Block, Manifold ... ..	"	1	
9/15/65126	Z1/44569	65	Plug, Special... ..	"	1	
	117-83	66	Screw, Csk., $\frac{5}{16}$ " B.S.F. $\times \frac{3}{4}$ " ... ..	"	5	
9/15/65127	124-158	67	Stud, $\frac{3}{8}$ " B.S.F. $\times 1\frac{7}{8}$ ", Special	"	3	
	85-34	68	Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4	
	135-34	69	Washer, Grover, $\frac{3}{8}$ " ... ..	"	4	
9/15/65128	Z3/10201	70	<b>Bush</b> ... ..	"	4	
9/15/65130	V38007	71	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	8	
			<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	4	
9/15/65137	V38046	72	Blanking Plate ... ..	"	1	"On" Type B.T.H. Drg. W.1362147
9/15/65240	V38047		Blanking Plate ... ..	"	1	
9/15/65131	Z51740	73	<b>Gasket, B.T.H. X1216778-12</b> ... ..	"	1	
9/15/65132	Z51741	74	<b>Gasket, B.T.H. X1216778-1</b> ... ..	"	1	"On" Type } Valves and Blanking Plates
9/15/65134	Z12/30760	75	Bolt, Special, $\frac{3}{8}$ " B.S.F. $\times 2\frac{1}{4}$ ", Drilled	"	5	
9/15/35459	Z11/30783		Bolt, Special, $\frac{3}{8}$ " B.S.F. $\times 1\frac{1}{2}$ ", Drilled	"	8	
	Z4/30696	76	Washer, Special ... ..	"	4	
9/15/65135	331-49	77	Plug, $\frac{3}{8}$ " Gas ... ..	"	12	
9/15/65136	331-48	78	Plug, $\frac{1}{4}$ " Gas ... ..	"	2	
9/15/65434	V38089		Support ... ..	"	6	
				"	1	Control Wiring

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>CONTROL GEAR—Continued</b>			
			<b>CONDUITS AND FITTINGS ...</b>	R214C/D		
				R214C		
	404-8		Conduit, 2" ...		140 ft.	
	404-7		Conduit, 1 1/2" ...	"	28 ft.	
	404-6		Conduit, 1 1/4" ...	"	7 ft.	
	404-5		Conduit, 1" ...	"	7 ft.	
	404-4		Conduit, 3/4" ...	"	42 ft.	
	404-3		Conduit, 5/8" ...	"	1 ft.	
	410-19		Tee, Inspection, 2" ...	"	6	
	410-18		Tee, Inspection, 1 1/2" ...	"	6	
	410-45		Tee, Inspection, 1" ...	"	1	
	410-15		Tee, Inspection, 3/4" ...	"	5	
	408-16		Elbow, Inspection, 2" ...	"	6	
	408-17		Elbow, Inspection, 1 1/4" ...	"	2	
	410-48		Elbow, Inspection, 1" ...	"	2	
	408-12		Elbow, Inspection, 3/4" ...	"	5	
	410-42		Coupler, Solid, 2" ...	"	20	
	410-64		Coupler, Solid, 1 1/2" ...	"	3	
	410-63		Coupler, Solid, 1 1/4" ...	"	3	
	410-43		Coupler, Solid, 1" ...	"	2	
	410-62		Coupler, Solid, 3/4" ...	"	7	
	409-20		Backnut, 2" ...	"	55	
	409-19		Backnut, 1 1/2" ...	"	10	
	409-18		Backnut, 1 1/4" ...	"	10	
	409-17		Backnut, 1" ...	"	6	
	409-16		Backnut, 3/4" ...	"	23	
	409-24		Backnut, 5/8" ...	"	2	
	407-48		Bush, Brass Ring, 2" ...	"	20	
	407-46		Bush, Brass Ring, 1 1/2" ...	"	5	
	407-43		Bush, Brass Ring, 1 1/4" ...	"	8	
	407-42		Bush, Brass Ring, 1 1/8" ...	"	2	
	407-44		Bush, Brass Ring, 1" ...	"	1	
	407-45		Bush, Brass Ring, 1 1/4" ...	"	3	
	407-38		Bush, Brass, Male, 2" ...	"	3	
	407-35		Bush, Brass, Male, 1 1/4" ...	"	6	
	407-34		Bush, Brass, Male, 1" ...	"	5	
	407-33		Bush, Brass, Male, 3/4" ...	"	4	
	409-10		Socket, Reducing, 1 1/4" x 3/4" ...	"	3	
	410-58		Socket, Reducing, 1 1/2" x 3/4" ...	"	4	
	409-6		Socket, Reducing, 1 1/2" x 1" ...	"	2	
	409-3		Socket, Reducing, 1 1/2" x 1 1/4" ...	"	3	
	409-5		Socket, Reducing, 2" x 1 1/4" ...	"	5	
	409-4		Socket, Reducing, 2" x 1 1/2" ...	"	2	
	409-7		Socket, Reducing, 2" x 1" ...	"	3	
	409-1		Socket, Reducing, 1" x 3/4" ...	"	2	
	409-8		Socket, Reducing, 3/4" x 5/8" ...	"	3	
	409-2		Socket, Reducing, 1 1/4" x 1" ...	"	2	
	410-55		Nipple, 2" ...	"	1	
	410-57		Nipple, 3/4" ...	"	3	
	406-47		Box, Connection, 6" x 6" x 3" ...	"	2	
	V7532		<b>CONNECTION BOX COMPLETE ...</b>	"	2	
	471-9		Tubing, Metallic, 1 1/4" ...	"	1	
	471-15		Tubing, Metallic, 1" ...	"	2	
	499-2472		Tubing, Metallic, 3/4" ...	"	2' 6"	
	410-59		Adaptor, 3/4" ...	"	4	
	410-60		Adaptor ...	"	2	
	410-61		Adaptor ...	"	2	
	410-49		Adaptor, Male ...	"	4	
	404-8		Conduit, 2" ...	R214D	126 ft.	
	408-16		Elbow, Inspection, 2" ...	"	6	
	410-30		Coupler, Running, 2" ...	"	16	
	409-20		Backnut, 2" ...	"	25	
	409-18		Backnut, 1 1/4" ...	"	1	
	407-48		Bush, Brass Ring, 2" ...	"	13	
	407-35		Bush, Brass, Male, 1 1/4" ...	"	2	
	407-33		Bush, Brass, Male, 3/4" ...	"	2	



B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R5</b>	<b>CONTROL GEAR—Continued</b>			
			<b>THROTTLE MOTOR COMPLETE ...</b>			
9/15/65142	R3102		Body ...	R214A/C/E/F	2	A.E.C. Type
9/15/65143	R32401	1	Cover, End ...	"	2	
9/15/65144	R32402	2	Stud, $\frac{3}{8}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special	"	2	
9/15/37546	124-1155	3	Nut, Plain, $\frac{3}{8}$ " B.S.F.	"	12	} End Cover
	85-34	4	Washer, Grover, $\frac{3}{8}$ "	"	12	
	135-34	5	Plug, Breather	"	12	
9/15/65145	Z47612	6	Gland	"	2	} Gland
9/15/65146	R32403	7	Packing	"	2	
9/15/65147	R32404	8	Stud, $\frac{5}{16}$ " B.S.F. $\times$ $1\frac{5}{8}$ ", Special	"	2	} Gland
9/15/65148	124-1127	9	Locknut, $\frac{5}{16}$ " B.S.F.	"	4	
	90-32	10	Cylinder, Centre	"	8	} Outer Inner
9/15/65149	D40702	11	Stop Plate	"	2	
9/15/95198	D26903	12	Stop Plate	"	2	} Outer Inner
9/15/65150	D26904	13	Cylinder, End	"	2	
9/15/95186	D40703	14	Stud, Special	"	2	} End Cylinder
9/15/65151	Z6/30577	15	Nut, Plain, $\frac{5}{16}$ " B.S.F.	"	12	
	85-33	16	Washer, Grover, $\frac{5}{16}$ "	"	12	
9/15/65152	D40606	17	Piston, Operating	"	12	} End Cylinder
9/15/65153	Z2/10286	18	Bush	"	2	
9/15/65154	D40604	19	Piston, Intermediate	"	2	} End Cylinder
9/15/65155	D40602	20	Piston, End	"	2	
9/15/95208	G27223	21	Cup Washer	"	2	} End Cylinder
9/15/95201	R10603	22	Spring, Return	"	10	
9/15/65156	81-1994	23	Adaptor Valve	"	2	} Tecaletit Y.28275 (Mod.)
9/15/65157	138-165	24	Washer, Copper, $\frac{3}{16}$ " $\times$ $1$ " $\times$ $\frac{3}{32}$ "	"	6	
9/15/65158	81-2159	25	Adaptor, $\frac{3}{8}$ " B.S.F. $\times$ $\frac{1}{8}$ " B.S. Pipe	"	6	} Lubricator
9/15/32177	43-95		Bolt, $\frac{1}{2}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special, Drilled	"	8	
9/15/65159	43-103		Bolt, $\frac{1}{2}$ " B.S.F. $\times$ $2\frac{1}{2}$ ", Special, Drilled	R214C/E	} 8	} Throttle Motor to Frame
	85-36		Nut, Plain, $\frac{1}{2}$ " B.S.F.	R214F		
	135-36		Washer, Grover, $\frac{1}{2}$ "	R214C/E/F	8	} Throttle Motor to Frame
9/15/65160	R10920		Link	"	8	
9/15/65161	R10929	26	Link	R214A/C/E	} 4	} Link
9/15/65162	Z1/47036	27	Pin	R214F		
	100-11	28	Split Pin, $\frac{3}{32}$ " $\times$ $1$ "	R214A/C/E/F	4	} Link
9/15/65163	R32497	29	Lever, Adjustable	"	8	
9/15/65164	R32407	30	Boss	"	2	} Adjustable Lever
9/15/65165	R1/32414		Clamp	R214A	2	
9/15/65166	39-5		Bolt, $\frac{1}{4}$ " B.S.F. $\times$ $1\frac{1}{4}$ ", Special, Drilled	R214C/E/F	2	} Adjustable Lever
	85-32		Nut, Plain, $\frac{1}{4}$ " B.S.F.	"	2	
	135-32		Washer, Grover, $\frac{1}{4}$ "	"	2	} Adjustable Lever
9/15/65167	Z3/32013	31	Nut, Special, $\frac{1}{2}$ " B.S.F.	"	2	
9/15/65168	Z30316	32	Cotter, Special	"	4	} Adjustable Lever
	85-32	33	Nut, Plain, $\frac{1}{4}$ " B.S.F.	R214A	2	
	135-32	34	Washer, Grover, $\frac{1}{4}$ "	"	2	} Adjustable Lever
9/15/65169	R2/1212		CROSS SHAFT COMPLETE	"	2	
9/15/65170	R2/1219	35	CROSS SHAFT COMPLETE	"	2	} Adjustable Lever
9/15/65171	R2/1224		CROSS SHAFT COMPLETE	R214C/E	2	
	157-2		Key, Woodruff, No. 2	R214F	2	} Adjustable Lever
9/15/65172	R32409	36	Trunnion	R214C/E/F	2	
	100-11	37	Split Pin, $\frac{3}{32}$ " $\times$ $1$ "	R214A/C/E/F	2	} Adjustable Lever
				"	4	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R5</b>	<b>CONTROL GEAR—Continued</b>			
9/15/65173	R6406	38	<b>CROSS SHAFT BRACKET COMPLETE ...</b>	R214A	2	
9/15/65174	R6405		<b>TUBE AND BOSS COMPLETE ...</b>	"	2	
9/15/65175	Z10232	39	<b>Bush ...</b>	"	4	
9/15/65176	R6408		<b>CROSS SHAFT BRACKET PLATE AND TUBE COMPLETE ...</b>	R214C/E	2	
9/15/65177	R6412	38	<b>CROSS SHAFT BRACKET PLATE AND TUBE COMPLETE ...</b>	R214F	4	
9/15/65175	Z10232	39	<b>Bush ...</b>	R214C/E/F	4	
9/15/65158	81-2159	40	Adaptor, Lubricator, $\frac{3}{8}$ " B.S.F. x $\frac{1}{2}$ " B.S. Pipe	R214A	2	
9/15/65178	41-62	41	Bolt, $\frac{3}{8}$ " B.S.F. x $\frac{1}{2}$ " Special, Drilled	"	6	} 4 off on R214C/E
	85-34	42	Nut, Plain, $\frac{3}{8}$ " B.S.F.	"	6	
	135-34	43	Washer, Grover, $\frac{3}{8}$ "	"	6	
9/15/65179	Z8/30701		Bolt, Special, $\frac{3}{8}$ " B.S.F. x $\frac{1}{2}$ " Drilled	R214F	4	
	86-34		Nut, Slotted, $\frac{3}{8}$ " B.S.F.	"	4	
	134-4		Washer, Plain, $\frac{3}{8}$ "	"	4	
	100-51		Split Pin, $\frac{1}{16}$ " B.S.F. x $\frac{1}{2}$ "	"	4	
9/15/65180	R3/11366	} 44	Rod	R214A	} 2	} To Fuel Pump
9/15/65181	R3/11371		Rod	R214C/E/F/		
9/15/65182	Z3/44849	45	Distance Piece	R214A/C/E/F	2	
9/15/65183	Z1/45467	46	<b>Spring ...</b>	"	2	
	90-34	47	Locknut, $\frac{3}{8}$ " B.S.F.	"	4	
9/15/65184	R17118	48	Fork End	"	2	} Fuel Pump Rod
	90-32	49	Locknut, $\frac{3}{8}$ " B.S.F.	"	2	
9/15/65185	Z49313	50	Pin	"	2	
	86-32	51	Nut, Slotted, $\frac{3}{8}$ " B.S.F.	"	2	
	100-4	52	Split Pin, $\frac{1}{16}$ " x $\frac{1}{2}$ "	"	2	
9/15/46829	R1468		<b>FUEL PUMP LEVER COMPLETE</b>		2	
	R2/11286	53	Lever		2	} Not supplied as Spares
9/15/46830	Z2/10299	54	<b>Bush ...</b>		2	
9/15/46831	39-3	56	Bolt, $\frac{1}{2}$ " B.S.F. x $\frac{1}{2}$ " Special, Drilled		2	
	85-32	57	Nut, Plain, $\frac{1}{2}$ " B.S.F.		2	
	135-32	58	Washer, Grover, $\frac{1}{2}$ "		2	
	Z45298	59	<b>Spring, Pull-Off</b>		2	
9/15/65158	81-2159		Adaptor, Lubricator, $\frac{3}{8}$ " B.S.F. x $\frac{1}{2}$ " B.S. Pipe	R214C/E/F	10	} Fibre
9/15/65186	Z44919		Washer, Special, $\frac{3}{8}$ " x $\frac{1}{2}$ "		10	
9/15/65187	81-1050		Lubricator, Tecalemit Drg. No. N4570E	R214A/C/E/F	10	
9/15/63555	81-320		Adaptor, $\frac{3}{8}$ " Gas	"	10	
9/15/63551	81-265		Locknut	"	10	
9/15/46619	81-264		Nut, Union, Tecalemit CL17C	R214A	12	} 20 off on R214C/E/F
9/15/46582	81-260		Olive, Tecalemit 100E4	"	12	
9/15/63548	216-573		Pipe, "Bundy" Steel, $\frac{3}{8}$ " O.D.	"	} 40 ft.	} 35 ft. on R214C/E/F } Alternatives
9/15/63549	216-282		Pipe, Steel, $\frac{3}{8}$ " O.D. x 18 L.W.G. I.D.	"		
9/15/65188	81-263		<b>ELBOW BASE COMPLETE</b>		8	
9/15/65189	81-268		Base	"	8	
9/15/65190	81-267		Adaptor	"	8	
9/15/65191	81-266		Connection	"	8	
9/15/46619	81-264		Nut, Union, Tecalemit CL17C	"	8	
9/15/46582	81-260		Olive, Tecalemit 100E4	"	8	
9/15/65192	411-190		Clip, S-Way	R214A/C/E/F	2	
9/15/65193	411-117		Clip, I-Way	R214C/E/F	8	
	143-15		Screw, Ch. Hd., No. 2 E.A. x $\frac{1}{2}$ "	R214A	2	} 10 off on R214C/E/F
	149-14		Nut, Plain, No. 2 E.A.	"	2	
	153-19		Washer, Grover, No. 2 E.A.	"	2	
<p><b>NOTE:—For Fuel Pump Lever and Fittings see also Engine Section, No. A51, page A.7</b></p>						

