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WASP & R-1340
DESIGNATED ENGINES

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*Similar to Military counterpart in certain respects.

WASP (CONTINUED)

R-1340 (CONTINUED)

WASP (CONTINUED)		R-1340 (CONTINUED)			*WASP	
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PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Wasp *A	Wasp *B	Wasp *C	Wasp CB	Wasp CD	Wasp SC	Wasp -C-G
SPECIFICATION	Number	None	PW-1	None	None	None	None	None
RATINGS	Take Off	410/1900/S.L.						
	Military		450/2100					
	Normal	410/1900/S.L.	420/2000/S.L.	420/2000/S.L.		*420/2000/S.L.	450/2100/6000	425/2050/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	58	58	58		73	*60	73
CURVES	Spec. Oper.							
WEIGHT, DRY	Pounds	745	670	745		729	745	795
PROP. SHAFT	Ratio Spine	D.D. 30	D.D. 30	D.D. 30		D.D. 30	D.D. 30	5:4 40
CYLINDERS	Comp. Ratio	5.25:1	5.25:1	5.25:1		5.25:1	5.25:1	5.25:1
IMPELLER	Ratio	5:1	7:1	7:1		7:1	10:1	7:1
CARBURETOR	Model	NA-Y7B	NA-Y7A	NA-Y7B		NA-Y6C1	NA-Y7B	NA-Y7B
MAGNETOS	Model	VAG-9D	VAG-9D	VAG-9D		VAG-9D	VAG-9D	VAG-9D
INST. DWG.	Number	1170						
DIMENSIONS	Diameter Length	51.44 42.63	50.63 43.38	51.44 42.63			51.44 42.62	51.44 47.00
A.T.C.	Number	14	14	14		14	58	55
AIRPLANE	Installations	Boeing F2B Boeing F3E Boeing 40A	Atlantic C-5 Boeing F4B1 Boeing F4B4 Curtiss XO-12 Douglas C-52, A Douglas BT-2 Fokker F-10A Ford C-4 Thomas Morse XO-19 Vought XF2J-1	Boeing P-12 Boeing XP-12A Boeing P-12B Boeing P-12C Fairchild YF-1 Fairchild Y-1A Fairchild C-8A Fokker F-10A Ford C-4B Northrop XC-19 Northrop Y1C-19 Sikorsky C-6 (Model B-38A) Sikorsky C-6A Thomas Morse XP-13A				
NOTES		*Also sold to Air Force and Navy.	*Also sold to Air Force and Navy.	*Also sold to Air Force and Navy.	B engine with C rear, heads, pistons, sump, and few with crankshaft. Modified by Navy in field.	*Alternate 450/2100/S.L. None manufactured.	*Certificated for 73 fuel with 2 throttle stops.	*Also sold to Navy.

