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HORNET & R-1690
DESIGNATED ENGINES

HORNET (R-1690)

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R-1690 (HORNET)

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*Similar to Military counterpart in certain respects.

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HORNET & R-1860
DESIGNATED ENGINES

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*Similar to Military counterpart in certain respects.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) *A	Hornet (R-1690) *A-G	Hornet (R-1690) *A1	Hornet (R-1690) A1-G	Hornet (R-1690) *A2	Hornet (R-1690) A3	Hornet (R-1690) A2-G
SPECIFICATION	Number	none	none	PW-3	none	PW-360	none	PW-355
RATINGS	Take Off			525/1900		525/1900		500/1900
	Military							
	Normal	525/1900/S.L.	500/1900/S.L.	525/1900/S.L.	500/1900/S.L.	525/1900/S.L.	525/1900/S.L.	500/1900/S.L.
FUEL	Grade Octane	72	73	72	73	73	72	73
CURVES	Spec. Oper.							
WEIGHT, DRY	Pounds	795	860	780	860	795	795	875
PROP. SHAFT	Ratio	D.D.	2:1	D.D.	2:1	D.D.	D.D.	2:1
	Spline	30					30	
	Rotation, viewed CC from antiprop. end		CC	C	CC	C	CC	C
CYLINDERS	Comp. Ratio	5:1	5:1	5:1	5:1	5:1	5:1	5:1
IMPELLER	Ratio	7:1	7:1	7:1	7:1	7:1	7:1	7:1
CARBURETOR	Model	NA-Y7B	NA-Y7B	NA-Y7B	NA-Y7B	Optional	NA-Y7B	Optional
MAGNETOS	Model	VAG-9D	VAG-9D	VAG-9D	VAG-9D	Optional	VAG-9D	Optional
INST. DWG.	Number							
DIMENSIONS	Diameter		55.44	55.44	55.44	55.44	55.44	55.44
	Length		51.00	44.88	51.00	44.75	44.75	51.03
A.T.C.	Number	15	29	15	29	15	15	29
AIRPLANE	Installations	Boeing 95 Keystone CZH Keystone B-3A Martin T-4-W Martin 74				Boeing 40B Boeing 40B-4 Boeing 80-A1		
NOTES		*Also sold to Army and Navy.	*Also sold to Army and Navy.	*Also sold to Army and Navy.	None manufactured.	*Also sold to Navy.	Fuel Injection. None manufactured.	None manufactured.