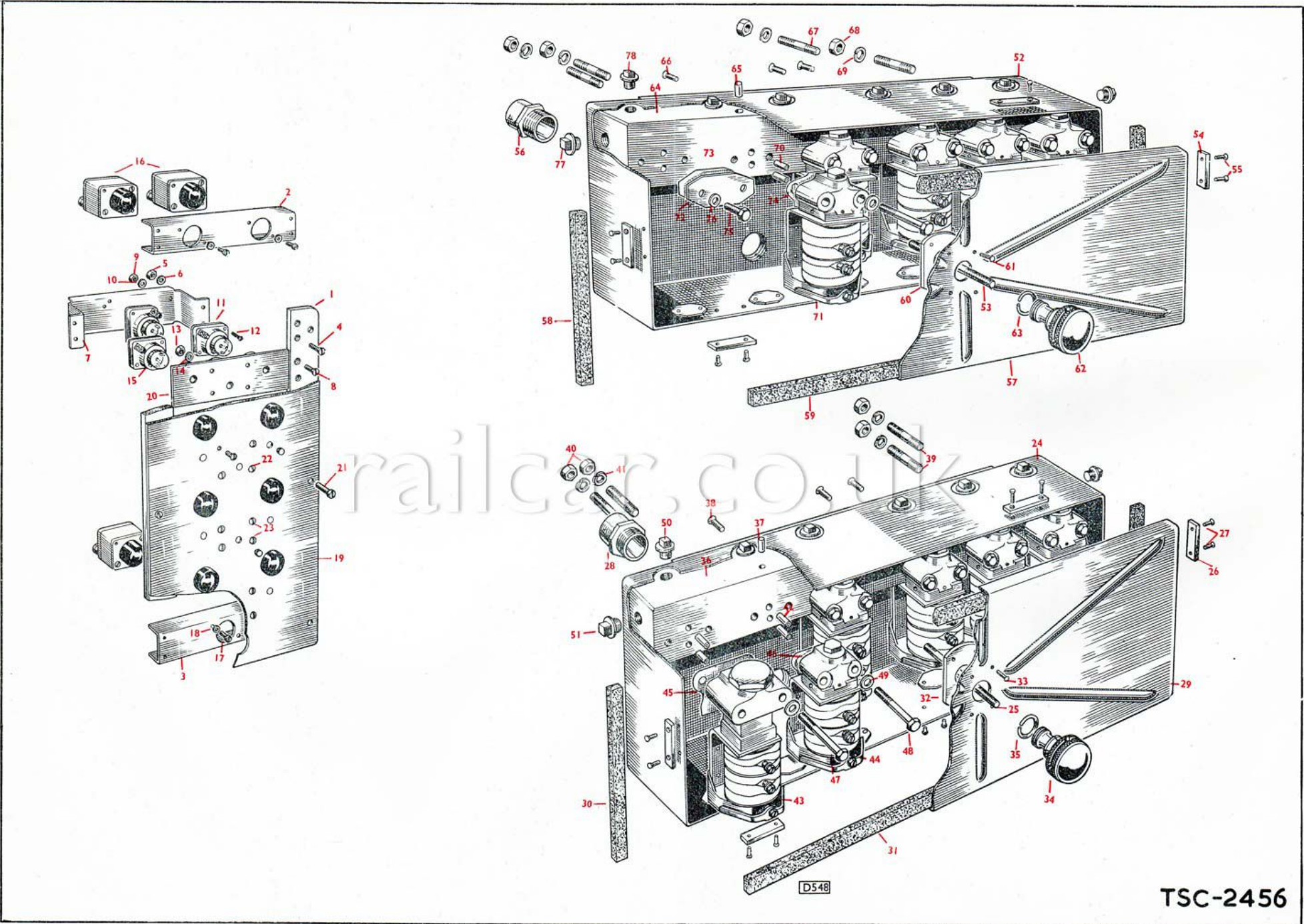
B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65194	5046-2		<b>CONTROL GEAR—Continued</b>			
			<b>SOLENOID COMPLETE, BRITISH THERMOSTAT No. JS2089</b> ... ..	R214A	2	
9/15/56763	39-2		Bolt, $\frac{1}{4}$ " B.S.F. $\times \frac{7}{8}$ ", Special, Drilled	"	4	} Solenoid to Bracket
	90-152		Locknut, $\frac{1}{4}$ " B.S.F., "Simmonds" No. NP-F082	"	4	
9/15/65195	R13540		Bracket ... ..	"	2	
9/15/65087	41-61		Bolt, $\frac{3}{8}$ " B.S.F. $\times 1$ ", Special, Drilled	"	6	} Bracket
	85-34		Nut, Plain, $\frac{3}{8}$ " B.S.F.	"	6	
	135-34		Washer, Grover, $\frac{3}{8}$ "	"	6	
9/15/65196	R3/11213		Lever ... ..	"	2	Solenoid
9/15/65197	R3/11369		Rod, Operating ... ..	"	2	
9/15/65198	Z51765		Fork End, Length $2\frac{3}{4}$ " (Sliding End) ... ..	"	2	} Operating Rod
9/15/65199	139-41		Fork End, Length $1\frac{3}{4}$ " ... ..	"	2	
	90-32		Locknut, $\frac{5}{16}$ " B.S.F.	"	4	
9/15/65200	Z47228		Pin, Length 20 m/m., Special	"	2	
9/15/45546	141-16		Pin, Length $\frac{1}{4}$ " $\times 18$ m/m., Special	"	2	
	Z4/30691		Washer, $\frac{1}{4}$ " Bright Steel	"	2	
	100-5		Split Pin, $\frac{5}{64}$ " $\times \frac{5}{8}$ "	"	4	
	Z45239		<b>Spring, Pull Off</b> ... ..	"	2	
9/15/65201	R7611		<b>ANCHOR BRACKET COMPLETE</b> ... ..	"	2	Pull Off Spring
	121-103		Setscrew, $\frac{1}{4}$ " B.S.F. $\times \frac{3}{8}$ "	"	4	} Anchor Bracket
	135-32		Washer, Grover, $\frac{1}{4}$ "	"	4	
9/15/65202	Z43497		Stop Screw, Special	"	2	} Fuel Pump Lever
9/15/33075	Z2/32047		Nut, Special	"	2	
9/15/65203	499-3030		<b>SOLENOID COMPLETE, C.A.V. No. WN62-2221</b> ... ..	R214/C/E/F	2	
	121-104		Setscrew, $\frac{1}{4}$ " B.S.F. $\times \frac{3}{8}$ "	"	4	} Solenoid to Bracket
	85-32		Nut, Plain, $\frac{1}{4}$ " B.S.F.	"	4	
	135-32		Washer, Grover, $\frac{1}{4}$ "	"	4	
9/15/65204	Z51766		Bracket ... ..	"	2	
	121-103		Setscrew, $\frac{1}{4}$ " B.S.F. $\times \frac{5}{8}$ "	"	4	} Bracket
	135-32		Washer, Grover, $\frac{1}{4}$ "	"	4	
9/15/45540	R17125		Fork End ... ..	"	2	Solenoid
	90-31		Locknut, $\frac{1}{4}$ " B.S.F.	"	2	
9/15/45546	141-16		Pin, Special, $\frac{1}{4}$ " Dia. $\times 18$ m/m.	"	2	} Fork End
	100-5		Split Pin, $\frac{5}{64}$ " $\times \frac{5}{8}$ "	"	2	
9/15/65205	5110-1		<b>FLOAT SWITCH COMPLETE, MOBREY TYPE S01A/F02A</b> ... ..	R21A/C/E/F	2	

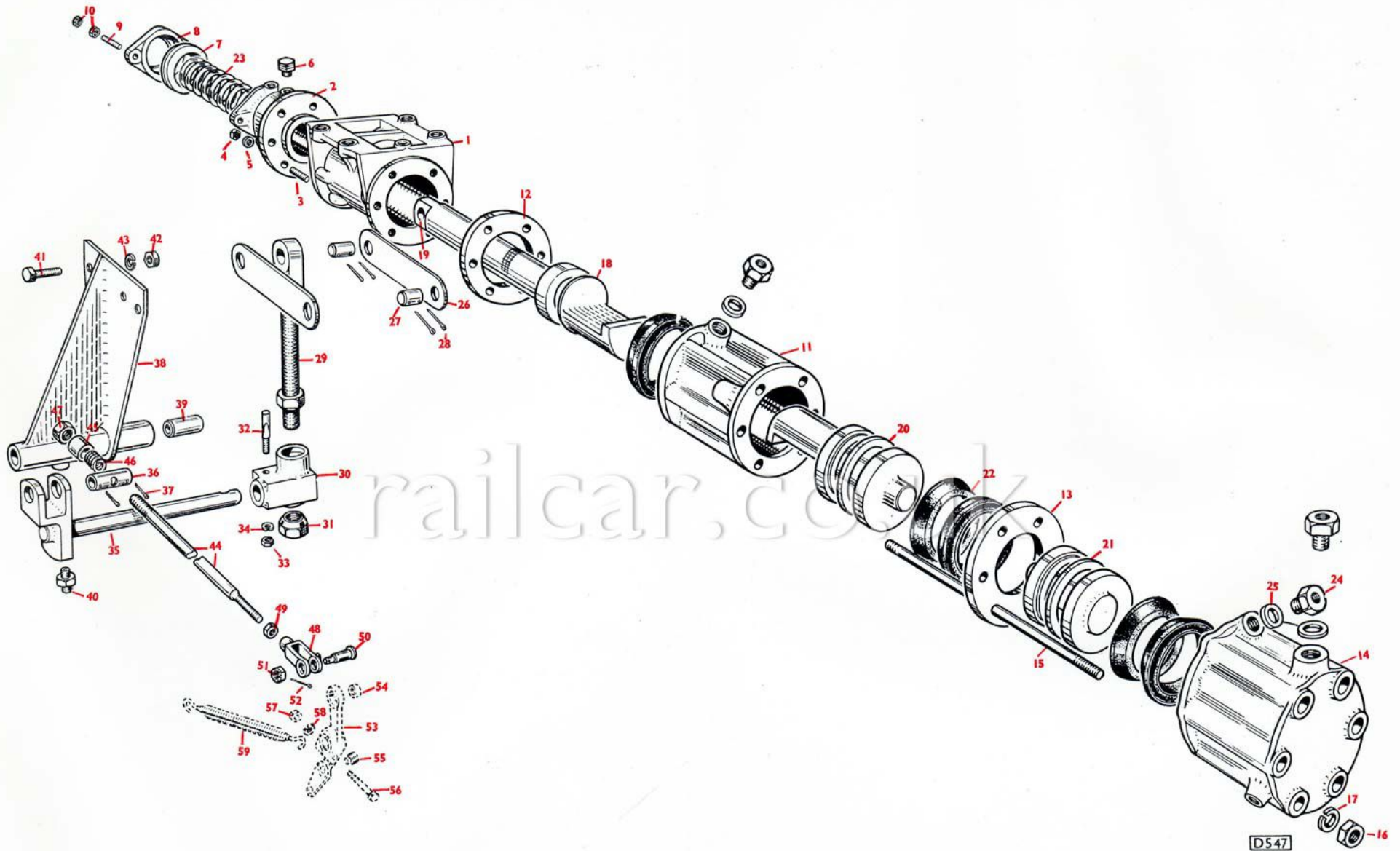
B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
<b>CONTROL GEAR—Continued</b>						
9/15/65206	5004-11		<b>AIR CLEANER AND ANTI-FREEZER, CLAYTON DEWANDRE A.P.S.A. 372-1</b> ...	R214/A/C/E/F	2	} Compressor Delivery Compressor Delivery Compressor Suction
	310-82		Hose, Flexible, $\frac{5}{8}$ " I/D. $\times$ $1\frac{1}{8}$ " O/D. $\times$ 20 $\frac{1}{4}$ " ...	R214A/E	2	
	332-68		Clip, Jubilee, No. 1 ...	"	4	
	310-89		Hose, Flexible, $\frac{5}{8}$ " I/D. $\times$ $1\frac{1}{8}$ " O/D. $\times$ 12" ...	R214C	2	
	310-81		Hose, Flexible, $\frac{7}{8}$ " I/D. $\times$ $1\frac{1}{4}$ " O/D. $\times$ 12" ...	"	2	
	332-68		Clip, Jubilee, No. 1 ...	"	8	
	81-870		Hose, Flexible, $\frac{1}{2}$ " I/D. $\times$ $1\frac{5}{8}$ " O/D. $\times$ 18" ...	"	4	
	332-68		Clip, Jubilee, No. 1 ...	"	8	
9/15/65207	5006-308		<b>NON RETURN VALVE, CLAYTON DEWANDRE, AP.SA68</b> ...	R214A/C/E/F	2	
9/15/65208	5006-504		Body, Clayton AP5006-1 ...	"	2	
9/15/65209	5001-140		Trip Valve with Seat, Clayton AP.SA-39 ...	"	2	
9/15/65210	5006-495		Spring, Clayton AP5134 ...	"	2	
9/15/65211	5001-143		Adaptor Nut, Clayton AP5484-1 ...	"	2	
9/15/65212	138-142		Washer, Copper, 30.5 $\times$ 38 $\times$ 2 m/m. ...	"	2	
9/15/65213	5006-505		Plate, Locking, Clayton SO 2055 ...	"	2	
9/15/65214	5001-144		Screw, Clayton SF8-13 ...	"	2	
	135-32		Washer, Grover, $\frac{1}{2}$ " ...	"	2	
9/15/65215	GA0903		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE AND BLANKING PIECE</b> ...	R214A/C	} 1	
9/15/65216	GA0904		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE AND BLANKING PIECE</b> ...	R214F		
9/15/65217	GA0905		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE AND BLANKING PIECE</b> ...	R214E		
9/15/65218	5006-442		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE AP.GA4624-1</b> ...	R214A/C		
9/15/65219	5006-443		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE</b> ...	R214F		
9/15/65220	5006-444		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE</b> ...	R214E		
	5021-583		<b>SAFETY VALVE COMPLETE, WESTINGHOUSE A87644-1</b> ...	R214A/C/E/F		
	5021-83		Body, Westinghouse A74387 ...	"		
	5021-82		Valve, Westinghouse A74386 ...	"		
	5021-81		Pivot, Westinghouse A74385 ...	"		
	5021-84		Spring, Westinghouse A75028-1 ...	"		
	5021-85		Cap. Valve, Westinghouse A75062 ...	"		
	5021-87		Locknut, Special, Westinghouse A84202 ...	"		
	5021-333		Adaptor, Westinghouse A74804-2 ...	"		
	219-24		Wire, Locking, Iron, 18 S.W.G. ...	"	As req.	
9/15/65221	501-225		Seal, Lead ...	"	1	
9/15/65222	Z51779		Blanking Piece ...	"	1	
	28-32		Bolt, No. 2 B.A. $\times$ $\frac{3}{4}$ " ...	"	4	
	153-19		Washer, Grover, No. 2 B.A. ...	"	4	
9/15/65223	132-56		Nut, Union ...	"	1	
9/15/65224	Z2/32014		Nut, Special ...	"	1	
9/15/65225	138-214		Washer, Copper, Special, $5\frac{3}{4}$ " Dia. $\times$ 2 m/m. ...	"	1	
9/15/65226	5006-93		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE AP.GA.4460-1</b> ...	R214A/C/E	1	
9/15/65227	5006-326		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE</b> ...	R214F	1	
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9/15/65229	5006-327		<b>AUXILIARY AIR RESERVOIR, CLAYTON DEWANDRE</b> ...	R214F	1	
9/15/65230	5004-10		<b>AIR FILTER COMPLETE, CLAYTON DEWANDRE AP.SA209-3</b> ...	R214A/C/E/F	2	
9/15/65231	5001-29		<b>REDUCING VALVE COMPLETE, CLAYTON DEWANDRE AP.GA5154.2</b> ...	"	1	
9/15/65232	5042-1		<b>AIR PRESSURE SWITCH, BTH. TYPE PGS FORM E12</b> ...	"	1	2 Off on DTO1/5