ENGINE MODEL	Type P & W A Air Force Navy	Wasp *C1	Wasp C1-G	Wasp SC1	Wasp *D	Wasp SD	Wasp T2D1	
SPECIFICATION	Number	PW-309		PW-310	PW-311	PW-314	None	
RATINGS	Take Off	420/2000		420/2050	450/2100	450/2100	None	
	Military							
	Normal	420/2000/S.L.		425/2050/S.L.	450/2100/6000	450/2100/S.L.	*500/2200/7500	420/2000/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	*73		73	*60	73	60	
CURVES	Spec. Oper.	786		938	2035	2449	2973	
WEIGHT, DRY	Pounds	750		600	745	705	730	
PROP. SHAFT	Ratio Spine	D.D. 30		5:4 40	D.D. 30	D.D. 30	D.D. 30	
CYLINDERS	Comp. Ratio	5.25:1		5.25:1	5.25:1	5.25:1	6:1	
IMPELLER	Ratio	7:1		7:1	10:1	7:1	10:1	
CARBURETOR	Model	NA-Y7B		NA-Y7B	NA-Y7B	Optional	NA-Y6A	
MAGNETOS	Model	VAG-9D		VAG-9D	VAG-9D	Optional	VAG-9D	
INST. DWG.	Number	R-2742			R-2742			
DIMENSIONS	Diameter Length	51.44 42.60		51.44 48.07		51.44 42.57	51.50 43.00	
A.T.C.	Number	14		55	58	76	145	
AIRPLANE	Installations	Amphibians R-2-C Bellanca Model CH-400 Bellanca Model D Boeing 100 Boeing 204 Buhl CA-6W Curtiss 6000A Curtiss A6A Fairchild 71,71-A Fairchild FC-2W Ford 5AT-B,C,CS Fairchild PB-3	Hamilton H-45 Lockheed Air Express 3 Lockheed Altair (Model 8D & 8G) Lockheed Executive (Vega 3 & 5A) Metal 92W No. American Super-Universal (Fokker A52) Ryan-B-7 Stinson SM-6B Zenith Z-G-A	Bellanca Model F-2 Bellanca Model CH-400 Boeing Alpha 4-A Boeing 4E Curtiss 6000A Detroit DL1 Douglas Dolphin B-114 Fairchild FC-2-W2 Fairchild C-96 Laird CL-RW-450 Lockheed Model 5C Lockheed Model 10C Lockheed C-101 Sikorsky S-36BS Sikorsky S-38B Sikorsky S-39C		Boeing P-12C Boeing XP-12G Ford C-4A Northrop ZC-19 Thomas Morse ZD-22		
NOTES		*Also sold to Navy.		None manufactured.	*73 fuel with two throttle stops.	*Also sold to Air Force and Navy.	*With throttle stops: 1st - 500/145/S.L. to 3000 2nd - 500/2050/3000 to 7500	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S6D1	Wasp *D1	Wasp TD1	Wasp T1D1	Wasp SD-G	Wasp SD1	Wasp S01
SPECIFICATION	Number	None	PW-315	PW-332	PW-318	PW-312	PW-315	PW-313
RATINGS	Take Off		550/2100	420/2000	525/2100	500/2200	500/2200	500/2200
	Military							
	Normal	450/2100/4500	550/2100/S.L.	420/2000/S.L.	525/2100/S.L.	500/2200/7500	500/2200/7500	500/2200/7500
	Max. Cont.							
	Cruise							
FUEL	Grade	73	83	73	80	83	83	83
CURVES	Spec. Oper.	2752	2468	3203	2449		1185	1165
WEIGHT, DRY	Pounds	730	750		763	765	705	745
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30	D.D. 30	D.D. 30	5:4 40	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	6:1	10:1	10:1	8:1	10:1	10:1	10:1
CARBURETOR	Model	NA-Y8E	Optional		NA-Y8E	Stromberg	Optional	Stromberg
MAGNETOS	Model	VA0-9D	Optional		Scintilla	Scintilla	Optional	Scintilla
INST. DWG.	Number				R-8666			
DIMENSIONS	Diameter Length	51.44 42.63	51.44 42.56	51.44 42.63	51.44 42.63	51.44	51.44 42.56	
A.T.C.	Number	130		90	91		76	76
AIRPLANE	Installations				Fokker F-22			

NOTES

*Also sold to Navy. None manufactured.