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) *C	Hornet (R-1690) TC1	Hornet (R-1690) SC1	Hornet (R-1690) TIC	Hornet (R-1690) SIC	Hornet (R-1690) S2C	Hornet (R-1690) TIC1
SPECIFICATION	Number	PW-365	PW-365	PW-376	PW-370	PW-367	PW-366	PW-370
RATINGS	Take Off	600/2000	600/2000	575/2050	650/2000	575/2000	575/2000	675/2000
	Military							
	Normal	600/2000/S.L.	600/2000/S.L.	575/2050/2000	650/2000/S.L.	575/2000/5000	575/2000/7500	675/2000/S.L.
FUEL	Grade Octane	80	80	73	87	87	87	87
CURVES	Spec. Oper.	1250	2016	2084	1737	1253	1500	2045
WEIGHT, DRY	Pounds	840	861	891	870	840	840	871
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.
	Spline	40	40	40	40	40	40	40
	Rotation, viewed C from antiprop. end		C	C	C	C	C	C
CYLINDERS	Comp. Ratio	6:1	6:1	5:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	8:1	8:1	8:1	10:1	10:1	12:1	10:1
CARBURETOR	Model	Stromberg	NA-Y9A	NA-Y9A	Stromberg	Stromberg	Stromberg	NA-Y9A
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla
INST. DWG.	Number		R-9645	R-9645				
DIMENSIONS	Diameter	55.44	55.44	55.44	55.44	55.44	55.44	55.44
	Length	45.66	45.66	45.66	45.66	45.66	45.66	45.66
A.T.C.	Number	83	83	114	92			
AIRPLANE	Installations	Convair 17 Douglas O-38C Douglas 20-38B Vought O3U-2						Vought V-80P
NOTES		*Also sold to Army and Navy			None manufactured.	None manufactured.	None manufactured.	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) TXC1	Hornet (R-1690) S3C1	Hornet (R-1690) SD	Hornet (R-1690) T1D1	Hornet (R-1690) T2D1	Hornet (R-1690) T2D1-A	Hornet (R-1690) SD1
SPECIFICATION	Number	PW-382	PW-377	PW-372	PW-381	PW-382	none	PW-376
RATINGS	Take Off	660/2000	610/2000	675/2050	700/2000	660/2000		575/2050
	Military							
	Normal	600/2000/S.L.	610/2000/5000	675/2050/6000	700/2000/S.L.	660/2000/S.L.	600/2000/S.L.	575/2050/2000
FUEL	Grade Octane	80	80	87	87	80	80	73
CURVES	Spec.	2458	1886		2457	2458		2084
	Oper.			2460				2452
WEIGHT, DRY	Pounds	880	871	880	880	880	968	891
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.
	Spline Rotation, viewed from antiprop. end	40 C	40 C	40 C	40 C	40 C	40 CC	40 C
CYLINDERS	Comp. Ratio	6:1	6:1	6.5:1	6:1	6:1	6:1	5:1
IMPELLER	Ratio	10:1	10:1	12:1	10:1	10:1	10:1	8:1
CARBURETOR	Model	Stromberg	NA-Y9A	Stromberg	Stromberg	Stromberg	NA-Y9A, B, H	NA-Y9A
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	VAG-9D SB9R	Scintilla
INST. DWG.	Number	R-9645	R-9645	R-9420	R-9645	R-9645		R-9645
DIMENSIONS	Diameter	55.44	55.44	54.44	55.44	55.44		55.44
	Length	45.75	45.66	45.75	45.75	45.75		45.66
A.T.C.	Number	99	100	106	92	99	99	114
AIRPLANE	Installations					Convair 16 General GA-43 Sikorsky S-40A		
NOTES			None manufactured.				None manufactured.	