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9/15/65235	5023-19		Dummy Coupling, $\frac{3}{4}$ " ... ..	"	2	
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	347-90		Terminal, Dynamo ... ..	R214C	475	
	347-214		Terminal ... ..	"	16	Use on 2 B.A. Stud with 60/0-018" Cable
	347-169		Terminal, Starter ... ..	"	4	
	347-90		Terminal, Dynamo ... ..	R214D	300	
	347-214		Terminal ... ..	"	12	Use on 2 B.A. Stud with 60/0-018" Cable
	402-214		Cable, 7/0-029" ... ..	R214C	5,370 ft.	4,140 ft. on R214D
	402-115		Cable, 60/0-018", Black ... ..	R214C/D	140 ft.	
	402-116		Cable, 60/0-018", Red ... ..	"	140 ft.	
	402-217		Cable, 14/0-012" ... ..	R214C	370 ft.	
	402-107		Cable, 61/0-044" ... ..	"	50 ft.	
	402-220		Cable, 35/0-012" ... ..	"	40 ft.	
	499-33		Tape, Adhesive, $\frac{3}{4}$ " ... ..	R214C/D	100 yds.	
	499-924		Sleeve, Identification, S+ ... ..	R214C	2	
	499-928		Sleeve, Identification, S- ... ..	"	2	
9/15/65236	5037-44		<b>COMBINED DEADMAN'S CONTROL VALVE, GRESHAM AND CRAVEN No. 13924</b> ...	DTO1/B, 1/2, 1/5, 1/7	1	

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TSC-2498



# CONTROL GEAR SECTION

(A.E.C. TYPE UNITS)

TYPE  
R223 SERIES

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CONTROL GEAR TYPE		
B.R. Cat. No.	A.E.C. Basic Part No.	Description
	R223 Series	<p><b>CONTROL GEAR COMPLETE</b> Used on DTO1/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/33, 1/32, 1/30, 1/34, 1/35, 1/38, 1/40, 1/39, 1/42, 1/41, 1/41A, 1/43, 1/44, 1/45, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57</p>

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B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R2</b>	<b>CONTROL GEAR</b>			Sharps Part Nos. except * G.E.C. † Santon (Power and Trailer Cars)
					(See Note below)	
9/15/65244	R7714		<b>THROTTLE CONTROLLER COMPLETE ...</b>	Not DTOI/35, I/42	1	220A18 Sharps
9/15/65245	5127-24	1	Ring, Interlock ... ..	"	1	ID54
9/15/65246	5127-27	2	<b>Spring, Torsion ... ..</b>	"	1	48D19
9/15/65247	5127-45	3	<b>Bush, <math>\frac{1}{8}</math>" Dia. x 1" Long ... ..</b>	"	1	31E31
	121-87	4	Screw, $\frac{1}{4}$ " Whit. x 1" ... ..	"	3	
9/15/65248	5127-64	5	Plate, Locking ... ..	"	4	52E16
9/15/65249	5127-122		<b>TOP PLATE COMPLETE ... ..</b>	"	1	Sub-Assy. No. 1
9/15/65250	5127-20	6	Plate, Top ... ..	"	1	93C25
9/15/65251	5127-48		Bracket, Spring Support ... ..	"	1	11E58
9/15/65252	5127-54		Bracket, Contact Panel ... ..	"	1	11E56B
	121-87		Screw, $\frac{1}{4}$ " Whit. x 1" ... ..	"	6	
9/15/65248	5127-64		Plate, Locking ... ..	"	5	52E16
9/15/65254	5127-65		Plate, Locking ... ..	"	1	52E16A
9/15/65255	5127-25	7	<b>Bearing, Top ... ..</b>	"	1	5D19
	121-7	8	Screw, $\frac{1}{4}$ " Whit. x $\frac{3}{4}$ " ... ..	"	2	
9/15/65256	5127-26	9	Shaft, Top ... ..	"	1	2D17
9/15/65257	5127-116	10	<b>Bush, Oilite CT51 ... ..</b>	"	1	307/54
9/15/65258	5127-46	12	Washer, Cams ... ..	"	3	68E4
	99-8	13	Circlip, Seeger, $\frac{1}{8}$ " Dia. ... ..	"	2	
9/15/65259	5127-5	14	Cam (TG and DM) ... ..	"	3	50D53A
9/15/65260	5127-68		Block, Stop ... ..	"	1	1E10
9/15/65261	5127-146		Screw, Stop Block ... ..	"	1	300/745A
9/15/65262	5127-89	15	Spacer, Cams ... ..	"	2	P297D43
9/15/65263	5127-123		<b>BOTTOM SHAFT COMPLETE ... ..</b>	"	1	Sub-Assy. No. 10
9/15/65264	5127-59	16	Shaft, Bottom ... ..	"	1	2E9
	99-8	17	Circlip, Seeger, $\frac{1}{16}$ " Dia. ... ..	"	1	
9/15/65258	5127-46	18	Washer, Cams ... ..	"	1	68E4
9/15/65265	5127-6	19	Cam, T1 ... ..	"	1	50D53B
9/15/65266	5127-7	20	Cam, T2 ... ..	"	1	50D53C
9/15/65267	5127-8	21	Cam, T3 ... ..	"	1	50D53D
9/15/65268	5127-9	22	Cam, T4 ... ..	"	1	50D53E
9/15/65262	5127-89	23	Spacer, Cams ... ..	"	4	P297D43
9/15/65269	5127-60	24	Shaft, Operating ... ..	"	1	2E10
9/15/65270	5127-47	25	Washer, Shaft ... ..	"	1	68E5
9/15/65271	5127-124		<b>STARWHEEL COMPLETE ... ..</b>	"	1	Sub-Assy. No. 4
9/15/65272	5127-49	26	Starwheel ... ..	"	1	49E5
9/15/65273	5127-87	27	Clamp ... ..	"	1	P297E35
9/15/65274	5127-70	28	Pin, Stop ... ..	"	1	27E49B
9/15/65275	5127-83	29	Screw, Clamp, $\frac{7}{16}$ " A/F. x $1\frac{1}{2}$ " Special ... ..	"	2	61E5/2
9/15/65248	5127-64	30	Plate, Locking ... ..	"	2	52E16
9/15/65276	5127-63	31	Pin, Driving ... ..	"	1	91E43
9/15/65277	5127-57		Bar, Tie ... ..	"	4	17E16A

**NOTE:**—Quantities are doubled from pages R.2 to R.7 on 20 Power Cars of DTOI/25 and all Power Cars of DTOI/57 (Double-Ended Controls)



B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		R2	<b>CONTROL GEAR—Continued</b> <b>THROTTLE CONTROLLER—Continued</b>	Not DTO1/35, 1/42	(See Note on page R.2)	Sharps Part Nos. except * G.E.C. † Santon  (Power and Trailer Cars)
9/15/65278	5127-125		<b>CONTACTOR COMPLETE</b> ... ..	"	1	Sub. Assy. No. 11
9/15/65279	5127-37		Shaft, Contactor ... ..	"	1	2D15
9/15/65280	5128-11		<b>MOVING ARM COMPLETE WITH MOVING CONTACT, G.E.C.</b> ... ..	"	7	5C3068-14 *
9/15/65281	5128-13		<b>MOVING ARM COMPLETE</b> ... ..	"	7	5C3068-23 *
9/15/65282	5128-7	32	Arm ... ..	"	7	S5D5072A *
9/15/65283	5128-10	33	Plate, Retaining ... ..	"	14	S5E3568A *
9/15/65284	5128-12	34	<b>ROLLER COMPLETE</b> ... ..	"	7	5E3567B *
9/15/65285	5128-9		Roller ... ..	"	7	S5E3567A *
9/15/65286	5128-17		<b>Bush</b> ... ..	"	7	S2D9359E *
9/15/65287	5128-18	35	Rivet, Retaining Plates ... ..	"	21	S2D45799V *
9/15/65288	5128-19		Tube, Roller ... ..	"	7	S2D57047T *
9/15/65289	5128-2	36	<b>Contact, Moving</b> ... ..	"	7	S5D3649A *
9/15/65290	5128-6	37	Holder ... ..	"	7	S5E2680A *
9/15/65291	5128-3	38	<b>Spring</b> } Moving Contact ... ..	"	7	S5E2691A *
9/15/65292	5128-8	39	Plate, Tapping ... ..	"	7	
9/15/65292	5128-20	40	Screw, Contact Arm ... ..	"	14	5C3068-12 *
	153-13		Washer, Thackray, No. 4 B.A. ... ..	"	14	
	99-3	41	Circlip, Seeger, $\frac{5}{8}$ " Dia. ... ..	"	10	
9/15/65293	5127-126		<b>SPRING ARM COMPLETE</b> ... ..	"	1	Sub. Assy. No. 3
9/15/65294	5127-51	42	Arm, Spring ... ..	"	1	4E43
9/15/65295	5127-71		Roller ... ..	"	1	31E27
9/15/65296	5127-66		Pin, Spring ... ..	"	1	91E42
9/15/65297	5127-80	43	Spindle ... ..	"	2	31E25
9/15/94369	112-101	44	Rivet, Steel, Csk., $\frac{3}{8}$ " x $\frac{1-3}{8}$ " ... ..	"	2	
9/15/65298	5127-127		<b>BOTTOM PLATE COMPLETE</b> ... ..	"	1	Sub. Assy. No. 2
9/15/65299	5127-19	45	Plate, Bottom ... ..	"	1	93C27
9/15/65300	5127-142		Clamp, Cable, Top ... ..	"	1	19E15
	40-3		Screw, $\frac{5}{16}$ " Whit. x $1\frac{1}{8}$ " ... ..	"	1	
	85-3		Nut, Plain, $\frac{5}{16}$ " Whit. } Top Clamp ... ..	"	1	
	135-33		Washer, Grover, $\frac{5}{16}$ " ... ..	"	1	
9/15/65301	5127-69	46	Pin, Stop ... ..	"	2	27E49A
	5127-110	47	Nut, Half, $\frac{5}{16}$ " Whit. "Simmonds" ... ..	"	2	300/124B
9/15/65304	5127-143		Clamp, Cable, Bottom ... ..	"	1	19E16
	5127-144		Screw, No. 2 B.A. (Slotted Hex. Hd.) ... ..	"	2	300/720A
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	2	
9/15/65302	5127-2		Nameplate ... ..	"	1	81E40
9/15/65303	5127-145		Screw, Drive ... ..	"	2	300/857
	90-2		Locknut, $\frac{5}{16}$ " Whit., "Simmonds" ... ..	"	4	Bottom Plate
9/11/640	13-8	48	<b>Ball, Steel, <math>\frac{3}{8}</math>" Dia. (Shaft)</b> ... ..	"	1	
9/15/65305	5128-5	49	<b>Spring, Contactor, G.E.C.</b> ... ..	"	7	S5E4258A *
9/15/65306	5127-128		<b>CONTACT BLOCK PANEL COMPLETE</b> ... ..	"	1	Sub. Assy. No. 8
9/15/65307	5127-34	50	Panel ... ..	"	1	11D16
9/15/65308	5128-4		<b>FIXED CONTACT BLOCK WITH TERMINAL SCREWS, G.E.C.</b> ... ..	"	7	5C3068-24 *
9/15/65309	5128-14	51	<b>FIXED CONTACT BLOCK COMPLETE</b> ... ..	"	7	5E2700A *
	5128-21	52	Screw, 2 B.A. Hx. Hd. x $\frac{1}{2}$ " ... ..	"	14	5C3068-18 *
	153-11		Washer, Thackray, No. 2 B.A. ... ..	"	14	
	143-19		Screw, Ch. Hd., No. 2 B.A. x $\frac{5}{8}$ " ... ..	"	7	} Block to Angle Piece
	153-11	53	Washer, Thackray, No. 2 B.A. ... ..	"	7	
	5127-111		Locknut, Half, 2 B.A. "Simmonds" ... ..	"	7	300/126A
	121-87	54	Screw, $\frac{1}{4}$ " Whit. x $\frac{5}{8}$ " ... ..	"	2	Contact Block
	5127-109	55	Locknut, Half, $\frac{1}{2}$ " Whit. "Simmonds" ... ..	"	2	300/123A
9/15/65310	5127-53	56	Bracket, Contact Block ... ..	"	1	11E56A

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R2</b>	<b>CONTROL GEAR—Continued</b>			Sharps Part Nos. except * G.E.C. † Santon
			<b>THROTTLE CONTROLLER—Continued</b>	Not DTOI/35, 1/42	(See Note on page R.2)	(Power and Trailer Cars)
			<b>CONTACT BLOCK PANEL—Continued</b>			
	5127-107		Tag, Terminal, T5 ... ..	"	1	81E15R
	5127-93		Tag, Terminal, G+ ... ..	"	1	81E15B
	5127-94		Tag, Terminal, DM ... ..	"	1	81E15C
	5127-95		Tag, Terminal, DM+ ... ..	"	1	81E15D
	5127-96		Tag, Terminal, T1 ... ..	"	1	81E15E
	5127-97		Tag, Terminal, T2 ... ..	"	1	81E15F
	5127-98		Tag, Terminal, T3 ... ..	"	1	81E15G
	5127-99		Tag, Terminal, T4 ... ..	"	1	81E15H
	5127-108		Tag, Terminal, T6 ... ..	"	1	81E15S
	5127-81		Insulation ... ..	"	1	67E12
	5127-43		Connection, Long ... ..	"	1	80D52
	5127-44		Connection, Short ... ..	"	1	80D53
	142-20		Screw, Brass, Ch. Hd., No. 2 B.A. x 1/2" ...	"	1	
9/15/65311	5127-115	57	Bush ... ..	"	1	307/53
9/15/65312	5127-29	58	Block, Handle ... ..	"	1	1D53
9/15/65313	5127-90	59	Bracket, Locking ... ..	"	1	11D15
	121-7	60	Screw, 1/4" Whit. x 3/4" ... ..	"	1	
	90-1	61	Locknut, 1/4" Whit. ... ..	"	1	
9/15/65314	5127-56	62	Pin, Spring ... ..	"	1	91E50
9/15/65315	5127-1	63	Spring ... ..	"	1	48/21
	90-33		Locknut, 3/8" B.S.F. ... ..	"	2	
9/15/65316	5127-55	64	Bush, Spring Pin ... ..	"	1	31E29
9/15/65317	5127-129		<b>HANDLE COMPLETE</b> ... ..	"	1	Sub. Assy. No. 5
9/15/65318	5127-30	65	Handle ... ..	"	1	55D16A
9/15/65319	5127-75	66	Knob ... ..	"	1	55E7
	90-2	67	Locknut, 5/16" Whit. ... ..	"	1	
9/15/65320	5127-67	68	Tongue, Driving ... ..	"	1	4E25
9/15/65321	5127-114	69	Screw, Special, 1/4" Whit. Hx. Hd. 5/8" Long ...	"	1	307/52
9/15/65322	5127-61	70	Stop Screw, Special ... ..	"	1	27E46
	135-34		Washer, Grover, 3/8" ... ..	"	1	
	135-32		Washer, Grover, 1/4" ... ..	"	1	
9/15/65323	5127-78	71	Pin, Pivot ... ..	"	1	91E41
9/15/65324	5127-111	72	Domnut ... ..	"	1	300/130
9/15/65325	5127-130		<b>SPRING SUPPORT ANGLE COMPLETE</b> ... ..	"	1	Sub. Assy. No. 12
9/15/65326	5127-73	73	Angle ... ..	"	1	11E61
	121-7		Screw, 1/4" Whit. x 3/4" ... ..	"	2	
	5127-109		Locknut, Half, "Simmonds" 1/4" Whit. ... ..	"	2	300/123A
9/15/65327	5127-35	74	Plate, Spring Support ... ..	"	1	11E19
9/15/65251	5127-48		Bracket ... ..	"	1	11E58
	134-2	75	Washer, Plain, 1/4", Steel, Bright ... ..	"	1	
9/15/65329	5127-79	76	Spring, Spring Arm Spindle ... ..	"	1	48E46
	121-8		Screw, 1/4" Whit. x 1" ... ..	"	6	
	90-1		Locknut, 1/4" Whit. ... ..	"	6	
9/15/65330	5127-84	77	Screw, Thrust, Shaft Ball ... ..	"	1	61E11
	90-5	78	Locknut, 1/2" Whit. ... ..	"	1	
	5127-109		Locknut, Half, "Simmonds" 1/4" Whit. ... ..	"	2	300/123A