None manufactured

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S6D1-G	Wasp S1D1	Wasp S1D1-G	Wasp S2D1	Wasp S2D1-G	Wasp S3D1	Wasp S4D1
SPECIFICATION	Number	PW-312	PW-317	PW-331	PW-325	PW-320	PW-329	PW-334
RATINGS	Take Off	500/2200	550/2200	525/2200	460/2200	460/2200	450/2100	525/2200
	Military							
	Normal	500/2200/7500	550/2200/5000	525/2200/5000	460/2200/5000	460/2200/5000	450/2100/6000	525/2200/6000
	Max. Cont.							
	Cruise							
FUEL	Grade	83	80	60	73	73	73	80
CURVES	Spec. Oper.	1254	2447	2000 2446	2019	2063	2760	
WEIGHT, DRY	Pounds	625	763	660	750	645	736	735
PROP. SHAFT	Ratio Spline	5:4 40	D.D. 30	3:2 40	D.D. 30	D.D. 40	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	5.25:1	5.25:1	6:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	8:1	6:1	10:1	12:1
CARBURETOR	Model		NA-Y8E	NA-Y8E	NA-Y8E	NA-Y8E	Stromberg	NA-Y8E
MAGNETOS	Model		Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla
INST. DWG.	Number		R-8666	R-8686	R-8686	R-8686	R-8686	R-8686
DIMENSIONS	Diameter Length	51.44 46.06	51.438 42.625	51.438 47.781	51.438 42.594	51.438 47.781	51.438 42.625	51.438 42.594
A.T.C.	Number		90	90			128	
AIRPLANE	Installations		Bellanca F Boeing F4B4 Lockheed UC-85 Lockheed Orion 9D Lockheed Model 902				Douglas Dolphin 5	

NOTES

None manufactured. None manufactured. None manufactured.

None manufactured.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S4D1-G	Wasp S5D1	Wasp S6	Wasp S1E	Wasp T1H1	Wasp T3H1	Wasp S1H1
SPECIFICATION	Number	PW-335	PW-336	PW-316	PW-319	PW-1007A	PW-1017	PW-1022-A
RATINGS	Take Off	525/2200	450/2200	500/2200	500/2200	550/2100	420/2000	600/2250
	Military							600/2250/6200
	Normal	525/2200/6000	450/2200/10500	500/2200/11000	500/2200/9000	550/2100/S.L.	420/2000/S.L.	550/2200/8000
	Max. Cont.							
	Cruise							
FUEL	Grade	80	*80	87	87	80	73	*91
CURVES	Spec.		2445	2450	2118	T-314		T-422
	Oper.				2451	2669	2590	Inet. 7335
WEIGHT, DRY	Pounds	825	765	750	750	664	605	664
PROP. SHAFT	Ratio	3:2	D.D.	D.D.	D.D.	D.D.	D.D.	D.D.
	Spline	40	30	30	30	40	40	40
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	12:1	10:1	14:1	12:1	10:1	6:1	12:1
CARBURETOR	Model	NAY-8F	NAY-8E	NAY-8E	NAY-8E	NAY-9H	Stromberg	NA-Y9H
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	SB9R	Scintilla	SB9R
INST. DWG.	Number	R-6686	R-6666	R-6666	R-6666	R-29041	R-11961	R-29041
DIMENSIONS	Diameter	51.438	51.44	51.44	51.44	51.44	51.44	51.75
	Length	47.781	42.59	42.59	42.59	44.08	44.06	42.94
A.T.C.	Number	Special	124	Special	Special		170	129
AIRPLANE	Installations			Boeing P-12D Boeing P-12K Boeing XP-12L Boeing XP-12H Detroit C-23 Detroit C-25 Lockheed Vega Y1C-17				
NOTES			*Certificated for 73 fuel		1 engine built for Roscoe Turner S.O. 17507 engine #4836			*Certificated for 87 fuel