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) S1D1	Hornet (R-1690) S3D1	Hornet (R-1690) S4D1	Hornet (R-1690) S4D2	Hornet (R-1690) SD-G	Hornet (R-1690) T1D1-G	Hornet (R-1690) SD1-G
SPECIFICATION	Number	PW-387	PW-385	PW-377	PW-377	PW-371	PW-378	PW-374
RATINGS	Take Off	525/2000	645/2000	650/2050	650/2050	700/2150	700/2150	575/2150
	Military							
	Normal	525/2000/4000	645/2000/3000	650/2050/3000	650/2050/3000	700/2150/6500	*700/2150/S.L.	575/2150/3000
FUEL	Grade Octane	73	80	80	80	87	87	73
CURVES	Spec.	2094	1886		H-6	2459	2461	2046
	Oper.	2454		2455				2453
WEIGHT, DRY	Pounds	891	891	880	916	980	980	986
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	D.D.	3:2	3:2	3:2
	Spline Rotation, viewed from antiprop. end	40 C	40 C	40 C	40 C	40 C	50 C	40 C
CYLINDERS	Comp. Ratio	5:1	6:1	6:1	6:1	6.5:1	6:1	5:1
IMPELLER	Ratio	8:1	10:1	10:1	10:1	12:1	10:1	8:1
CARBURETOR	Model	NA-Y9A	NA-Y9A	Stromberg	NA-Y9A	Stromberg	Stromberg	NA-Y9A
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla
INST. DWG.	Number	R-9645	R-9645	R-9645	R-9645	R-9420	R-9645	R-9645
DIMENSIONS	Diameter	55.44	55.44	55.44	55.44	55.44	55.44	55.44
	Length	45.66	45.66	45.75	45.66	50.75	50.75	50.75
A.T.C.	Number	116	100	100	100	105	109	115
AIRPLANE	Installations							
NOTES			None manufactured.				*Serial 1828 also available at 725/2150/S.L. 2-1/4" choke 700 rating has 2-3/16" choke. One test engine sold to B.M.W. and shipped 5-16-33 to Munich against U.A.E. S.O. 17215	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) S3D1-G	Hornet (R-1690) S5D1-G	Hornet (R-1690) T1E	Hornet (R-1690) T2E	Hornet (R-1690) S1E	Hornet (R-1690) S3E	Hornet (R-1690) S5E
SPECIFICATION	Number	PW-373	PW-3004	PW-3009	PW-3026	PW-3002	PW-3013	PW-3017
RATINGS	Take Off	670/2150	700/2150	725/2050	650/2000	875/2300	650/2050	700/2050
	Military					875/2300/2300		
	Normal	670/2150/5000	700/2150/3500	725/2050/S.L.	650/2000/S.L.	750/2250/7000	650/2050/5500	700/2050/6000
	Max. Cont.							
	Cruise							
FUEL	Grade	*87	87	87	80	87	80	87
CURVES	Spec.				T-317-C	T-4C4		T-316
	Oper.	2456	2750	2890		2882	2884	3074
WEIGHT, DRY	Pounds	980	980	920	975	975	920	975
PROP. SHAFT	Ratio	3:2	3:2	D.D.	D.D.	D.D.	D.D.	D.D.
	Spline	50	50	40	40	40	40	40
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6.5:1	6:1	6.5:1
IMPELLER	Ratio	10:1	10:1	11:1	10:1	12:1	10:1	12:1
CARBURETOR	Model	Stromberg	Stromberg	Stromberg	NA-Y9H	NA-Y9H	Stromberg	NA-Y9H
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	SB9R	SB9R	Scintilla	SB9R
INST. DWG.	Number	R-9645	R-9645	R-13901	R-23650	R-23650	R-13901	R-23650
DIMENSIONS	Diameter	55.44	55.44	54.44	54.69	54.69	54.44	54.69
	Length	50.75	50.75	45.36	44.23	44.23	45.38	44.23
A.T.C.	Number	117	127		99			164
AIRPLANE	Installations				Junkers (New Guinea) 52			Vought (Siem) V925
NOTES		*Certificated for 80 fuel.	None manufactured.	None manufactured.		None manufactured.	None manufactured.	