} Bottom Plate

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R3</b>	<b>CONTROL GEAR—Continued</b>			Sharps Part Nos. except * G.E.C. † Santon (Power and Trailer Cars)
					(See Note on Page R.2)	
9/15/65331	R7715		<b>GEAR BOX CONTROLLER COMPLETE ...</b>	Not DTO1/35, 1/42, 1/55, 1/57	1	
9/15/65332	R7718		<b>GEAR BOX CONTROLLER COMPLETE ...</b>	DTO1/55, 1/57	1	
9/15/65333	5127-131		<b>TOP PLATE COMPLETE ...</b>	R7715, R7718	1	Sub. Assy. No. 1
9/15/65334	5127-17		Plate, Top ...	"	1	93B26
9/15/65251	5127-48		Bracket, Spring Support ...	"	1	11E58
9/15/65252	5127-54		Bracket, Contact Panel ...	"	1	11E56B
	121-87		Screw, 1/4" Whit. x 5/8" ...	"	6	
9/15/65248	5127-64		Plate, Locking ...	"	3	52E16
9/15/65254	5127-65		Plate, Locking ...	"	3	52E16A
	121-7		Screw, 1/4" Whit. x 3/8" ...	"	2	
9/15/65335	5127-132		<b>BOTTOM PLATE COMPLETE ...</b>	"	1	Sub. Assy. No. 2
9/15/65336	5127-18	1	Plate ...	"	1	93B17
9/15/65300	5127-142		Clamp, Cable, Top ...	"	1	19E15
9/15/65301	5127-69	2	Pin, Stop ...	"	2	27E49A
	5127-110	3	Locknut, Half, "Simmonds" 5/16" Whit. ...	"	2	300/124B
	40-3		Screw, 5/16" Whit. x 1 1/8" ...	"	1	
	85-3		Nut, Plain, 5/16" Whit. ...	"	1	
	135-33		Washer, Grover, 5/16" ...	"	1	
9/15/65304	5127-143		Clamp, Cable, Bottom ...	"	1	19E16
	5127-144		Screw, No. 2 B.A. (Slotted Hex. Hd.) ...	"	2	300/720A
	153-19		Washer, Grover, No. 2 B.A. ...	"	2	
9/15/65302	5127-2		Nameplate ...	"	1	81E40
9/15/65303	5127-145		Screw, Drive ...	"	2	300/857
9/11/640	13-8	4	<b>Ball, Steel, 3/8" Dia. (Shaft)</b>	"	1	
9/15/65338	5127-133		<b>HANDLE COMPLETE ...</b>	"	1	Sub. Assy. No. 6
9/15/65339	5127-31	5	Handle ...	"	1	55D16B
9/15/65319	5127-75	6	Knob ...	"	1	55E7
	91-3	7	Locknut, 5/16" Whit. ...	"	1	
	121-8		Screw, 1/4" Whit. x 1" ...	"	1	
	135-32	8	Washer, Grover, 1/2" ...	"	1	
9/15/65323	5127-78	9	Pin, Pivot ...	"	1	91E41
9/15/65340	5127-112	10	Domenuit ...	"	1	300/130
9/15/65341	5127-21	11	Block, Handle ...	"	1	1C52
9/15/65342	5127-42	12	Bracket, Locking ...	"	1	52D15
	90-33	13	Locknut, 3/8" B.S.F. ...	"	2	
9/15/65343	5127-134		<b>DIRECTION OPERATING BOSS COMPLETE ...</b>	"	1	Sub. Assy. No. 8
9/15/65344	5127-32	14	Boss ...	"	1	1D46
9/15/65345	5127-50	15	Bush ...	"	1	31E30
9/15/65346	5127-86	16	Handle, Direction ...	"	1	P297D116
9/15/65347	5127-135		<b>TOP SHAFT COMPLETE ...</b>	R7715	1	
9/15/65348	5127-136		<b>TOP SHAFT COMPLETE ...</b>	R7718	1	Sub. Assy. No. 9
9/15/65253	5127-36	17	Shaft, Top ...	R7715, R7718	1	2D14
9/15/65257	5127-116		Bush, Top Shaft ...	"	1	307/54
9/15/65349	5127-113	18	Spacer, Cams ...	"	6	P297D43
9/15/65350	5127-10	19	Cam (Remainder of Top Shaft) ...	"	4	50D53F
9/15/65351	5127-11	20	Cam (2nd) ...	"	1	50D53G
9/15/65352	5127-12	21	Cam (3rd) ...	"	1	50D53H
9/15/65258	5127-46	22	Washer, Cams ...	"	2	68E4
	99-8	23	Circlip, Seeger, 1 5/8" Dia. ...	"	1	Cams
9/15/65353	5127-28	24	Bearing, Top ...	"	1	5D16
9/15/65354	5127-39		Starwheel ...	R7715	1	49D7
9/15/65546	5127-117	25	Starwheel ...	R7718	1	96D8
9/15/65355	5127-88	26	Clamp ...	R7715, R7718	1	P297E33
9/15/65356	5127-82	27	Screw ...	"	2	61E5/1
9/15/65248	5127-64	28	Plate, Locking ...	"	2	52E16
	121-87	29	Screw, 1/4" Whit. x 5/8" ...	"	3	Bearing to Top Plate
9/15/65248	5127-64	30	Plate, Locking ...	"	3	52E16

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R3</b>	<b>CONTROL GEAR—Continued ... ..</b>			Sharps Part Nos. except * G.E.C. † Santon
			<b>GEAR BOX CONTROLLER—Continued</b>	R7715, R7718	(See Note on page R.2)	(Power and Trailer Cars)
			<b>OPERATING SHAFT COMPLETE</b> ... ..	"	1	Sub Assy. No. 10
9/15/65357	5127-137		Shaft, Operating ... ..	"	1	2E11
9/15/65358	5127-62	31	Shaft, Bottom ... ..	"	1	2E9
9/15/65264	5127-59	32	Washer (Top to Bottom Shaft, Special) ... ..	"	1	68E5
9/15/65270	5127-47	33	Circlip, Seeger, $\frac{13}{16}$ " Dia. ... ..	"	1	
	99-8	34	Washer ... ..	"	1	68E4
9/15/65258	5127-46	35	Spacer ... ..	"	4	P297D43
9/15/65349	5127-113	36	Cam, 7th ... ..	"	1	50D53I
9/15/65359	5127-13	37	Cam, 8th ... ..	"	1	50D53J
9/15/65360	5127-14	38	Cam, 9th ... ..	"	1	50D53K
9/15/65361	5127-15	39	Cam, 10th... ..	"	1	50D53L
9/15/65362	5127-16	40	<b>STARWHEEL COMPLETE</b> ... ..	"	1	Sub Assy. No. 5
9/15/65363	5127-138		Starwheel ... ..	"	1	49D6
9/15/65545	5127-121	41	Clamp ... ..	"	1	P297E35
9/15/65273	5127-87	42	Pin, Stop ... ..	"	1	27E49B
9/15/65274	5127-70	43	Screw, $\frac{7}{16}$ " A/F. $\times 1\frac{3}{4}$ ", Special ... ..	"	2	61E5/2
9/15/65275	5127-83	44	Plate, Locking ... ..	"	2	52E16
9/15/65248	5127-64	45	Pin, Driving ... ..	"	1	91E43
9/15/65276	5127-63	46	<b>CONTACT BLOCK PANEL COMPLETE</b> ... ..	"	1	Sub Assy. No. 11
9/15/65364	5127-139		Panel ... ..	"	1	11C73
9/15/65365	5127-22	47	<b>FIXED CONTACT BLOCK WITH TERMINAL SCREW, G.E.C.</b> ... ..	"	10	5C3068-24 *
9/15/65308	5128-4		<b>FIXED CONTACT BLOCK COMPLETE</b> ... ..	"	10	5E2700A *
9/15/65309	5128-14	48	Screw (Contact Block), 2 B.A., Hx. Hd., $\frac{1}{2}$ " ... ..	"	30	5C3068-18 *
9/15/65366	5128-21	49	Washer, Thackray, No. 2 B.A. ... ..	"	30	
	153-11		Screw, Ch. Hd., No. 2 B.A. $\times \frac{5}{8}$ " ... ..	"	10	
	143-19	50	Washer, Thackray, No. 2 B.A. ... ..	"	10	} Block to Angle Piece
	153-11		Locknut, Half, "Simmonds", 2 B.A. ... ..	"	10	
	5127-111		Screw, $\frac{1}{4}$ " Whit. $\times \frac{5}{8}$ " ... ..	"	2	300/126A
	121-87		Locknut, Half, "Simmonds", $\frac{1}{4}$ " Whit. ... ..	"	2	300/123A
9/15/65367	5127-109		Link (4 Holes) ... ..	"	1	80E43
9/15/65368	5127-72		Link (6 Holes) ... ..	"	1	80E44
9/15/65310	5127-76		Bracket, Contact Block ... ..	"	1	11E56A
	5127-53		Tag, Terminal, M+ ... ..	"	1	81E15A
	5127-92		Tag, Terminal, G+ ... ..	"	1	81E15B
	5127-93		Tag, Terminal, DM ... ..	"	1	81E15C
	5127-94		Tag, Terminal, L+ ... ..	"	1	81E15I
	5127-100		Tag, Terminal, F ... ..	"	1	81E15J
	5127-101		Tag, Terminal, R... ..	"	1	81E15K
	5127-102		Tag, Terminal, T5 ... ..	"	1	81E15R
	5127-107		Tag, Terminal, G1 ... ..	"	1	81E15M
	5127-103		Tag, Terminal, G2 ... ..	"	1	81E15N
	5127-104		Tag, Terminal, G3 ... ..	"	1	81E15O
	5127-105		Tag, Terminal, G4 ... ..	"	1	81E15P
	5127-106		Tag, Terminal, G4 ... ..	"	1	81E15S
	5127-108		Tag, Terminal, T6 ... ..	"	1	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>R2 CONTROL GEAR—Continued</b>			Sharps Part Nos. except * G.E.C.
			<b>GEAR BOX CONTROLLER—Continued</b>	R7715, R7718	(See Note on page R.2)	† Santon (Power and Trailer Cars)
9 15 65369	5127-140		<b>CONTACTOR COMPLETE</b> ... ..	"	1	Sub Assy. No. 13
9 15 65370	5127-23		Shaft, Contactor ... ..	"	1	2C26
9 15 65280	5128-11		<b>MOVING ARM COMPLETE WITH MOVING CONTACT, G.E.C.</b>	"		
9 15 65281	5128-13		<b>MOVING ARM COMPLETE</b> ... ..	"	10	5C3068-14 *
9 15 65282	5128-7	51	Arm ... ..	"	10	5C3068-23 *
9 15 65283	5128-10	52	Plate, Retaining ... ..	"	10	S5D5072A *
9 15 65284	5128-12	53	<b>ROLLER COMPLETE</b> ... ..	"	30	S5E3568A *
9 15 65285	5128-9		Roller ... ..	"	10	5E3567B *
9 15 65286	5128-17		<b>Bush</b> ... ..	"	10	S5E3567A *
9 15 65287	5128-18	54	Rivet, Retaining Plates ... ..	"	10	S2D9359E *
9 15 65288	5128-19		Tube, Roller... ..	"	30	S2D45799V *
9 15 65289	5128-2	55	<b>Contact, Moving</b> ... ..	"	10	S2D57047T *
9 15 65290	5128-6	56	Holder ... ..	"	10	S5D3649A *
9 15 65291	5128-3	57	<b>Spring</b> ... .. } Moving Contact	"	10	S5E2680A *
9 15 65253	5128-8	58	Plate, Tapping ... ..	"	10	S5E2691A *
9 15 65292	5128-20		Screw, Contact Arm ... ..	"	30	
	153-13	59	Washer, Thackray, No. 4 B.A. ... ..	"	30	5C3068-12 *
	99-3	60	Circlip, Seeger, $\frac{5}{8}$ " Dia. ... ..	"	30	
9 15 65293	5127-126		<b>SPRING ARM COMPLETE</b> ... ..	"	14	
9 15 65294	5127-51	61	Arm, Spring ... ..	"	2	Sub Assy. No. 3
9 15 65295	5127-71	62	Roller ... ..	"	2	4E43
9 15 65296	5127-66	63	Pin, Spring ... ..	"	2	31E27
9 15 65297	5127-80	64	Spindle ... ..	"	2	91E42
9 15 94369	112-101		Rivet, Steel, Csk., $\frac{3}{16}$ " x $\frac{1-13}{16}$ ", Special ... ..	"	4	31E25
9 15 65371	5127-58		Bar, Tie ... ..	"	4	
	90-2		Locknut, $\frac{5}{16}$ " Whit. ... ..	"	3	17E16B
9 15 65305	5128-5	65	<b>Spring, Moving Contact, G.E.C.</b> ... ..	"	4	
9 15 65372	5127-141		<b>SPRING SUPPORT ANGLE COMPLETE</b> ... ..	"	10	S5E4258A *
9 15 65373	5127-77	66	Angle ... ..	"	1	Sub Assy. No. 14
9 15 65374	5127-41	67	Plate ... ..	"	1	11E60
	121-7		Screw, $\frac{1}{4}$ " Whit. x $\frac{3}{4}$ " ... ..	"	1	11D28
	5127-109		Locknut, Half, "Simmonds", $\frac{1}{4}$ " Whit. ... ..	"	2	
9 15 65251	5127-48		Bracket ... ..	"	2	300/123A
9 11 656	13-10	68	<b>Ball, Steel, <math>\frac{1}{2}</math>" Dia.</b> ... ..	"	1	11E58
	121-8		Screw, $\frac{1}{4}$ " Whit. x 1" ... ..	"	1	Handle Block
	90-1		Locknut, $\frac{1}{4}$ " Whit. ... ..	"	6	
9 15 65330	5127-84	69	Screw, Thrust ... ..	"	6	
	90-5	70	Locknut, $\frac{1}{2}$ " Whit. ... ..	"	1	61/E/11
9 15 65329	5127-79		<b>Spring, Gear Starwheel</b> ... ..	"	1	
9 15 65375	5127-85	71	<b>Spring, Direction Starwheel</b> ... ..	"	1	48E46
	134-2	72	Washer, Plain, $\frac{1}{4}$ " (Spring)... ..	"	1	48/43
	5127-109		Locknut, Half, "Simmonds", $\frac{1}{4}$ " Whit. ... ..	"	2	300/123A
9 15 65376	5127-118		Starwheel, Santon Switch ... ..	R7718	1	96E9
9 15 65377	5127-119		Bracket, Angle, Top ... ..	"	1	11B172/1
9 15 65378	5127-120		Bracket, Angle, Bottom ... ..	"	1	11B172/2
9 15 65379	5156-1		<b>SWITCH COMPLETE, SANTON</b> ... ..	"	1	SRI125MN12 †
	121-87		Screw, $\frac{1}{4}$ " Whit. x $\frac{5}{8}$ " ... ..	"	4	
	5127-109		Locknut, Half, "Simmonds" } Switch to Brackets	"	4	
	134-2		Washer, Plain, $\frac{1}{4}$ " ... ..	"	8	300/123A
	121-87		Screw, $\frac{1}{4}$ " Whit. x $\frac{5}{8}$ " ... ..	"	4	
	85-2		Nut, Plain, $\frac{1}{4}$ " Whit. ... ..	"	4	
	135-32		Washer, Grover, $\frac{1}{4}$ " ... ..	"	4	Bracket to Controller