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S1H1	Wasp S1H1-G	Wasp S1H1-G	Wasp S1H5-G	Wasp S1H6	Wasp S1H6-G
SPECIFICATION	Number	**1056	PW-1000C	**1056	1059	1065	1057
RATINGS	Take Off	600/2250/6200	600/2250	600/2250/6200	650/2250/4600	550/2250/4800	650/2250/4600
	Military		600/2250/6200				
	Normal	550/2200/8000	550/2200/6000	550/2200/8000	600/2200/6200	550/2200/9300	550/2200/9300
	Max. Cont.						
	Cruise						
FUEL	Grade	*60/87	*91	91/98	91/96	*1756	91/95
CURVES	Spec.	T-1035	T-216	T-1061	T-1062	T-1067	T-1060
	Oper.	Inet. 7335	Inet. 7335	Inet. 7335	T-645		
WEIGHT, DRY	Pounds	965	930	953	968	910	990
PROP. SHAFT	Ratio	D.D.	3:2	.667	.667	D.D.	.667
	Spline	40	40	40	40	40	40
CYLINDERS	Comp. Ratio	6:1	6:1	6.03:1	6:1	6:1	6:1
IMPELLER	Ratio	12:1	12:1	12:1	10:1	10:1	10:1
CARBURETOR	Model	NA-Y9Z1	NA-Y9B, NA-Y9H, NA-Y9C	NA-Y9E1	NA-Y9E1	Pressure	Pressure
MAGNETOS	Model	SB9RN-4	SB9R	SB9R	SB9RN-3	Scintilla	Scintilla
INST. DWG.	Number	R-29041			126701	126901	126901
DIMENSIONS	Diameter	51.60	51.61	51.60	51.60	51.60	51.60
	Length	43.01	47.60	47.61	49.50	46.70	51.50
A.T.C.	Number	129	129	129	129		
AIRPLANE	Installations	Grumman Hellard G-73	Boeing 247D, C-73 Comm. Australia "Whirraway" **DeHavilland-Otter Porker S-13	FRYE F-1			
NOTES		*If unavailable must use 91/96. **Also built by CPWA. Spec. 1363.	*Certificated for 83 fuel. **Engines obtained from Comm. Australia CPWA. Spec. 1304.	None manufactured by PWA. *Will be built by	G* Impeller, None manufactured.	New blower and rear. None manufactured.	New blower and rear. None manufactured.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S2H1	Wasp S2H1-G	Wasp S3H1	Wasp S3H1-G	Wasp S4E1	Wasp S6H1	Wasp S1R2-G
SPECIFICATION	Number	PW-1032-A	PW-1005-A	**1052	**1053	PW-1016	PW-1021-A	1058 applies
RATINGS	Take Off	600/2250	600/2250	600/2250/3000	600/2250/3000	450/2100	600/2250	600/2250/6200
	Military							
	Normal	500/2200/10500	500/2200/10500	550/2200/5000	550/2200/5000	450/2100/6000	500/2200/11000	550/2200/8000
	Max. Cont.							
	Cruise							
FUEL	Grade	87 (600 T.O. hp); 80 (500 T.O. hp)	87 (600 T.O. hp); 80 (500 T.O. hp)	*60/87	*91/98	80	87	83
CURVES	Spec.	T-312C	T-319C	T-562	T-863	T-71	T-60	T-216
	Oper.	T-168	2666	Inst. 7333	T-291			Inst. 7335
WEIGHT, DRY	Pounds	664	930	665	953	605	664	930
PROP. SHAFT	Ratio	D.D.	3:2	D.D.	3:2	D.D.	D.D.	3:2
	Spline	40	40	40	40	40	40	40
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	12:1	12:1	10:1	10:1	10:1	12:1	12:1
CARBURETOR	Model	NA-Y9H	NA-Y9H	NA-Y9B, NA-Y9C, NA-Y9E1, NA-Y9H	NA-Y9E1	Stronberg	NA-Y9H	NA-Y9B, NA-Y9C, NA-Y9H
MAGNETOS	Model	SB9R	SB9R	SB9RH-4	SB9R	Scintilla	SB9R	SB9R
INST. DWG.	Number	R-29041		R-29041		R-11961	R-11661	
DIMENSIONS	Diameter	51.75	51.75	51.60	51.60	51.44	51.44	51.81
	Length	42.94	47.73	43.01	47.61	44.06	44.06	47.60
A.T.C.	Number	165	141	143	142			129
AIRPLANE	Installations			Bellanca Model 31-50 Grumman G-73 Mallard Lockheed 10E North American NA-16-1 North American NA-15-3 Can. Car & Foundry Norseman Fiat G49-A Machhi MB325 Piaaggio P-150	Douglas EF-2 Douglas 25-2 Junkers JU-52		North American NA-16-2	
NOTES				*Certificated for 87 fuel for T.O. and 80 fuel for normal. If 60/87 unavailable must use 91/96. **Also built by CPWA, Spec. 1301.	*Certificated for 87 fuel for T.O. and 80 fuel for Normal. **Also built by CPWA, Spec. 1302. PWA 1063 was 1006B.	None manufactured.		None manufactured