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) S5E	Hornet (R-1690) S10E	Hornet (R-1690) S11E	Hornet (R-1690) T2E-G	Hornet (R-1690) T6E-G	Hornet (R-1690) S1E-G	Hornet (R-1690) S2E-G
SPECIFICATION	Number	PW-3021	PW-3022	PW-3023	PW-3016	PW-3018	PW-3003C	PW-3011A
RATINGS	Take Off	650/2050	575/2000	525/2000	750/2250	650/2250	*875/2300	800/2300
	Military							
	Normal	650/2050/3000	575/2000/2000	575/2000/4000	750/2250/S.L.	650/2250/S.L.	750/2250/7000	750/2250/2500
	Max. Cont.							
	Cruise							
FUEL	Grade	80	80	73	87	87	87	87
CURVES	Spec.		T-63		3101		T-217	T-315
	Oper.	2874		2876			2882	2881
WEIGHT, DRY	Pounds	920	920	920	1015	1015	1064	1064
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	3:2	3:2	3:2	3:2
	Spline	40	40	40	50	50	50	50
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6.5:1	6.5:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	10:1	8:1	12:1	10:1
CARBURETOR	Model	Stromberg	Stromberg	Stromberg	Stromberg	Stromberg	NA-Y9C	NA-Y9C
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	SB9R	SB9R
INST. DWG.	Number	R-13901	R-13901	R-13901	R-13901	R-13901	R-23650	R-23650
DIMENSIONS	Diameter	54.44	54.44	54.44	54.44	54.44	54.44	54.44
	Length	45.38	45.36	45.36	51.00	51.00	49.38	49.36
A.T.C.	Number	152					136	144
AIRPLANE	Installations						Junkers JU-86 (South Africa) Sikorsky S-42, A Sikorsky S-43, B	
NOTES			None manufactured.	None manufactured.	None manufactured.	None manufactured.	*850/2400/S.L. with early type props.	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1690) S3E-G	Hornet (R-1690) S7E-G	Hornet (R-1690) S8E-G	Hornet (R-1690) S13E-G	Hornet (R-1690) S12E-G	Hornet (R-1690) S1E3-G
SPECIFICATION	Number	PW-3012	PW-3019	PW-3020	PW-3027	PW-3033	PW-3035
RATINGS	Take Off	675/2250	750/2250/S.L.	720/2250	800/2300	875/2300	875/2300
	Military						875/2300/2300 850/2500/5000
	Normal	675/2250/6000	690/2250/9200	720/2250/4000	750/2250/4000	750/2250/7000	750/2250/7000
	Max. Cont.						
	Cruise						
FUEL	Grade	80	87	87	87	87	*90
CURVES	Spec. Oper.	2963	3108	2871	T-218	T-361 T-425, T-426	T-495 T-425, T-426
WEIGHT, DRY	Pounds	1015	1015	1015	1064	1070	1087
PROP. SHAFT	Ratio Spline	3:2 50	3:2 50	3:2 50	3:2 50	3:2 50	3:2 50
CYLINDERS	Comp. Ratio	6:1	6.5:1	6:1	6.5:1	6.5:1	6.5:1
IMPELLER	Ratio	11:1	12:1	10:1	10:1	10:1	10:1
CARBURETOR	Model	Stromberg	Stromberg	Stromberg	Stromberg	Stromberg	NA-Y9H
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	S89R
INST. DWG.	Number	R-13901	R-13901	R-13901	R-23650	R-27660	R-35872
DIMENSIONS	Diameter	54.44	54.44	54.44	54.44	54.44	54.69
	Length	51.00	51.00	51.00	49.38	49.67	50.52
A.T.C.	Number		140	147	166	193	193
AIRPLANE	Installations					Focke Wulf Condor PW-200 Lockheed Electra 14-H2 Lockheed 18-H Lockheed C-56A (18H) Lockheed C-56C (18.07)	Faucett F-19
NOTES		None manufactured.	None manufactured.	None manufactured			*Certified for 87 fuel.

