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Westinghouse Traction Brake Company

Pittsburgh, Pa., U. S. A.



DH-16 and DH-16-A Motor Driven Air Compressors

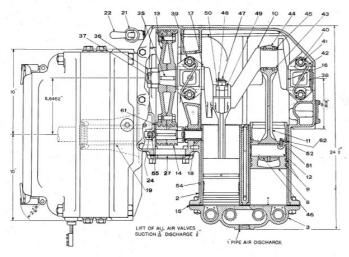
Part Catalog No. T 3504-1

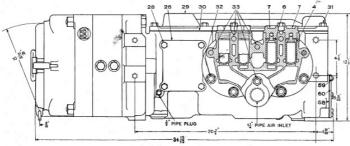
Supplement No. 8

June, 1931

(Superseding Issue of October, 1925)

(Compressor Portion only)





Net Weight, Complete with Motor (Standard) 640 lbs. Net Weight, Complete with Motor (Aluminum) 464 lbs.

Each of these Compressors has a displacement of 16 cubic feet when operating at the normal crankshaft speed of 217 revolutions per minute against 100 lbs. pressure, and each Compressor is equipped with Motor designed for Direct Current at 600 Volts. The DH-16-A Compressor differs from the DH-16 Compressor only in that certain of the parts are made of Aluminum.

Piece No. 73391. DH-16 Motor Driven Air Compressor with 600 Volt Motor and 8" Suction Strainer, complete (Compressor Portion only)

8et. No.

Cylinder and Crank Case, complete
(includes 16, 17, 18, 19, 21, 22, 24,
26, 27, 38, 39, 55, 86, 60, 61; wo
of 42, 54; three of Pe. 33711; four
of 28, 40, 41 and six of 59)
Cylinder Cover, complete (includes
two of 4, 6 and four of 7)
Cylinder Cover, Finished Ca.ting
only 73390 67647 56761 67607 6823 44682 *66923 \$66925 55105 55142 9 10 11 12 13 14 15 16 17 18 19 21 22 24 26 27 28 55089 73407 55178 67878 55090 55091 67134 68381 557048 66890 55197 67877 5328 2958 **56197 66891 72685 26375 72686 74985 79086 †81737 33711 67881 29 67868 30

DH-16-A MOTOR DRIVEN AIR COMPRESSOR (ALUMINUM)

Piece No. 86391. DH-16-A Motor Driven Air Compressor with 600 Volt Motor and 8" Suction Strainer, complete (Compressor Portion only)

The DH-16-A (Aluminum) Compressor Portion is the same as the DH-16 Compressor Portion except the following parts should be substituted for corresponding reference numbers.

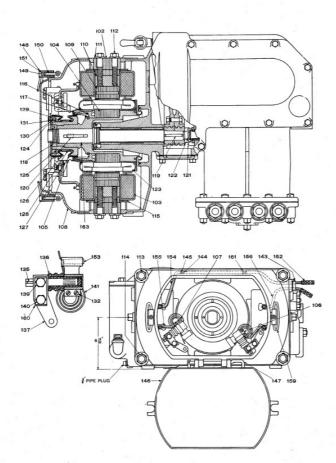
Pc. No.	Ref. No.		Pc. No.	Ref. No.	
84701	2	Cylinder and Crank Case, complete (includes 16, 17, 18, 19, 21, 22, 24,	*84708	8	Piston, complete (includes 51, 52, 62, and two of 9) (2 Req'd)
		26, 27, 38, 39, 55, 58, 60, 61; two of 42, 54; three of Pc. 33711; four	84706	- 11	Connecting Rod, complete (includes 43, 44, 45, 46 and 47) (2 Req'd)
		of 28, 40, 41 and six of 59)	85716	26	Hand Hole Cover
86386	3	Cylinder Cover, complete (includes	84703	29	Crank Case Top Cover .
00000		two of 4, 6 and four of 7)	84700	38	Bearing Cap (Rear End)
86380	3	Cylinder Cover, Finished Casting	84699	39	Bearing Cap (Front End)
		Only	84705	44	Connecting Rod Cap (2 Req'd)
86385	7	Valve Chamber Cap (4 Req'd)			

*NOTE A—For different sizes of Pistons and Rings, see page 7.
**NOTE B—See Repair Cylinder Bush on page 6.
*NOTE C—For details of 8" Suction Strainer, see page 6.
*NOTE D—If three segment type of Piston Ring is desired, see page 7.