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>CONTROL GEAR—Continued</b>		(See Note below)	(Power and Trailer Cars)
9/15/65380	373-453		<b>ENGINE SPEED INDICATOR, SMITHS RMC58/2</b> ... ..	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/21, 1/23, 1/25, 1/26, 1/27, 1/31, 1/33, 1/32, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/49, 1/52, 1/53, 1/54, 1/55, 1/57	1	Not req. on 20 Power Cars of DT01/12
9/15/65381	UI82533		<b>ENGINE SPEED INDICATOR, SMITHS RMC58/5</b> ... ..	DT01/28, 1/28A, 1/35, 1/42, 1/43, 1/45, 1/56	1	0-100 lbs. per <input type="checkbox"/> inch. Black Dial, White Needle and Markings
9/15/65382	5041-2		<b>AIR PRESSURE GAUGE, BUDENBURG Q/6646</b> ... ..	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/21, 1/22, 1/24, 1/25, 1/27, 1/31, 1/33, 1/34, 1/40, 1/39, 1/43, 1/44, 1/45, 1/52, 1/57	1	
9/15/65383	5038-33		<b>VACUUM GAUGE, GRESHAM AND CRAVEN, No. 14116</b> ... ..	DT01/15, 1/17, 1/22, 1/25	1	Power Car only DT01/15 D/E Power Car—DT01/25
9/15/63792	546-1390		<b>CHANGE OVER SWITCH, BULGIN No. 5603PD</b> ... ..	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/44, 1/53, 1/49, 1/50, 1/52, 1/54, 1/55, 1/57	1	
9/15/65384	VI/5117		<b>ENGINE CONTROL PANEL COMPLETE</b>	DT01/12, 1/13, 1/15, 1/14, 1/17, 1/18, 1/24	1	50 Power & 50 Trailer Cars of DT01/18 Trailer Car on DT01/12
9/15/65385	VI/5150		<b>ENGINE CONTROL PANEL COMPLETE</b>	DT01/12	1	Not req. on 20 Power Cars of DT01/12
9/15/65386	VI/5160		<b>ENGINE CONTROL PANEL COMPLETE</b>	DT01/16	1	
9/15/65387	VI6424		Panel ... ..	VI/5117, VI/5150 VI/5160	1	
9/15/65107	339-1375		<b>LAMP FITTING, SIGNAL, BULGIN No. D133/G</b> ... ..	"	12	
9/15/65108	416-371		<b>Bulb, 32 V. 2.8 Watt</b> ... ..	"	12	
9/15/63777	546-1198		<b>Switch, Press Button, C.A.V. No. 108/3</b> ... ..	"	1	Pass. Comm.
9/15/63788	546-1393		<b>Switch, Press Button, C.A.V. No. 108/43</b> ... ..	"	2	Start
9/15/63789	546-1394		<b>Switch, Press Button, C.A.V. No. 108/4</b> ... ..	"	1	Stop
	146-12		<b>Screw, Rd. Hd., No. 2 B.A. x 1/2"</b> ... ..	"	8	
	153-19		<b>Washer, Grover, No. 2 B.A.</b> ... ..	"	8	
			<b>NOTE:—Quantities are doubled on 20 Power Cars of DT01/25 and all Power Cars of DT01/57 (Double Ended Controls)</b>			

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>CONTROL GEAR—Continued</b>			(Power and Trailer Cars)
			<b>ENGINE CONTROL PANEL—Continued</b>			(See Note below)
				DTOI/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/24		
9/15/65388	341-1653		Label ... ..	"	1	Engine Stop
9/15/65389	341-1682		Label ... ..	VI/5117	1	Bell
9/15/65390	341-1685		Label ... ..	VI/5150	1	Signal Push
9/15/65391	341-1704		Label ... ..	VI/5160	1	Buzzer
9/15/65392	341-1651		Label ... ..	VI/5117, VI/5150 VI/5160	1	L.H. Engine
9/15/65393	341-1647		Label ... ..	"	1	Car 1
9/15/65394	341-1648		Label ... ..	"	1	Car 2
9/15/65395	341-1649		Label ... ..	"	1	Car 3
9/15/65396	341-1650		Label ... ..	"	1	Car 4
	146-38		Screw, Rd. Hd., No. 6 B.A. x 1/2"	"	16	} Label
	149-7		Nut, Plain, No. 6 B.A.	"	16	
	135-102		Washer, Shakeproof, 1/8" External	"	16	
9/15/65397	546-1440		Switch, Press Button, C.A.V. No. 221/9	DTOI/13	1	} Start
9/15/63788	546-1393		Switch, Press Button, C.A.V. No. 108/43		2	
9/15/63789	546-1394		Switch, Press Button, C.A.V. No. 108/4	DTOI/12	1	Stop
9/15/65398	VI/5152		<b>ENGINE CONTROL PANEL COMPLETE</b>	DTOI/18, 1/21, 1/23, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/38, 1/40, 1/39 (1st 71 Cars), 1/41 (1st 41 Cars), 1/43 (1st 30 Cars), 1/45 (1st 15 Cars), 1/48 (1 Car)	} 1	
9/15/65399	VI/5197		<b>ENGINE CONTROL PANEL COMPLETE</b>	DTOI/39 (Last 35 Cars) 1/41 (Last 25 Cars) 1/45 (Last 35 Cars), 1/48 (9 Cars), 1/44, 1/49, 1/50, 1/52, 1/54, 1/55, 1/57 VI/5152, VI/5197		
9/15/65400	VI6433		Panel ... ..		1	
9/15/65401	339-1332		<b>LAMP FITTING, SIGNAL, ROTAX No. N63462</b>	VI/5152	18	
9/15/65108	416-371		Bulb, 32 V., 2-8 Watt	"	18	
9/15/65402	339-1454		<b>LAMP FITTING, SIGNAL, C.A.V. No. WN62/2514</b>	VI/5197	18	
9/15/65403	416-394		Bulb, 24 V., 2-8 Watt. M.E.S.	"	18	
9/15/63788	546-1393		Switch, Press Button, C.A.V. No. 108/43	VI/5152, VI/5197	2	} Start Stop
9/15/63789	546-1394		Switch, Press Button, C.A.V. No. 108/4	"	1	
	146-12		Screw, Rd. Hd., No. 2 B.A. x 1/2"	"	6	
	153-19		Washer, Grover, No. 2 B.A.	"	6	
			<b>NOTE:—Quantities are doubled on 20 Power Cars of DTOI/25 and all Power Cars of DTOI/57 (Double Ended Controls)</b>			

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>CONTROL GEAR—Continued</b>		(See Note below)	(Power and Trailer Cars)
9/15/65404	UI82506		<b>ENGINE CONTROL PANEL COMPLETE</b>	DTO1/26, 1/32	2	
9/15/65405	UI82505		Panel ... ..	"	2	
9/15/65401	339-1332		<b>LAMP FITTING, SIGNAL, ROTAX N63462</b>	"	6	
9/15/65108	416-371		<b>BULB, 32 V., 2-8 WATT ... ..</b>	"	6	
9/15/63788	546-1393		Switch, Press Button, C.A.V. No. 108/43...	"	2	Start
9/15/63789	546-1394		Switch, Press Button, C.A.V. No. 108/4 ...	"	2	Stop
	146-12		Screw, Rd. Hd., No. 2 B.A. x 1/2" ... ..	"	8	
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	8	
9/15/65402	339-1454		<b>LAMP FITTING, SIGNAL, C.A.V. No. WN62/2514 ... ..</b>	DTO/53	18	
9/15/65403	416-394		Bulb, 24 V., 2-8 Watt, M.E.S. ... ..	"	18	
9/15/63788	546-1393		Switch, Press Button, C.A.V. No. 108/43	"	2	Start
9/15/63789	546-1394		Switch, Press Button, C.A.V. No. 108/4 ...	"	1	Stop
9/15/63794	339-1327		Lampholder, "Bill" Switchgear No. LH15 ...	DTO1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/32, 1/33, 1/30, 1/38, 1/40, 1/39, 1/41, 1/43, 1/44, 1/50	5	6 off on DTO1/13
9/15/63795	416-364		<b>Bulb, 35 V., 6 Watt ... ..</b>	"	5	6 off on DTO1/13; not req. on DTO1/25
	147-31		Screw, Rd. Hd., No. 5 B.A. x 5/8" ... ..	DTO1/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/33, 1/30, 1/38, 1/40, 1/39, 1/41, 1/43, 1/44, 1/50	10	
	149-17		Nut, Plain, No. 5 B.A. ... ..	1/14, 1/16, 1/17, 1/18, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/33, 1/30, 1/38, 1/40, 1/39, 1/41, 1/43, 1/44, 1/50	10	
	153-22		Washer, Grover, No. 5 B.A. ... ..	1/14, 1/16, 1/17, 1/18, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/33, 1/30, 1/38, 1/40, 1/39, 1/41, 1/43, 1/44, 1/50	10	
9/15/63793	546-1391		<b>Single Pole On-Off Switch, Bulgin No. 5602PD</b>	DTO1/13, 1/15, 1/12, 1/16, 1/17, 1/18, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/38, 1/40, 1/39, 1/41, 1/43, 1/44, 1/49, 1/50, 1/54	1	3 off on DTO1/14, 1/21, 1/26, 1/32
<p><b>NOTE:—Quantities are doubled on 20 Power Cars of DTO1/25 and all Power Cars of DTO1/57 (Double Ended Controls)</b></p>						



B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks	
			<b>CONTROL GEAR—Continued</b>			(Power and Trailer Cars)	
9/15/65406	VI/5156		<b>INSTRUMENT PANEL COMPLETE</b> ...	DTOI/22, 1/34	} 1		
9/15/65407	U189624		<b>INSTRUMENT PANEL COMPLETE</b> ...	DTOI/51, 1/56		1	
9/15/65408	VI/5155 VI6434		<b>INSTRUMENT PANEL WITH BRACKETS</b> Bracket ... ..	VI/5156, U189624		1	Not supplied as Spares
9/15/65380	373-453		<b>ENGINE SPEED INDICATOR, SMITHS</b> <b>RMC58/2</b> ... ..	"	1		
9/15/65104	Z13/30712		Bolt, Special... ..	"	4		
	85-32		Nut, Plain, 1/8" B.S.F. ... ..	"	4		
	153-17		Washer, Grover, No. 0 B.A. ... ..	"	4		
9/15/65382	5041-2		<b>AIR PRESSURE GAUGE, BUDENBURG</b> <b>Q6646</b> ... ..	"	1	0-100 lbs. per <input type="checkbox"/> inch. Black dial, white markings	
	Z12/30721		Screw, Special ... ..	"	3		
	149-14		Nut, Plain, No. 2 B.A. ... ..	"	3		
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	3		
9/15/65409	VI/14531		Bracket ... ..	"	1		
	Z12/30710		Screw, Special ... ..	"	2		
	149-14		Nut, Plain, No. 2 B.A. ... ..	"	2		
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	2		
9/15/63794	339-1327		<b>Lampholder, "Bill" Switchgear No. LH15...</b>	VI/5156	5		
9/15/63795	416-364		<b>Bulb, 35 V., 6 Watt</b> ... ..	"	5		
	147-31		Screw, Rd. Hd., No. 5 B.A. x 1/8" ... ..	"	10		
	149-17		Nut, Plain, No. 5 B.A. ... ..	"	10		
	153-22		Washer, Grover, No. 5 B.A. ... ..	"	10		
9/15/65410	VI/5149		<b>ENGINE CONTROL PANEL COMPLETE</b>	DTOI/22, 1/34	} 1		
9/15/65411	VI/5196		<b>ENGINE CONTROL PANEL COMPLETE</b>	DTOI/51, 1/56		1	
9/15/65412	VI6432		Panel ... ..	VI/5149, VI/5196	1		
9/15/63792	546-1390		<b>CHANGE OVER SWITCH, BULGIN No.</b> <b>5603PD</b> ... ..	"	1		
9/15/63793	546-1391		<b>SINGLE POLE ON-OFF SWITCH, BULGIN No. 5602PD</b> ... ..	"	1		
9/15/65401	339-1332		<b>LAMP FITTING, SIGNAL, ROTAX No.</b> <b>N63462</b> ... ..	VI/5149	18		
9/15/65108	416-371		Bulb, 32 V., 2.8 Watt ... ..	"	18		
9/15/65402	339-1454		<b>LAMP FITTING, SIGNAL, C.A.V. No.</b> <b>WN62/2514</b> ... ..	VI/5196	18		
9/15/65403	416-394		Bulb, 24 V., 2.8 Watt, M.E.S. ... ..	"	18		
9/15/63788	546-1393		<b>Switch, Press Button, C.A.V. No. 108/43</b> ...	VI/5149, VI/5196	2	Start	
9/15/63789	546-1394		<b>Switch, Press Button, C.A.V. No. 108/4</b> ...	"	1	Stop	
	146-12		Screw, Rd. Hd., No. 2 B.A. x 1/2" ... ..	"	6		
	153-19		Washer, Grover, No. 2 B.A. ... ..	"	6		