ENGINE MODEL	Type P & W A Air Force Navy	R-1690 -1	R-1690 -3	R-1690 -5	R-1690 -7	R-1690 -9	R-1690 -11	R-1690 -13
SPECIFICATION	Number							
RATINGS	Take Off	525/1900	525/1900	525/1900	525/1900	625/2000	775/2200	625/2000
	Military							
	Normal	525/1900/S.L.	525/1900/S.L.	525/1900/S.L.	525/1900/S.L.	625/2000/S.L.	700/2150/6500	625/2000/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	87	87	73	87	80	87	80
CURVES	Spec. Oper.							
WEIGHT, DRY	Pounds	600	600	841	850	850		650
PROP. SHAFT	Ratio Spline	D.D. 40	D.D. 40	D.D. 40	D.D. 40	D.D. 40	3:2 50	D.D. 40
CYLINDERS	Comp. Ratio	5:1	5:1	5:1	5:1	6:1	6.5:1	6:1
IMPELLER	Ratio	7:1	7:1	7:1	7:1	8:1	12:1	8:1
CARBURETOR	Model			NA-Y7B		NA-Y8E		NA-Y8E
MAGNETOS	Model							
INST. DWG.	Number			R-3253	R-7482	R-7482		R-10760
DIMENSIONS	Diameter	55.44	55.44	54.43	54.43	54.43	50.14	55.20
	Length			44.78	45.65	45.75	48.50	46.25
A.T.C.	Number							
AIRPLANE	Installations	Keystone XLB3A Thomas Morse YO-20	Keystone LB7 Douglas O-38, A	Curtiss YA-10 Douglas O-38B Gen. Aviation C148 Hamilton UC-89	Douglas O-38C	Curtiss YA-10 Douglas O-38E	Martin RB-12A Martin YB-12	Douglas O-38F Douglas O-38F
NOTES		*Sold as A.	*Sold as A1. Similar -1 except has 4 surface clutch & vaneless diffuser.	*Sold as A2. Similar -3 except vaneless diffuser.	*Sold as C. Similar -5 except heavy conn.rods, steel push rods, 3 brg. impeller, 7 vane diffuser & 1 piece M.R. brg.	Similar -5 except stronger c'case; heads & blower, forged ribbed pistons & 1860 H & L rods and c'shaft.	Similar -9 except 3:2, new heads smaller O.D. & provision for vac. pump drive.	Similar -9 except rear case oil tank vent, extended prop shaft & vacuum pump drive.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1690	R-1690	R-1690	R-1690	R-1690	R-1690	R-1690
		-15	-17	-19	-21	-23	-25	*-28
SPECIFICATION	Number		3003-B					
RATINGS	Take Off	700/2150	850/2500	725/2250	760/2200	800/2300	875/2300 850/2500 (Lockheed)	525/1900
	Military							
	Normal	700/2150/6500	750/2250/7000	750/2250/8500	675/2150/4500	750/2250/7000	750/2250/7000	525/1900/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	80	87	87	67	92	90	
CURVES	Spec. Oper.		3057	2673		T-231	T-495	
WEIGHT, DRY	Pounds		1049		850	1066	1086	
PROP. SHAFT	Ratio Spline	3:2 50	3:2 50	3:2 50	3:2 40	3:2 50	3:2 50	
CYLINDERS	Comp. Ratio	6.5:1	6.5:1	6.5:1	6.5:1	6.66:1	6.5:1	
IMPELLER	Ratio	12:1	12:1	9.75:1	9.68:1	12:1	10:1	
CARBURETOR	Model		NA-Y9A		NA-Y9A	NA-Y9G1	NA-Y9G1	
MAGNETOS	Model					SB9R	SB9R	
INST. DWG.	Number		R-14870	R-14905		R-25226	R-35872	
DIMENSIONS	Diameter Length		54.44 59.25	53.87	54.56 50.75	54.56 50.00	54.75 50.52	
A.T.C.	Number							
AIRPLANE	Installations				Martin B-12 Martin RB-12A	Sikorsky OA-6 Sikorsky Y10A-3	Lockheed C-59	Great Lakes TG-1 Martin T4M-1
NOTES		Similar -11 except reverse rotation.	Similar -11 except pedestal mounted cam.	Similar -11 except fuel injector, pedestal mounted cam & improved heads.		Similar -17 except comp. ratio & ratings.	Similar -23 except ratings, ratios & dimensions.	*Sold as Hornet A1.

ENGINE MODEL	Type P & W A Air Force Navy	R-1690	R-1690	R-1690	R-1690	R-1690	R-1690	R-1690
		*-32	*-38	*-40	-42	-44	-52	-54
SPECIFICATION	Number						N-3039	PW-3035
RATINGS	Take Off	525/1900	600/2000	600/2000	600/2000	600/2000	850/2500	875/2300 875/2300/2300
	Military							850/2500/2300
	Normal	525/1900/S.L.	600/2000/S.L.	600/2000/S.L.	600/2000/S.L.	600/2000/6000	750/2250/6600	750/2250/7000
	Max. Cont.							
	Cruise							
FUEL	Grade	73	80	80	80		92	90
CURVES	Spec. Oper.					3054	T-533	T-495
WEIGHT, DRY	Pounds	795	840	840	861		1064	1067
PROP. SHAFT	Ratio Spline	D.D. 40	D.D. 40	D.D. 40	D.D. 40	D.D. 40	3:2 50	3:2 50
CYLINDERS	Comp. Ratio	5:1	6:1	6:1	6:1	6:1	6.5:1	6.5:1
IMPELLER	Ratio	7:1	8:1	8:1	8:1	12:1	12:1	10:1
CARBURETOR	Model	NA-Y7E	NA-Y8C	NA-Y8E	NA-Y8E NA-Y8C		NA-Y9E1	NA-Y9G1
MAGNETOS	Model						SB9R	SB9R-4
INST. DWG.	Number	R-3253	R-9645	R-9645	R-9645		R-13901	R-35872
DIMENSIONS	Diameter Length						54.44 49.38	54.69 50.52
A.T.C.	Number							193
AIRPLANE	Installations	Martin P3M-2 Martin T4M-1	NAF-T4N-1 Vought SU-2 Vought SU-3	Vought SU-1 Vought SU-2 Vought SU-3	Vought SU-4 Vought SU-1 Vought SU-2 Vought SU-3		Lockheed XR40-1 Sikorsky JRS-1 Sikorsky -43	Lockheed XR40-1 Lockheed RS0-2 Sikorsky JRS-1 Sikorsky S-43
NOTES		*Sold as Hornet A2.	*Sold as Hornet C.	*Sold as Hornet C.		None manufactured.		(See SLES0, -54 engines sold under both series).