Prices will be quoted upon application

Orders should give SERIAL NUMBER of Compressor as well as PIECE NUMBER and NAME of part wanted

DH-16 AND DH-16-A MOTOR DRIVEN AIR COMPRESSOR (Motor Portion only)



(Motor Portion only)

	Pc. No.	Ref. No.		Pc. N	o. R	tef. No.	
	55226	102	Field Yoke, complete (includes two	5519	4	126	Front V Ring
			of 109, 110; four of 111 and 112)	5519	5	127	Rear V Ring
	55181	103	Field Coil (2 Req'd)	5519	6	128	Insulating Sleeve
	55230	104	Armature, complete (includes 105,	5519	2	129	Taper Ring
			116, 117, 118, 119, 120, 121, 122, 163 and forty-five of 123)	5519	3	130	Commutator Nut
	55241	105	Commutator, complete (includes 124,	920	4	131	Commutator Nut Set Screw
	55241	105	125, 126, 127, 128, 129, 130, 131 and Pc, 55228)	5522			Commutator Segments and Strips (Set)
	68672	106	Right Carbon Holder, complete (in-	1437		132	Lead Screw (4 Req'd)
			cludes 135, 136, 137, 139, 140, 141,	4575	9.	135	Carbon Holder Stud Key (2 Req'd)
			160 and two of 132)	6831		136	Carbon Holder Stud Sleeve (2 Req'd)
	68673	107	Left Carbon Holder, complete (in-	6693		137	Carbon Holder Clamp (2 Req'd)
	72492		cludes 135, 136, 137, 139, 140, 141, 160 and two of 132)	6693	6	139	Set Screw for securing Stud to Car- bon Holder Clamp (2 Req'd)
			Right Carbon Holder with Stud and Insulation	1623	9	140	Cap Screw for securing Carbon Holder Clamp (2 Req'd)
	72493		Left Carbon Holder with Stud and Insulation	7273	0 :	141	Carbon Holder Spring
	55224	108	Front End Bell, complete (includes	7083	6	143	Insulating Plug
		200	143, 146, 147 and two of 144, 145,	586	9 :	144	Cleat for Lead (2 Req'd)
			148 and 161)	1264	8 :	145	Cleat Screw (2 Req'd)
	55112	109	Salient Pole (2 Req'd)	5508	5	146	Commutator Door
	55111	110	Salient Pole Nut (2 Req'd)	5565		147	Hinge Pin
	15986 10608	111	Lock Washer (4 Req'd) Salient Pole Cap Screw (4 Req'd)	8471	3	148	Latch, complete (includes 149, 150, 151 and 159) (2 Req'd)
	56019	113	Hexagon Head Bolt and Nut	6620	8 1	149	Latch Eye Bolt (2 Req'd)
			(2 Req'd)	8466		150	Latch Spring (2 Req'd)
	56021	114	Stud and Nut (2 Req'd)	5511		151	Latch Nut (2 Req'd)
	55113	115	Field Coil Spring (2 Req'd)	802	6]	152	Connector for Lead (2 Req'd)
	55097	116	Front Coil Support	5516		153	Carbon (2 Req'd)
,	56031	117	Ring for Front Coil Support	5626		154	Field Coil Lead, 29" long
	55190	118	Armature Shaft Nut	6690	5]	155	Lead from Coil to Carbon Holder
	55152	119	Key for Pinion				(2 Req'd)
	55098	120	Key for Commutator	5626			Field Coil Lead, 13" long
	55163	121	Castle Nut	6660		159	Latch Handle (2 Req'd)
	17963	122	Cotter	6688			Double Lock Washer (2 Req'd)
	55156	123	Armature Coil (45 Req'd)	798	2 1	161	Lock Washer for Cleat Screw (2
	55191	124	Commutator Bushing	5515		163	Req'd)
	55975	125	Commutator Washer				Armature Shaft

DH-16-A MOTOR DRIVEN AIR COMPRESSOR (ALUMINUM)

(Motor Portion only)

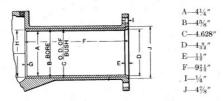
The DH-16-A (Aluminum) Motor Portion is the same as the DH-16 Motor Portion except the following parts should be substituted for corresponding reference numbers.

Pc. No. Ret. No.
84710 108 Front End Bell, complete (includes
143, 146, 147 and two of 144, 145,
148 and 161)
84712 146 Commutator Door

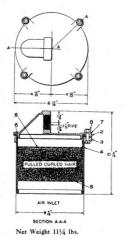
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REPAIR CYLINDER BUSHES



Cylinder Bush (Ref. No. 54) as included in piece list on page 3 can also be used with the old type DH-16 Compressor which did not have the cylinders bushed. The above cut will serve as a guide in boring cylinders to receive these bushes.



8-INCH SUCTION STRAINER

Regularly supplied as standard with DH-16 Compressors.