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R4</b>	<b>CONTROL GEAR—Continued</b> ... ..			(Power Cars)
9/15/65413	V7533		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 6 VALVES</b> ... ..	Not DTOI/26, 1/32, 1/35, 1/42, 1/48, 1/49	1	} Alternatives
9/15/65414	V7536		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 6 VALVES</b> ... ..			
9/15/65415	U192383		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 6 VALVES</b> ... ..	DTOI/45		6 off per Order
9/15/65416	V7523		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 6 VALVES</b> ... ..	DTOI/26, 1/32	1	} Not supplied as Spares
9/15/65417	V7522	} 24	<b>VALVE CASING WITH STIFFENERS</b> ... ..	V7533, V7523		
9/15/65418	V7535			<b>VALVE CASING WITH STIFFENERS</b> ... ..	V7536, U192383	
	V38084		Casing, Bare ... ..	V7522	1	
	V1/38002		Casing, Bare ... ..	V7535	1	
9/15/65423	Z8/30566	25	Stud, Special, $\frac{7}{16}$ " B.S.F. ... ..	V7533, V7536, V7523, U192383	1	
9/15/65114	V38043	26	Bar, Locating ... ..	"	6	
9/15/65115	112-72	27	Rivet, Iron, Csk., $\frac{1}{8}$ " x $\frac{1}{2}$ " ... ..	"	12	
9/15/65419	341-1656		Plate, Identification... ..	Not U192383	1	}
9/15/65420	341-1657		Plate, Identification... ..	U192383		
9/15/65421	341-1659		Plate, Number ... ..	Not U192383	1	}
9/15/65422	U189585		Plate, Number ... ..	U192383		
	109-422		Rivet, Bifurcated, $\frac{1}{8}$ " x $\frac{7}{16}$ " ... ..	"	6	Copper
9/15/65118	V38052	29	Cover ... ..	V7533, V7536, V7523, U192383	1	
9/15/65119	Z51738	30	<b>Felt Seal, 8<math>\frac{1}{8}</math>" Long</b> ... ..	"	2	} Cover
9/15/65120	Z51739	31	<b>Felt Seal, 19<math>\frac{3}{8}</math>" Long</b> ... ..	"	2	
	90-34		Locknut, $\frac{7}{16}$ " B.S.F.... ..	"	1	
9/15/65121	V38044	32	Boss, Thumb Screw ... ..	"	1	
9/15/65424	114-188	33	Rivet, Snap Hd., $\frac{5}{32}$ " x $\frac{5}{8}$ " ... ..	"	4	
9/15/65123	A74103	34	Nut, Special, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65124	Z48801	35	Circlip, Special, 19 m/m. Dia. ... ..	"	1	
9/15/65425	V38066	} 36	Block, Manifold ... ..	V7533, V7523, V7536, U192383	1	} Manifold Block
9/15/65426	V1/38005			Block, Manifold ... ..	V7536, U192383	
9/15/65427	Z51787		<b>Joint...</b> ... ..	"	1	
9/15/65126	Z1/44569	37	Plug ... ..	V7533, V7523, V7536, U192383	6	
	117-83	38	Screw, Csk., $\frac{5}{16}$ " B.S.F. x $\frac{3}{8}$ " ... ..	"	3	} Manifold Block
9/15/65127	124-158	39	Stud, $\frac{3}{8}$ " B.S.F. x $1\frac{7}{8}$ ", Special ... ..	"	4	
	85-34	40	Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4	
	135-34	41	Washer, Grover, $\frac{3}{8}$ " ... ..	"	4	
9/15/65128	Z3/10201	42	<b>Bush...</b> ... ..	"	18	
9/15/65429	V1/38001		<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	V7533	6	} A.E.I. Type TE.505 Form 4 Magnet Valve A.E.I. W.1362147 A.E.I. Y.2421349
			<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"		
9/15/65130	V38007	} 43	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	V7523	6	} Electric Pneumatic Valves
9/15/65430	V1/38004			<b>ELECTRIC PNEUMATIC VALVE</b> ... ..		
9/15/65132	Z51741	} 46	<b>Gasket, A.E.I. X.1216778-1</b> ... ..	V7533, V7523	6	} Electric Pneumatic Valves
9/15/65431	Z51786			<b>Gasket, A.E.I. Type TE.514, Form L...</b> ... ..		
9/15/65134	Z12/30760	} 48	Bolt, Special, $\frac{3}{8}$ " B.S.F. x 2", Drilled ... ..	V7533, V7523	12	} Electric Pneumatic Valves
9/15/65433	Z12/30770			Bolt, Special, $\frac{3}{8}$ " B.S.F. x 2 $\frac{1}{8}$ ", Drilled ... ..		
	Z4/30696	49	Washer, $\frac{3}{8}$ ", Grover ... ..	V7533, V7523, V7536, U192383	12	
9/15/65434	V38089		Support, Control Wiring ... ..	"	1	} Casing
9/15/65135	331-49	50	Plug, $\frac{3}{8}$ " Gas ... ..	"	2	
9/15/65136	331-48	51	Plug, $\frac{1}{4}$ " Gas ... ..	"	6	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65435	V7534	R4	<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65436	V7537		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 4 VALVES</b> ...	Not DTOI/26, 1/32, 1/42, 1/48, 1/49	1 (See Note below)	With Ext. Exhaust Valves } Alternatives
9/15/65417	V7522		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 4 VALVES</b> ...			
9/15/65418	V7535	52	<b>VALVE CASING WITH STIFFENERS</b> ...	V7534	1	Not supplied as Spares
	V38084		<b>VALVE CASING WITH STIFFENERS</b> ...	V7537		
	V1/38002		Casing ...	V7522	1	
9/15/65423	Z8/30566	53	Stud, Special, $\frac{7}{16}$ " B.S.F. ...	V7535	1	
9/15/65114	V38043	54	Bar, Locating ...	V7534, V7537	1	
9/15/65115	112-72	55	Rivet, Iron, Csk., $\frac{1}{8}$ " x $\frac{1}{2}$ " ...	"	6	
9/15/65420	341-1657		Plate, Identification... ..	"	12	
9/15/65437	341-1658		Plate, Number ... ..	"	1	
	109-422		Rivet, Bifurcated, $\frac{1}{8}$ " x $\frac{7}{16}$ " ...	"	1	
9/15/65118	V38052	57	Cover ... ..	"	6	Copper
9/15/65119	Z51738	58	<b>Felt Seal, <math>8\frac{1}{8}</math>" Long</b> ... ..	"	1	
9/15/65120	Z51739	59	<b>Felt Seal, <math>19\frac{3}{8}</math>" Long</b> ... ..	"	2	
	90-34		Locknut, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65121	V38044	60	Boss, Thumb Screw ... ..	"	1	Cover
9/15/65424	114-188	61	Rivet, Snap Hd., $\frac{5}{32}$ " x $\frac{5}{16}$ " ... ..	"	4	
9/15/65123	A74103	62	Nut, Special, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65124	Z48801	63	Circlip ... ..	"	1	
9/15/65425	V38066	64	Block, Manifold ... ..	V7534	1	
9/15/65426	V1/38005		Block, Manifold ... ..	V7537		
9/15/65427	Z51787		<b>Joint...</b> ... ..	"	1	
9/15/65126	Z1/44569		Plug, Special... ..	V7534, V7537	6	
	117-83	66	Screw, Csk., $\frac{5}{16}$ " B.S.F. x $\frac{3}{4}$ " ... ..	"	3	
9/15/65127	124-158	67	Stud, $\frac{3}{8}$ " B.S.F. x $1\frac{1}{8}$ ", Special ... ..	"	4	Manifold Block
	85-34	68	Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4	
	135-34	69	Washer, Grover, $\frac{3}{8}$ " ... ..	"	4	
9/15/65128	Z3/10201	70	<b>Bush</b> ... ..	"	12	
9/15/65429	V1/38001	71	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	V7534	4	A.E.I. Type TE.505 Form 4 Magnet Valve A.E.I. Y.2421349
9/15/65430	V1/38004		<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	V7537		
9/15/65137	V38046	72	Plate, Blanking ... ..	V7534	2	Casing
9/15/65438	V1/38003		Plate, Blanking ... ..	V7537		
9/15/65132	Z51741	73	<b>Gasket, A.E.I. X.1216778-1</b> ... ..	V7534	6	
9/15/65431	Z51786		<b>Gasket, A.E.I. Type TE.514 Form L</b> ... ..	V7537		
9/15/65134	Z12/30760	75	Bolt, Special, $\frac{3}{8}$ " B.S.F. x 2", Drilled ... ..	V7534	8	Electric Pneumatic Valves and Blanking Plates
9/15/65433	Z12/30770		Bolt, Special, $\frac{3}{8}$ " B.S.F. x $2\frac{1}{8}$ ", Drilled ... ..	V7537		
9/15/35459	Z11/30783		Bolt, Special, $\frac{3}{8}$ " B.S.F. x 1", Drilled ... ..	V7534, V7537		
	Z4/30696	76	Washer, $\frac{3}{8}$ " Grover... ..	"	12	
9/15/65434	V38089		Support, Control Wiring ... ..	"	1	
9/15/65135	331-49	77	Plug, $\frac{3}{8}$ " Gas... ..	"	2	Casing
9/15/65136	331-48	78	Plug, $\frac{1}{4}$ " Gas ... ..	"	6	

NOTE:—DTOI/45—V7537—4 off total per Order

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65439	UI84945	R4	<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65417	V7522 V38084	52	<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 5 VALVES</b> ... ..	DT01/26, 1/32	1	
9/15/65423	Z8/30566	53	<b>VALVE CASING WITH STIFFENERS</b> ... ..	"	1	Not supplied as Spares
9/15/65114	V38043	54	Casing ... ..	"	1	
9/15/65115	112-72	55	Stud, Special, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65420	341-1657		Bar, Locating ... ..	"	6	
9/15/65440	UI82507		Rivet, Iron, Csk., $\frac{1}{8}$ " x $\frac{1}{2}$ " ... ..	"	12	
	108-63		Plate, Identification ... ..	"	1	
	V38052	57	Plate, Number ... ..	"	1	
9/15/65118	Z51738	58	Rivet, Snap Hd., $\frac{3}{32}$ " x $\frac{3}{8}$ " ... ..	"	6	Copper
9/15/65119	Z51739	59	Cover ... ..	"	1	
9/15/65120	90-34		<b>Felt Seal, Length 8<math>\frac{1}{8}</math>"</b> ... ..	"	2	
9/15/65121	V38044	60	<b>Felt Seal, Length 19<math>\frac{3}{8}</math>"</b> ... ..	"	2	
9/15/65424	114-188	61	Locknut, $\frac{7}{16}$ " B.S.F. ... ..	"	1	
9/15/65123	A74103	62	Boss, Thumb Screw ... ..	"	1	
9/15/65124	Z48801	63	Rivet, Snap Hd., $\frac{5}{32}$ " x $\frac{5}{8}$ " ... ..	"	4	Mild Steel
9/15/65125	V38051	64	Nut, Special, $\frac{7}{16}$ " B.S.F. ... ..	"	1	} Cover
	117-83	66	Circlip, Special, 19 m/m. Dia. ... ..	"	1	
9/15/65127	124-158	67	Block, Manifold ... ..	"	1	
	85-34	68	Screw, Csk., $\frac{5}{16}$ " B.S.F. x $\frac{3}{4}$ " ... ..	"	3	
	135-34	69	Stud, $\frac{3}{8}$ " B.S.F. x 1 $\frac{7}{8}$ ", Special ... ..	"	4	} Manifold Block
9/15/65128	Z3/10201	70	Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4	
9/15/65130	V38007	71	Washer, Grover, $\frac{3}{8}$ " ... ..	"	4	
			<b>Bush</b> ... ..	"	10	
9/15/65441	UI84944		<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	4	"On" Type A.E.I. W.1363147
9/15/65137	V38046	72	<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	1	"Off" Type A.E.I. TE.510 Form B. Magnet Valve Casing
9/15/65132	Z51741	73	Plate, Blanking ... ..	"	1	
9/15/65131	Z51740	74	<b>Gasket, A.E.I. X.1216778-1</b> ... ..	"	5	
			<b>Gasket, A.E.I. X.1216778-12</b> ... ..	"	1	
9/15/65134	Z12/30760		Bolt, Special, $\frac{3}{8}$ " B.S.F. x 2", Drilled ... ..	"	8	Use with UI84944
9/15/65133	Z12/30763	75	Bolt, Special, $\frac{3}{8}$ " B.S.F. x 2 $\frac{1}{2}$ ", Drilled ... ..	"	2	Use with V38007
9/15/35459	Z11/30783		Bolt, Special, $\frac{3}{8}$ " B.S.F. x 1", Drilled ... ..	"	2	Use with UI84944
	Z4/30696	76	Washer, $\frac{3}{8}$ " Grover ... ..	"	2	Use with V38046
9/15/65138	V38036		Support, Control Wiring ... ..	"	12	} Electric Pneumatic Valves and Blanking Plate
9/15/65135	331-49	77	Plug, $\frac{3}{8}$ " Gas ... ..	"	1	
9/15/65136	331-48	78	Plug, $\frac{1}{4}$ " Gas ... ..	"	2	
				"	6	} Casing

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
			<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65442	V7553		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 6 VALVES</b> ... ..	DT01/49	1	
9/15/65443	V7552		<b>VALVE CASING WITH STIFFENERS</b> ... ..	"	1	
	V1/38023		Casing, Bare ... ..	"	1	Not supplied as Spares
9/15/65114	V38043		Bar, Locating ... ..	"	6	
9/15/65115	112-72		Rivet, Iron, Csk., $\frac{1}{8}'' \times \frac{1}{2}''$ ... ..	"	12	
9/15/65419	341-1656		Plate, Identification ... ..	"	1	
9/15/65421	341-1659		Plate, Number ... ..	"	1	
	109-422		Rivet, Bifurcated, $\frac{1}{8}'' \times \frac{7}{16}''$ ... ..	"	6	Copper
9/15/65118	V38052		Cover ... ..	"	1	
9/15/65119	Z51738		<b>Felt Seal, Length <math>8\frac{1}{8}''</math></b> ... ..	"	2	
9/15/65120	Z51739		<b>Felt Seal, Length <math>19\frac{3}{8}''</math></b> ... ..	"	2	
9/15/65423	Z8/30566		Stud, Special, $\frac{7}{16}''$ B.S.F. ... ..	"	1	
	90-34		Locknut, $\frac{7}{16}''$ B.S.F. ... ..	"	1	
9/15/65121	V38044		Boss, Thumb Screw ... ..	"	1	
9/15/65424	114-188		Rivet, Snap Hd., $\frac{5}{32}'' \times \frac{5}{8}''$ ... ..	"	4	Mild Steel
9/15/65444	V1/38019		Nut, Special, $\frac{7}{16}''$ B.S.F. Thumb Screw ... ..	"	1	
9/15/65124	Z48801		Circlip, Special, 19 m/m. ... ..	"	1	
9/15/65445	V7555		<b>MANIFOLD COMPLETE WITH ELECTRIC PNEUMATIC VALVES</b> ... ..	"	1	
			Manifold ... ..	"	1	Bellows Valvair Ltd.
9/15/65446	V1/38014		<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	6	Bellows Valvair Ltd.
9/15/65447	V1/38015		<b>ELECTRIC PNEUMATIC VALVE</b> ... ..	"	1	Bellows Valvair Ltd.
	117-83		Screw, Csk., $\frac{5}{16}''$ B.S.F. $\times \frac{3}{4}''$ ... ..	"	3	
9/15/65448	124-162		Stud, $\frac{3}{8}''$ B.S.F. $\times 2\frac{3}{8}''$ , Special ... ..	"	4	Electric Pneumatic Valve
	85-34		Nut, Plain, $\frac{3}{8}''$ B.S.F. ... ..	"	4	
	135-34		Washer, Grover, $\frac{3}{8}''$ ... ..	"	4	
9/15/65135	331-49		Plug, $\frac{3}{8}''$ Gas ... ..	"	2	Casing
9/15/65136	331-48		Plug, $\frac{1}{4}''$ Gas ... ..	"	6	
9/15/65449	V1/38024		<b>Gasket</b> ... ..	"	1	
9/15/65450	V1/38025		Strip, Blanking ... ..	"	2	Manifold
	143-18		Screw, Ch. Hd., No. 2 B.A. $\times \frac{1}{2}''$ ... ..	"	4	
	135-61		Washer, Shakeproof, $\frac{3}{16}''$ Internal ... ..	"	4	
9/15/65451	V1/38016		Block Terminal ... ..	"	1	
9/15/65452	V1/38022		Spacer ... ..	"	2	
9/15/65453	39-21		Bolt, $\frac{1}{4}''$ B.S.F. $\times 3\frac{1}{4}''$ , Special, Drilled ... ..	"	2	Terminal Block
	Z2/32045		Nut, $\frac{1}{4}''$ B.S.F. Plain ... ..	"	4	
	Z4/30691		Washer, $\frac{1}{4}''$ Steel, Bright ... ..	"	2	
9/15/65454	V1/38018		Plate, Terminal ... ..	"	1	
	426-74		Tag, Terminal ... ..	"	12	
	Z16/30798		Screw, 2 B.A. Cheese Hd., $1\frac{1}{2}''$ Long ... ..	"	7	
	Z21/30728		Screw, 2 B.A. Cheese Hd., $1\frac{3}{4}''$ Long ... ..	"	1	
	Z2/32056		Nut, 2 B.A. ... ..	"	15	Terminal
	Z2/32057		Locknut, Special ... ..	"	8	
	Z5/30602		Washer, $\frac{3}{16}''$ Steel, Bright ... ..	"	38	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65456	V7554		<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65443	V7552		<b>ELECTRIC PNEUMATIC VALVE COMPLETE, 4 VALVES ...</b>	DTOI/49	1	
	V1/38023		<b>VALVE CASING WITH STIFFENERS ...</b>	"	1	
9/15/65114	V38043		Casing, Bare ...	"	1	Not supplied as Spares
9/15/65115	112-72		Bar, Locating ...	"	6	
9/15/65420	341-1657		Rivet, Iron, Csk., $\frac{1}{8} \times \frac{1}{2}$ " ...	"	12	
9/15/65437	341-1658		Plate, Identification ...	"	1	
	109-422		Plate, Number ...	"	1	
9/15/65118	V38052		Rivet, Bifurcated, $\frac{1}{8} \times \frac{7}{16}$ " ...	"	6	Copper
9/15/65119	Z51738		Cover ...	"	1	
9/15/65120	Z51739		<b>Felt Seal, Length <math>8\frac{1}{8}</math>"</b> ...	"	2	
9/15/65423	Z8/30566		<b>Felt Seal, Length <math>19\frac{3}{8}</math>"</b> ...	"	2	
	90-34		Stud, Special, $\frac{7}{16}$ " B.S.F. ...	"	1	} Cover
9/15/65121	V38044		Locknut, $\frac{7}{16}$ " B.S.F. ...	"	1	
9/15/65424	114-188		Boss, Thumb Screw ...	"	1	
9/15/65444	V1/38019		Rivet, Snap Hd., $\frac{3}{32} \times \frac{3}{8}$ " ...	"	4	Mild Steel
9/15/65124	Z48801		Nut, Special, Thumb Screw, $\frac{7}{16}$ " B.S.F. ...	"	1	
9/15/65550	V7556		Circlip, Special, 19 m/m. ...	"	1	
			<b>MANIFOLD COMPLETE WITH ELECTRIC PNEUMATIC VALVES ...</b>			
9/15/65446	V1/38014		Manifold ...	"	1	Bellows Valvair Ltd.
9/15/65447	V1/38015		<b>ELECTRIC PNEUMATIC VALVE</b> ...	"	1	Bellows Valvair Ltd.
	117-83		Screw, Csk., $\frac{5}{16}$ " B.S.F. $\times \frac{3}{4}$ " ...	"	4	Bellows Valvair Ltd.
9/15/65448	124-162		Stud, $\frac{3}{8}$ " B.S.F. $\times 2\frac{3}{8}$ ", Special ...	"	3	} Electric Pneumatic Valve
	85-34		Nut, Plain, $\frac{3}{8}$ " B.S.F. ...	"	4	
	135-34		Washer, Grover, $\frac{3}{8}$ " ...	"	4	
9/15/65135	331-49		Plug, $\frac{3}{8}$ " Gas ...	"	2	
9/15/65136	331-48		Plug, $\frac{1}{4}$ " Gas ...	"	6	} Casing
9/15/65449	V1/38024		<b>Gasket</b> ...	"	1	
9/15/65450	V1/38025		Strip, Blanking ...	"	2	} Manifold
	143-18		Screw, Ch. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ...	"	4	
	135-61		Washer, Shakeproof, $\frac{3}{16}$ " Internal ...	"	4	
9/15/65457	V1/38017		Block, Terminal ...	"	1	} Terminal Block
9/15/65452	V1/38022		Spacer ...	"	2	
9/15/65453	39-21		Bolt, $\frac{1}{2}$ " B.S.F. $\times 3\frac{1}{2}$ ", Special, Drilled ...	"	2	
	Z2/32045		Nut, $\frac{1}{2}$ " B.S.F., Plain ...	"	4	
	Z4/30691		Washer, $\frac{1}{2}$ ", Steel, Bright ...	"	2	
9/15/65454	V1/38018		Plate, Terminal ...	"	1	
	426-74		Tag, Terminal ...	"	8	} Terminal
	Z16/30798		Screw, 2 B.A., Ch. Hd., $1\frac{1}{2}$ " Long ...	"	5	
	Z21/30728		Screw, 2 B.A., Ch. Hd., $1\frac{1}{2}$ " Long ...	"	1	
	Z2/32056		Nut, 2 B.A. ...	"	11	
9/15/65455	Z2/32057		Locknut, Special ...	"	6	
	Z5/30602		Washer, $\frac{1}{16}$ ", Steel, Bright ...	"	28	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R6</b>	<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65458	R3107		<b>THROTTLE MOTOR COMPLETE</b> ... ..	DTOI/12, 1/16, 1/17, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/31, 1/33, 1/32, 1/34, 1/40, 1/51, 1/56, 1/57	2 (See Note below)	
9/15/65459	R3109		<b>THROTTLE MOTOR COMPLETE</b> ... ..	DTOI/13, 1/15, 1/14, 1/18, 1/21, 1/28, 1/30, 1/38, 1/39, 1/41, 1/49		
9/15/65460 9/15/65461	R3110 R3203		<b>THROTTLE MOTOR COMPLETE</b> ... .. <b>THROTTLE MOTOR HOUSING WITH STUDS AND DOWEL</b> ... ..	DTOI/35, 1/45 R3107, R3109, R3110		2
	R1/32425	1	Housing ... ..	"	2	Not supplied as Spares
9/15/65462	Z8/30590	2	Stud, Special, $\frac{1}{4}$ " B.S.F., $1\frac{1}{2}$ " Long	"	4	} Side and End Cover
9/15/65463	Z8/30568	3	Stud, Special, $\frac{1}{4}$ " B.S.F., 1" Long	"	16	
9/15/65477	Z8/30567	4	Stud, Special, $\frac{1}{4}$ " B.S.F., $1\frac{1}{8}$ " Long	"	16	Air Cylinder
9/15/65464	Z2/44025	5	Dowel ... ..	"	4	
9/15/65465	124-154	6	Stud, $\frac{3}{8}$ " B.S.F. x $1\frac{3}{8}$ ", Special	"	8	} Housing
	85-34	7	Nut, Plain, $\frac{3}{8}$ " B.S.F.	"	8	
	135-34	8	Washer, Grover, $\frac{3}{8}$ "	"	8	
9/15/65466	R3206		<b>AIR CYLINDER COMPLETE</b> ... ..	R3107	8	} "L" Type Motor only. Valve Adaptor turned through 180°
9/15/65467	R3208		<b>AIR CYLINDER COMPLETE</b> ... ..	R3109, R3110		
9/15/65468	R3204		<b>AIR CYLINDER WITH BUSH AND STUDS</b> ... ..	R3206, R3208	8	
9/15/65469	R3205		<b>AIR CYLINDER WITH BUSH</b> ... ..	"	8	
9/15/65470	R1/32438	9	Air Cylinder ... ..	"	8	Not supplied as Spares
9/15/65471	Z4/10215	10	Bush ... ..	"	8	
9/15/65463	Z8/30568	11	Stud, Special, $\frac{1}{4}$ " B.S.F., 1" Long	"	24	Air Cylinder Cover
9/15/65472	S2/13399	12	Adaptor ... ..	"	8	} Air Cylinder
9/15/65473	138-224	} 13	Washer, Copper, $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ ", Special	"	8	
9/15/65474	138-227		Washer, Copper, $\frac{3}{16}$ " x $\frac{1}{2}$ " x 24 l.v.g., Special	"	As req.	
9/15/65156	81-1994	14	Adaptor, Valve ... ..	"	8	Tecalemit Y.28275 (mod.)
9/15/65475	138-133	15	Washer, Copper, 17 x 23 x 2 m/m., Special	"	8	
9/15/65476	81-1302	16	Lubricator, Tecalemit NA5801-1	"	8	
9/15/65478	D40622	17	Piston ... ..	R3107, R3109, R3110	8	
9/15/65479	G27225	18	Cup, Piston ... ..	"	8	
9/15/65480	Z4/46549	19	Shim ... ..	"	As req.	} Piston Cup
9/15/65481	Z6/30697	20	Washer, Special, $\frac{3}{4}$ " O/D., $\frac{2}{16}$ " I/D. x $\frac{5}{32}$ "	"	8	
	90-153	21	Locknut, $\frac{5}{8}$ " B.S.F., "Simmonds"	"	8	
9/15/65482	R1/32430	22	Cover, Cylinder ... ..	"	8	} Cover to Air Cylinder
9/15/65483	Z44245	23	Joint ... ..	"	8	
	85-32	24	Nut, Plain, $\frac{1}{4}$ " B.S.F.	"	24	
	135-32	25	Washer, Grover, $\frac{1}{4}$ "	"	24	
9/15/65484	R1/10400	26	Shaft ... ..	"	2	} Throttle Motor Shaft
	157-3	27	Key, Woodruff, No. 3	"	10	
9/15/65485	Z8/44889	28	Boss, 1.577" ... ..	"	6	
9/15/65486	Z8/44884	29	Boss, 0.825" ... ..	"	2	