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1860) *B	Hornet (R-1860) B1	Hornet (R-1860) SB1	Hornet (R-1860) TSB1	Hornet (R-1860) S1B1	Hornet (R-1860) S2B1	Hornet (R-1860) S3B1
SPECIFICATION	Number	None	PW-361	None	PW-369	PW-362	PW-363	None
RATINGS	Take Off		575/1950		625/1950	575/1950	575/1950	
	Military							
	Normal	575/1900/S.L.	575/1950/S.L.	*575/1950/5000	625/1950/S.L.	575/1950/6000	575/1950/8000	*575/1950/5000
	Max. Cont.							
FUEL	Grade	73	73	83	80	87	87	80
	CURVES	Spec. Oper.	300	787		1426	1255	1249
WEIGHT, DRY	Pounds	830	860	840	845	862	860	840
PROP. SHAFT	Ratio Spline	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.
CYLINDERS	Comp. Ratio	5:1	5:1	5:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	8:1	8:1	10:1	8:1	10:1	12:1	8:1
CARBURETOR	Model	NA-Y8A	NA-Y8E	NA-Y8C	Optional	Stromberg	NA-Y8E	NA-Y8C
MAGNETOS	Model	VAG-9D	Scintilla	VAG-9D	Optional	Scintilla	Scintilla	VAG-9D
INST. DWG.	Number		R-9642				R-9642	
DIMENSIONS	Diameter		56.94	57.00	56.94	56.94	46.94	57.00
	Length		44.78	45.00	44.78	44.78	44.78	45.00
A.T.C.	Number	28	28	28		28	28	28
AIRPLANE	Installations	Bellanca C-27 Boeing Y1C-18 Boeing 221 Convair 16 Convair Commodore Convair Fleetster 20A Junkers JU-52 Keystone B-4A	Amer. Airplane & Engine Pilgrim 100A Convair Fleetster Sikorsky S-41B					
NOTES		*Also sold to Army and Navy.		*With 2 throttle stops. 1st - 575/1850/S.L. to 2500 2nd - 575/1900/2500 to 5000. None manufactured.	None manufactured.	None manufactured.	None manufactured.	None manufactured. *With 2 throttle stops. 1st - 575/1850/S.L. to 2500. 2nd - 575/1900/2500 to 5000.

ENGINE MODEL	Type P & W A Air Force Navy	Hornet (R-1860) B1-G	Hornet (R-1860) S1B1-G	Hornet (R-1860) S2B1-G
SPECIFICATION	Number	PW-359	PW-364	PW-368
RATINGS	Take Off	575/1950	575/2000	575/2000
	Military			
	Normal	575/1950/S.L.	575/2000/6000	575/2000/8000
	Max. Cont.			
FUEL	Grade	73	87	87
	CURVES	Spec. Oper.	1251	969
WEIGHT, DRY	Pounds	952	960	960
PROP. SHAFT	Ratio Spline	3:2 50	3:2 50	3:2 50
CYLINDERS	Comp. Ratio	5:1	6:1	6:1
IMPELLER	Ratio	8:1	10:1	12:1
CARBURETOR	Model	NA-Y8E	Stromberg	NA-Y8E
MAGNETOS	Model	Scintilla	Scintilla	Scintilla
INST. DWG.	Number	R-9642		R-9642
DIMENSIONS	Diameter	56.94	56.94	56.94
	Length	50.17	50.42	50.42
A.T.C.	Number	28	28	28
AIRPLANE	Installations	Boeing YB-9	Martin YB-15	Boeing Y1B-9A
NOTES				