Piece No. 81737. 8" Suction Strainer, complete

Po. No. Ref. No. 67901 2 Cap 67902 3 Ring

67904 4 Shell

67905 5 Strainer Plate (2 Req'd)

67906 6 Gasket

17173 7 Lock Washer (4 Req'd)

24009 8 $\frac{3}{8}$ "x $\frac{3}{8}$ " Sq. Hd. Bolt with Hex. Nut (4 Req'd)

Nut (4 Req'd) 88790 Carton Pulled Curled Hair

3315 1½"x1¼" Reducing Bush

Prices will be quoted upon application
Orders should give PIECE NUMBER and NAME of part wanted

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AIR PISTONS AND RINGS FOR DH-16 COMPRESSOR

Ref.	DESCRIPTION	PISTON DIAMETERS AND Pc. Nos.						
No.		41/4"	$4\frac{5}{16}''$	43/8"	47 "			
8	Piston (includes 51, 52, 62 and two of 9) (2 Req'd)	66923	68921	68895	68922			
9	Piston Pressure Ring (5" thick) (4 Req'd)	66925	68911	68900	68912			
62	Piston Oil Ring (2 Req'd)	79086	79087	79088	79089			

AIR PISTONS AND RINGS FOR DH-16-A (ALUMINUM) COMPRESSOR

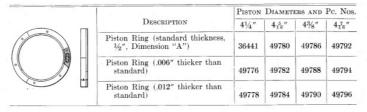
Description	PISTON DIAMETERS AND Pc. Nos.						
	41/4"	45"	43%"	476"			
Piston (includes 51, 52, 62 and two of 9) (2 Req'd)	84708		10.7				
Piston Pressure Ring (5" thick) (4 Req'd)	66925	68911	68900	68912			
Piston Oil Ring (2 Req'd)	79086	79087	79088	79089			
	Piston (includes 51, 52, 62 and two of 9) (2 Req'd) Piston Pressure Ring ($\hat{\gamma}_{\theta}''$ thick) (4 Req'd)	Description		Description 4½" 4½" 4½" 4¾"			

Cylinder Bushings should not be re-bored larger than $4\frac{7}{16}$ ".

Pistons and Rings are designated by the diameter of the cylinder for which they are suitable, proper allowance for clearance and fitting being provided.

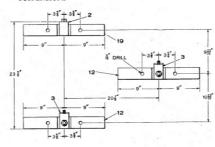
Above sizes of Pistons and Rings, and no other sizes, are made and carried in stock. Should orders be received for other sizes, we will substitute nearest standard size unless specific instructions are received to the contrary.

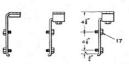
FORMER STANDARD THREE SEGMENT TYPE PISTON RINGS FOR DH-16 COMPRESSOR

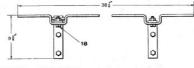


Prices will be quoted upon application
Orders should give PIECE NUMBER and NAME of part wanted

SUSPENSIONS







(Standard) Net Weight 233/4 lbs. (Aluminum) Net Weight 12 lbs.

The Three Point Suspension (standard) is regularly supplied at the additional price involved unless otherwise specified. The Three Point Suspension (Aluminum) is furnished at the additional price involved only when specified.

Piece No. 55231. Three Point Suspension, complete (Standard)

Piece No. 56194. Three Point Suspension, complete, less Brackets (Standard)

Pc. No. B	ef. No.		Po. No.	Ref. No.	
$55242 \\ 55243$	$\frac{2}{3}$	Hanger (Left Front) Hanger (Rear and Right Front) (2 Reo'd)	29154 28978	17 18	%"x1\%" Cap Screw (6 Req'd) Hexagon Bolt with Nut and Cotter (2 Req'd)
55245	12	Bracket (Rear and Right Front) (2 Req'd)	55244	19	Bracket (Left Front)

Piece No. 85378. Three Point Suspension, complete (Aluminum)

Pc. No. Ref. No.			Pc. No. Ref. No.				
85379 85380	2 3	Hanger (Left Front) Hanger (Rear and Right Front)	29154 28978	17 18	%"x1'%" Cap Screw (6 Req'd) Hexagon Bolt with Nut and Cotter		
85382	12	(2 Req'd) Bracket (Rear and Right Front) (2 Req'd)	85381	19	(2 Req'd) Bracket (Left Front)		

WRENCH

A double end wrench, one end suitable for the crank shaft castle nut and the other end suitable for the valve chamber caps, will be supplied when ordered at the additional price involved. Specify—Double End Wrench, Piece No. 67305.

Prices will be quoted upon application
Orders should give PIECE NUMBER and NAME of part wanted

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