NOTE:—R3107 and Fittings supplied on 24 Power Cars of DTOI/14.  
R3110 on DTOI/50, 1/53 supplied by Albion Motors.

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R6</b>	<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65487	R3/11232	30	<b>THROTTLE MOTOR—Continued</b>			
9/15/65488	40-36	31	Lever... ..	R3107, R3109	2	End Cover
	85-33	32	Bolt, $\frac{5}{16}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special, Drilled ... ..	"	2	Lever to Shaft
	135-33	33	Nut, Plain, $\frac{5}{16}$ " B.S.F. ... ..	"	2	
9/15/65489	Z2/10100	34	Washer, Grover, $\frac{5}{16}$ " ... ..	"	2	
			<b>Bush</b> ... ..	R3107, R3109, R3110	4	
9/15/65490	R3/11225	35	Lever... ..	"	8	Air Cylinder
9/15/65491	R1/32427	36	Cover, End ... ..	"	2	Throttle Motor
9/15/65492	R1/32428	37	Cover, Side ... ..	"	2	
	85-32	38	Nut, Plain, $\frac{5}{16}$ " B.S.F. ... ..	"	20	Cover to Housing
	135-32	39	Washer, Grover, $\frac{5}{16}$ " ... ..	"	4	
	135-2	40	Washer, Thackray, $\frac{5}{16}$ " ... ..	"	16	
9/15/65493	R3/11224	41	Lever... ..	R3107, R3109	2	Control Cable Support End
9/15/61028	40-36	42	Bolt, $\frac{5}{16}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special, Drilled ... ..	"	2	Lever to Shaft
	85-33	43	Nut, Plain, $\frac{5}{16}$ " B.S.F. ... ..	"	2	
	135-33	44	Washer, Grover, $\frac{5}{16}$ " ... ..	"	2	
9/15/65494	Z4/46517	45	Shim, 0.005" ... ..	R3107, R3109 R3110	As req.	Throttle Motor Shaft
9/15/65495	Z4/46518		Shim, 0.010" ... ..			
9/15/65496	Z4/46519	46	Shim, 0.015" ... ..	"	2	Piston Stop
9/15/40192	Z8/44885	47	Distance Piece ... ..	"	4	
9/15/65497	Z4/43706	48	Setscrew, Special, $\frac{3}{16}$ " B.S.F. $\times$ $\frac{7}{8}$ " ... ..	"	4	Air Cylinder
9/15/65498	Z4/43707	49	Setscrew, Special, $\frac{3}{16}$ " B.S.F. $\times$ $1\frac{1}{4}$ " ... ..	"	8	
	90-33	50	Locknut, $\frac{3}{8}$ " B.S.F. ... ..	"	16	
	85-33	51	Nut, Plain, $\frac{5}{16}$ " B.S.F. ... ..	"	16	Control Cable
9/15/65499	R13548	52	Washer, Plain, $\frac{5}{16}$ " ... ..	R3107	2	
9/15/65505	R13551		Plate, Support ... ..			
9/15/65500	R13550	53	Plate, Support ... ..	R3109	2	Pull Off Spring
	121-124	54	Plate, Support ... ..	"	2	
	121-123		55	Setscrew, $\frac{3}{8}$ " B.S.F. $\times$ $\frac{7}{8}$ " ... ..	R3107	4
	135-34		Setscrew, $\frac{3}{8}$ " B.S.F. $\times$ $\frac{3}{4}$ " ... ..	R3109	4	
9/15/65501	R6414		Washer, Grover, $\frac{3}{8}$ " ... ..	R3107, R3109	4	Not req. on 20 Power Cars of DTO1/12 Fitted to 24 Power Cars of DTO1/14
			<b>SUPPORT BRACKET COMPLETE</b> ... ..	DT01/12, 1/16, 1/22, 1/23, 1/25, 1/26, 1/27, 1/31, 1/32, 1/34, 1/51, 1/55, 1/56, 1/57	2	
9/15/94087	41-65		Bolt, $\frac{3}{8}$ " B.S.F. $\times$ $1\frac{1}{2}$ ", Special, Drilled ... ..	"	4	To locate Bracket before welding to Underframe
9/15/65502	85-34		Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	4	
	R13549		Support... ..	DT01/13, 1/15, 1/14, 1/18, 1/24, 1/28, 1/30, 1/38, 1/39, 1/41, 1/49	4	Throttle Motor
9/15/65178	41-62		Bolt, $\frac{3}{8}$ " B.S.F. $\times$ $1\frac{1}{8}$ ", Drilled, Special ... ..	"	8	Support to Frame
	85-34		Nut, Plain, $\frac{3}{8}$ " B.S.F. ... ..	"	8	
	135-34		Washer, Grover, $\frac{3}{8}$ " ... ..	"	8	
9/15/65503	Z1/45206		<b>Spring</b> ... ..	"	2	Control Rod
9/15/65504	Z5/31374		Clip ... ..	"	2	
9/15/56758	121-104		Setscrew, $\frac{1}{4}$ " B.S.F. $\times$ $\frac{3}{4}$ " ... ..	"	2	Spring
	85-32		Nut, Plain, $\frac{1}{4}$ " B.S.F. ... ..	"	2	
	135-32		Washer, Grover, $\frac{1}{4}$ " ... ..	"	2	
9/15/46527	Z12/30769		Screw, Special, 2 B.A. $\times$ $1\frac{1}{4}$ " ... ..	DT01/12, 1/13, 1/15, 1/14, 1/16, 1/17, 1/18, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/30, 1/31, 1/32, 1/33, 1/34, 1/38, 1/39, 1/40, 1/41, 1/49, 1/51, 1/56, 1/57	4	Control Cable
	149-14		Nut, Plain, No. 2 B.A. ... ..	"	4	
	153-19		Washer, Grover, $\frac{3}{16}$ " ... ..	"	4	