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1860 -1	R-1860 -3	R-1860 -5	R-1860 -7	R-1860 -9	R-1860 -11	R-1860 -13
SPECIFICATION	Number							
RATINGS	Take Off	575/1950	550/1950	550/1950	575/1950	575/1950	630/1900	575/1950
	Military							
	Normal	575/1950/S.L.	550/1950/S.L.	550/1950/S.L.	575/1950/S.L.	575/1950/S.L.	600/2000/6000	575/1950/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	87	87	87	87	87	87	87
CURVES	Spec. Oper.							
WEIGHT, DRY	Pounds	985	965			860		
PROP. SHAFT	Ratio	D.D.	2:1	3:2	D.D.	D.D.	3:2	3:2
	Spline	40	50	50	40	40	50	50
CYLINDERS	Comp. Ratio	5:1	5:1	5:1	5:1	5:1	6:1	5:1
IMPELLER	Ratio	7:1	7:1	7:1	7:1	8:1	12:1	8:1
CARBURETOR	Model							
MAGNETOS	Model							
INST. DWG.	Number							
DIMENSIONS	Diameter	56.93			56.93	56.93		
	Length	44.78			44.78	44.78		
A.T.C.	Number							
AIRPLANE	Installations	Convair C-11 Gen. Aviation C-16 Gen. Aviation YC-20 **Keystone LB-12	Keystone LB-8	Bellanca C-27	Boeing Y1C-18 Keystone B-4A Keystone Y1B-4A		Boeing Y1B-9A	Boeing YB-9
NOTES		*Sold as B. **Crashed 8-31-29.	*Sold as B-G. Similar -1 except ratings & gearing.	*Sold as B-G. Similar -3 except gearing.	*Sold as B. Similar -1 except has vaneless diffuser, 3 brg. imp. shaft, cast nose & 2 pc. M.R. 1 piece M.R. brg. bearing.	None manufactured. Similar -7 except ratings, forged pistons, inter-cyl. baffles & spur type red. gear.	*Sold as S2B1-G. Similar -3 except ratings, forged pistons, inter-cyl. baffles & spur type red. gear.	*Sold as B1-G. Similar -9 except inter cyl. baffles, spur type red. gear, new carb. setting.

ENGINE MODEL	Type P & W A Air Force Navy	R-1860 -15	R-1860 -17	R-1860 -18	R-1860 -19	R-1860 -42	R-1860 -48	R-1860 -52	R-1860 -56
SPECIFICATION	Number								
RATINGS	Take Off	650/2000	630/1950		650/2000				
	Military								
	Normal	650/2000/S.L.	600/2000/6000		600/2000/S.L.				
	Max. Cont.								
	Cruise								
FUEL	Grade	87	87	93	87				
CURVES	Spec. Oper.								
WEIGHT, DRY	Pounds								
PROP. SHAFT	Ratio	3:2	3:2		3:2	3:2	D.D.	D.D.	D.D.
	Spline	50	50		50	50	40	40	40
CYLINDERS	Comp. Ratio	5:1	6:1		5:1	6:1	5:1	5:1	5:1
IMPELLER	Ratio	6:1	12:1		6:1	12:1	7:1	8:1	8:1
CARBURETOR	Model								
MAGNETOS	Model								
INST. DWG.	Number								
DIMENSIONS	Diameter								
	Length								
A.T.C.	Number								
AIRPLANE	Installations		Martin YB-13		Bellanca C-27A				
NOTES		None manufactured. Similar -11 except rating, ratios and carb. setting.	*Sold as S1B1-G. Similar -11 except vac. pump dr. cyl. design & spring coupling super dr.		Similar -11 except super ratio & vac. pump dr.	None manufactured.	None manufactured.	None manufactured.	None manufactured. No Mfg.