B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
		<b>R6</b>	<b>CONTROL GEAR—Continued</b>			
9/15/65505	R3114		<b>THROTTLE MOTOR COMPLETE ...</b>	DTOI/43, 1/44, 1/48	1	(Power Cars)
9/15/65506	R3210		<b>THROTTLE MOTOR HOUSING WITH STUDS AND DOWEL ...</b>		1	
	R1/32425	1	Housing ...		1	
9/15/65463	Z8/30568	3	Stud, Special, $\frac{1}{4}'' \times 1''$ Long ...		10	Not supplied as Spares
9/15/65477	Z8/30567	4	Stud, Special, $\frac{1}{4}'' \times 1\frac{1}{8}''$ Long ...		8	Side and End Cover
9/15/65464	Z2/44025	5	Dowel ...		2	Air Cylinder
9/15/65465	124-154	6	Stud, $\frac{3}{8}''$ B.S.F. $\times 1\frac{3}{8}''$ , Special ...		4	} Housing
9/15/64230	124-155		Stud, $\frac{3}{8}''$ B.S.F. $\times 1\frac{1}{2}''$ , Special ...		2	
9/15/65507	124-156		Stud, $\frac{3}{8}''$ B.S.F. $\times 1\frac{3}{8}''$ , Special ...		2	
	85-34	7	Nut, Plain, $\frac{3}{8}''$ B.S.F. ...		8	
	135-34	8	Washer, Grover, $\frac{3}{8}''$ ...		8	
9/15/65467	R3208		<b>AIR CYLINDER COMPLETE</b>		4	
9/15/65468	R3204		<b>AIR CYLINDER WITH BUSH AND STUDS</b>		4	
9/15/65469	R3205		<b>AIR CYLINDER WITH BUSH</b>		4	
9/15/65470	R1/32438	9	Air Cylinder ...		4	Not supplied as Spares
9/15/65471	Z4/10215	10	Bush ...		4	
9/15/65463	Z8/30568	11	Stud, Special, $\frac{1}{4}''$ B.S.F., 1" Long ...		12	Air Cylinder Cover
9/15/65472	S2/13399	12	Adaptor ...		4	
9/15/65473	138-224	13	Washer, Copper, $\frac{1}{2}'' \times \frac{3}{16}'' \times \frac{1}{8}''$ , Special ...		4	} Air Cylinder
9/15/65474	138-227		Washer, Copper, $\frac{1}{2}'' \times \frac{1}{8}'' \times 24$ I.W.G., Special ...		4	
9/15/65156	81-1994	14	Adaptor, Valve ...		4	Tecalemit Y.28275 (mod.)
9/15/65475	138-133	15	Washer, Copper, 17 $\times$ 23 $\times$ 2 m/m., Special ...		4	
9/15/65476	81-1302	16	Lubricator, Tecalemit NA5801-1 ...		4	
9/15/65478	D40622	17	<b>Piston</b> ...		4	
9/15/65479	G27225	18	<b>Cup, Piston</b> ...		4	
9/15/65480	Z4/46549	19	Shim ...		As req.	} Piston Cup
9/15/65481	Z6/30697	20	Washer, Special, $\frac{3}{8}''$ O/D., $\frac{3}{16}'' \times \frac{1}{4}''$ I/D., $\frac{5}{32}''$ ...		4	
	90-153	21	Locknut, $\frac{5}{16}''$ B.S.F., "Simmonds" ...		4	
9/15/65482	R1/32430	22	Cover, Cylinder ...		4	
9/15/65483	Z44245	23	<b>Joint</b> ...		4	
	85-32	24	Nut, Plain, $\frac{1}{4}''$ B.S.F. ...		12	} Cover to Air Cylinder
	135-32	25	Washer, Grover, $\frac{1}{4}''$ ...		12	
9/15/65484	R1/10400	26	Shaft ...		1	
	157-3	27	Key, Woodruff, (No. 3) ...		5	
9/15/65485	Z8/44889	28	Boss, 1-577" ...		3	} Throttle Motor Shaft
9/15/65486	Z8/44884	29	Boss, 0-825" ...		1	
9/15/65489	Z2/10100	34	<b>Bush</b> ...		2	
9/15/65490	R3/11225	35	Lever ...		4	Air Cylinder
9/15/65491	R1/32427	36	Cover, End ...		1	} Throttle Motor
9/15/65492	R1/32428	37	Cover, Side ...		1	
	85-32	38	Nut, Plain, $\frac{1}{4}''$ B.S.F. ...		10	
	135-32	39	Washer, Grover, $\frac{1}{4}''$ ...		2	} Cover to Housing
	135-2	40	Washer, Thackray, $\frac{1}{4}''$ ...		8	
9/15/65494	Z4/46517	45	Shim, 0-005" ...		As req.	} Throttle Motor Shaft
9/15/65495	Z4/46518		Shim, 0-010" ...			
9/15/65496	Z4/46519		Shim, 0-015" ...			
9/15/40192	Z8/44885		Distance Piece ...			
9/15/65497	Z4/43706	47	Setscrew, Special, $\frac{3}{16}''$ B.S.F. $\times \frac{7}{8}''$ ...		2	} Piston Stop
9/15/65498	Z4/43707	48	Setscrew, Special, $\frac{3}{16}''$ B.S.F. $\times 1\frac{1}{4}''$ ...		2	
	90-33	49	Locknut, $\frac{3}{8}''$ B.S.F. ...		4	
	85-33	50	Nut, Plain, $\frac{5}{16}''$ B.S.F. ...		8	} Air Cylinder
	134-3	51	Washer, Plain, $\frac{5}{16}''$ ...		8	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65205	5110-1		<b>CONTROL GEAR—Continued</b> <b>FLOAT SWITCH COMPLETE, MOBREY TYPE SOIA/FO2A</b> ... ..	Not DTO1/28A, 1/35, 1/42, 1/48, 1/52	2	(Power Cars only except where otherwise stated)
9/15/65508	5111-3		<b>ENGINE RELAY BOX COMPLETE, J. STONE (DEPTFORD)</b> ... ..	DTO1/26, 1/32	1	
9/15/65509	5111-12		<b>ENGINE RELAY BOX COMPLETE, J. STONE (DEPTFORD)</b> ... ..	DTO1/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/39, 1/40, 1/41, 1/41A, 1/44, 1/45, 1/49, 1/50, 1/51, 1/54, 1/55, 1/56, 1/57	2	
9/15/65510	5111-13		<b>ENGINE RELAY BOX COMPLETE, J. STONE (DEPTFORD), T4276</b> ...	DTO1/43	2	
9/15/65511	546-1717		<b>ENGINE RELAY BOX COMPLETE, C.A.V. No. V5994/1</b> ... ..	DTO1/38, 1/52	2	
9/15/65512	5111-4		<b>ELECTRIC PNEUMATIC RELAY BOX COMPLETE, J. STONE (DEPT-FORD), T3631</b> ... ..	DTO1/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/39, 1/40, 1/41, 1/41A, 1/44, 1/45, 1/49, 1/50, 1/51, 1/53, 1/54, 1/55, 1/56, 1/57	2	
9/15/65513	5111-14		<b>ELECTRIC PNEUMATIC RELAY BOX COMPLETE, J. STONE (DEPT-FORD), T4277</b> ... ..	DTO1/43	2	
9/15/65514	546-1716		<b>ELECTRIC PNEUMATIC RELAY BOX COMPLETE, C.A.V. No. V5992/1</b> ...	DTO1/38, 1/52	2	
9/15/63797	415-102		<b>ENGINE ISOLATING SWITCH, WALL-SALL No. 3062</b> ... ..	Not DTO1/26, 1/28A, 1/32, 1/35, 1/42, 1/48, 1/53	2	
9/15/63777	546-1198		Switch, Press Button, C.A.V. No. 108-3 ...	Not DTO1/28A, 1/35, 1/42, 1/48	1	Deadman's Cancellation (Power and Trailer Cars)
9/15/63784	546-1170		<b>BATTERY ISOLATING SWITCH, C.A.V. No. 134-18</b> ... ..	Not DTO1/28, 1/28A, 1/35, 1/42, 1/43, 1/45, 1/50, 1/53	1	(See Note below)
9/15/65515	U182532		<b>BATTERY ISOLATING SWITCH, C.A.V. No. WN62/2361</b> ... ..	DTO1/28, 1/28A, 1/35, 1/42, 1/43, 1/45, 1/50, 1/53	1	
9/15/65516	5049-12		<b>ENGINE SPEED CONTROL BOX, Smiths No. 4301-304B</b> ... ..	Not DTO1/24, 1/28A, 1/35, 1/42, 1/44, 1/48, 1/53	2	Not req. on 20 Power Cars of DTO1/12
9/15/65517	5049-27		<b>COMBINED STARTER, CONTROL AND FIRE ALARM SWITCH, SMITHS</b> ...	DTO1/53	2	DS TRB-841
9/15/65518	546-1414		<b>12-WAY RELAY OPERATED SWITCH PANEL, MAGNETIC DEVICES LTD. No. 9280300</b> ... ..	DTO1/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/24	1	(Power and Trailer Cars)
9/15/65519	546-1426		<b>18-WAY RELAY OPERATED SWITCH PANEL, MAGNETIC DEVICES LTD. No. 9287001</b> ... ..	DTO1/18, 1/22, 1/21, 1/23, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/41A, 1/43, 1/44, 1/45, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/56	1	(Power and Trailer Cars)

**NOTE:—Quantity of 546-1198 doubled on all Power Cars of DTO1/57 (Double Ended Cars)**

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65520	V7549		<b>CONTROL GEAR—Continued</b> <b>LOCAL CONTROL BOX COMPLETE</b> ...	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/51	2	(Power Cars)
9/15/65521	V7531		<b>LOCAL CONTROL BOX COMPLETE</b> ...	DT01/53, 1/56	2	
9/15/63785	V38079		Casing ... ..	V7549, V7531	2	(Start)—4 off on V7531
9/15/65522	546-1431		<b>Switch, Press Button, C.A.V. No. 221/8</b> ...	V7549	2	
9/15/65523	V1/38007		Plate, Blanking ... ..	V7531	2	
9/15/65524	V1/38008		Joint... ..	"	2	
9/15/63789	546-1394		<b>Switch, Press Button, C.A.V. No. 108/4</b> ...	V7549, V7531	4	Stop
9/15/63790	146-12		Screw, Rd. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	16	
9/15/65525	499-3692		Socket, Flanged, 5 amp., 2 Pin ... ..	"	2	
9/15/65526	Z44115		Gasket ... ..	"	2	
	145-36		Screw, Csk., No. 4 B.A. $\times \frac{3}{4}$ " ... ..	"	6	
	149-16		Nut, Plain, No. 4 B.A. ... ..	"	6	
	135-102		Washer, Shakeproof, $\frac{1}{8}$ " External ... ..	"	6	
9/15/63786	V38080		Cover ... ..	"	2	
	145-78		Screw, Raised Csk. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	8	Cover
9/15/65527	V7529		<b>LOCAL CONTROL BOX COMPLETE</b> ...	DT01/26, 1/32	2	
9/15/65528	V38092		Casing ... ..	"	2	
9/15/63788	546-1393		<b>Switch, Press Button, C.A.V. No. 108/43</b> ...	"	4	Start
	546-1394		<b>Switch, Press Button, C.A.V. No. 108/4</b> ...	"	4	Stop
	146-12		Screw, Rd. Hd., No. 2 B.A. $\times \frac{1}{2}$ " ... ..	"	16	
9/15/65529	V38093		Cover ... ..	"	2	
	145-80		Screw, Raised Csk. Hd., No. 2 B.A. $\times \frac{3}{4}$ " ...	"	8	Cover

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks
9/15/65206	5004-11		<b>CONTROL GEAR—Continued</b>			(Power Cars)
9/15/65207	5006-308		<b>AIR CLEANER AND ANTI-FREEZER, CLAYTON DEWANDRE AP.SA372-1 ...</b>	Not DTO1/26, 1/28A, 1/33, 1/35, 1/42, 1/48	2	
			<b>NON RETURN VALVE, CLAYTON DEWANDRE, AP.SA68 ...</b>	Not DTO1/26, 1/28A, 1/32, 1/35, 1/42, 1/43, 1/48	2	
9/15/65208	5006-504		Body, Clayton AP5006-1 ...	"	2	
9/15/65209	5001-140		Trip Valve with Seat, Clayton AP.SA39 ...	"	2	
9/15/65210	5006-495		Spring, Clayton AP5134 ...	"	2	
9/15/65211	5001-143		Adaptor Nut, Clayton AP5484-1 ...	"	2	
9/15/65212	138-142		Washer, Copper, 30.5 x 38 x 2 m/m., Special ...	"	2	
9/15/65213	5006-505		Plate, Locking, Clayton SO2055 ...	"	2	
9/15/65214	5001-144		Screw, Clayton SF8-13 ...	"	2	
	135-32		Washer, Grover, 1/4" ...	"	2	
9/15/65215	GA0903		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE AND BLANKING PIECE ...</b>	DTO1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/30, 1/34, 1/38, 1/39, 1/41, 1/44, 1/45	1	
9/15/65216	GA0904		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE &amp; BLANKING PIECE</b>	DTO1/13, 1/21, 1/33, 1/40, 1/43	1	
9/15/65530	GA0906		<b>AIR RESERVOIR COMPLETE WITH SAFETY VALVE &amp; BLANKING PIECE</b>	DTO1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57	1	
9/15/65218	5006-442		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE AP.GA4624-1 ...</b>	GA0903	1	Green Unloader Valve
9/15/65219	5006-443		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE, AP.GA4624-2 ...</b>	GA0904	1	
9/15/65531	5006-449		<b>AIR RESERVOIR COMPLETE, CLAYTON DEWANDRE, AP.GA4641 ...</b>	GA0906	1	
	5021-583		<b>SAFETY VALVE COMPLETE, WESTINGHOUSE, A87644-1 ...</b>	GA0903, GA0904, GA0906	1	
	5021-83		Body, Westinghouse A74387 ...	"	1	
	5021-82		Valve, Westinghouse A74386 ...	"	1	
	5021-81		Pivot, Westinghouse A74385 ...	"	1	
	5021-84		Spring, Westinghouse A75028-1 ...	"	1	
	5021-85		Cap, Valve, Westinghouse A75062 ...	"	1	
	5021-87		Locknut, Special, Westinghouse A84202 ...	"	1	
	5021-333		Adaptor, Westinghouse A74804-2 ...	"	1	
	219-24		Wire, Locking, Iron, 18 I.W.G. ...	"	As req.	
9/15/65221	501-225		Seal, Lead ...	"	1	
9/15/65222	Z51779		Blanking Piece ...	"	1	
9/15/65532	28-32		Bolt, No. 2 B.A. x 3/4", Special, Drilled ...	"	4	Blanking Piece
	153-19		Washer, Grover, No. 2 B.A. ...	"	4	
9/15/65223	132-56		Nut, Union, Special ...	"	1	
9/15/65224	Z2/32014		Nut, Special, ...	"	1	Blanking (Unloader Valve)
9/15/65225	138-214		Washer, Copper, Special, 3/8" Dia x 2 m/m. ...	"	1	
9/15/65533	5006-425		Tap, Drain, Clayton AP.SA763 ...	GA0906	2	

B.R. Cat. No.	A.E.C. Part No.	Page No.	Designation	Used on	No. Req. per Control Gear	Remarks
<b>CONTROL GEAR—Continued</b>						
9/15 65226	5204-01		<b>AIR RESERVOIR COMPLETE, CLAYTON DEMANDRE AP.GA4460-1</b> ... ..	DT01/15, 1/12, 1/16, 1/18, 1/22, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/30, 1/34, 1/38, 1/39, 1/41, 1/44, 1/45	1	
9/15 65534	5204-02		<b>AIR RESERVOIR COMPLETE, CLAYTON DEMANDRE AP.GA4459-3</b> ... ..	DT01/13, 1/52		
9/15 65227	5204-03		<b>AIR RESERVOIR COMPLETE, CLAYTON DEMANDRE AP.GA4460</b> ... ..	DT01/14, 1/17, 1/21, 1/33, 1/40, 1/43	1	
9/15 65535	5204-04		<b>AIR RESERVOIR COMPLETE, CLAYTON DEMANDRE AP.GA4613</b> ... ..	DT01/26, 1/32		
9/15 65228	5204-05		<b>AUXILIARY AIR RESERVOIR, CLAYTON DEMANDRE AP.GA4459</b> ... ..	DT01/12, 1/15, 1/16, 1/17, 1/18, 1/22, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/30, 1/34, 1/38, 1/39, 1/41, 1/41A, 1/44, 1/45, 1/49, 1/50, 1/51, 1/53, 1/54, 1/55, 1/56, 1/57	1	
9/15 65536	5204-06		<b>AUXILIARY AIR RESERVOIR, CLAYTON DEMANDRE AP.GA4460-3</b> ... ..	DT01/13		
9/15 65229	5204-07		<b>AUXILIARY AIR RESERVOIR, CLAYTON DEMANDRE AP.GA4459</b> ... ..	DT01/14, 1/21, 1/33, 1/40	2	
9/15 65230	5204-08		<b>AIR FILTER COMPLETE, CLAYTON DEMANDRE AP.SA209-3</b> ... ..	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/31, 1/33, 1/32, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/41A, 1/43, 1/44, 1/45, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57		
9/15 65231	5204-09		<b>REDUCING VALVE COMPLETE, CLAYTON DEMANDRE AP.GA6154/2</b> ... ..	"	1	
9/15 65232	5204-10		<b>AIR PRESSURE SWITCH, BTH. TYPE PGS. FORM 82</b> ... ..	DT01/13, 1/15, 1/12, 1/14, 1/16, 1/17, 1/18, 1/22, 1/21, 1/23, 1/24, 1/25, 1/27, 1/28, 1/31, 1/33, 1/30, 1/34, 1/38, 1/40, 1/39, 1/41, 1/41A, 1/43, 1/44, 1/45, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57	1	
	5203-07		Coupling Cord, 8", Westinghouse ... ..	Use on Trailer and non Driving Trailer Cars	2	Type S.R. No. 543 Type M.B. 50822 Type M. No. G288
	5203-04		Hose Coupling, 8", Westinghouse ... ..		2	
	5203-08		Dummy Coupling, 8", Westinghouse ... ..		2	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Control Gear	Remarks	
	U192382		<b>CONTROL GEAR—Continued</b>				
	U192380		<b>SAND EJECTOR COMPLETE, WESTINGHOUSE No. B73753/1 ... ..</b>	DT01/45	44	These Quantities are total supplied for DT01/45	
	U192381		<b>AUXILIARY VALVE COMPLETE, WESTINGHOUSE No. A80031/2 ... ..</b>	"	11		
	U192379		<b>DUPLEX CHECK VALVE COMPLETE, WESTINGHOUSE No. B74160/2 ... ..</b>	"	5		
9/15/65537	U192378		<b>Hose, Flexible ... ..</b>	"	22		
9/15/65538	U192378		<b>THROTTLE CONTROLLER COMPLETE, SHARPS (SANDING) GA185 ... ..</b>	"	12		
9/15/63777	546-1198		<b>Switch, Press Button, C.A.V. No. 108-3 ... ..</b>	"	12		
9/15/65539	U189587		<b>ELECTRIC PNEUMATIC RELAY BOX COMPLETE, J. STONE (DEPTFORD) T4413 ... ..</b>	"	6		
9/15/65540	U184958		<b>AUTOMATIC GEAR CONTROLLER COMPLETE, SHARPS GA34 ... ..</b>	DT01/32	2		Automatic Gear Control on last Car only
9/15/65541	U184959		<b>ALTERNATOR COMPLETE, C.A.V. No. X LAB1470 ... ..</b>	"	1		
9/15/65542	U187420		<b>CONTROL UNIT COMPLETE, C.A.V. No. VN62-2467 ... ..</b>	"	1		
9/15/65543	U187464		<b>DRIVE CONTROLLER COMPLETE, SHARPS No. Q2769 ... ..</b>	DT01/42	1		

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