ENGINE MODEL	Type P & W A Air Force Navy	Wasp S3H2	Wasp **S1R2	Wasp S1H3	Wasp TSH1-G
SPECIFICATION	Number	**1055	**1066	1067	none
RATINGS	Take Off	600/2250/3000	600/2250/6200	600/2300/9500	550/2200
	Military		600/2250/6200		
	Normal	550/2200/5000	550/2200/6000	550/2200/11000	550/2200/S.L.
	Max. Cont.				
	Cruise				
FUEL	Grade	*60/67	61/98	100/130	91
CURVES	Spec.	T-994	T-1116	T-1119	
	Oper.	Inst. 7333			Inst. 16272
WEIGHT, DRY	Pounds	665	668	650	
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	3:2
	Spline	40	40	40	40
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1
IMPELLER	Ratio	10:1	12:1	12:1	10:1
CARBURETOR	Model	NA-Y9E1-511	NA-Y9E1-511	NA-Y9E1	NA-Y9E1-510
MAGNETOS	Model	SB9RH-4	SB9RH-4	SB9R	SB9R
INST. DWG.	Number	R-98301 (R-985 Rear); 155001 (R-1340 Rear)	155001		
DIMENSIONS	Diameter	51.80	51.80	51.60	51.61
	Length	47.70	45.90	46.30	47.60
A.T.C.	Number		129		
AIRPLANE	Installations		*Sikorsky S-85 Westland-Sikorsky S-55		
NOTES		None manufactured. *If unavailable must use 91/96 with R-985 AN-1 rear. Engines after 1953 with Wasp rear. **Will be built by CPWA, Spec. 1305 for 39° or 67° inst. Designation originally taken out for vertical installation.	*1st flight 11-21-49. **Assigned -57 designation. Similar S1H1 except for lubrication system and carb. elbow for 39°-57° helicopter installation. ***Will also be built by CPWA, Spec. 1306.	6" Impeller intended for S1H2 prod. None manufactured	Similar R-1340 AN-1 except geared. None manufactured.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 -1	R-1340 -2	R-1340 -3	R-1340 -4	R-1340 -5	R-1340 -6	R-1340 -7
SPECIFICATION	Number							
RATINGS	Take Off	410/1900/S.L.		450/2100	450/2100	450/2200	500/2200	450/2100
	Military	410/1900/S.L.						
Normal			375/1650/S.L.	450/2100/S.L.	450/2100/S.L.	450/2000/5000	500/2200/6500	450/2100/S.L.
	Max. Cont.							
FUEL	Grade	73		73		80		73
	CURVES	Spec. Oper.						
WEIGHT, DRY	Pounds	670		670		672		700
PROP. SHAFT	Ratio	D.D. 30	3:2 40	D.D. 30	D.D. 40	D.D. Taper	D.D. 40	D.D. 30
	Spline							
CYLINDERS	Comp. Ratio		5.25:1		5.24:1	5.30:1	6:1	5.25:1
IMPELLER	Ratio	5:1	7:1	7:1	10:1	10:1	10:1	7:1
CARBURETOR	Model				NA-Y6C		NA-Y6C	NA-Y7B
MAGNETOS	Model							
INST. DWG.	Number						R-4451	
DIMENSIONS	Diameter	50.67		50.67				51.43
	Length	43.37		43.37				42.79
A.T.C.	Number							
AIRPLANE	Installations	Curtiss XA-4 Douglas RD-1 Fairchild C-6 Fairchild XF-1 Ford C-4A,B		Curtiss P-3A Douglas O-32, A Thomas Morse XC-19	Boeing F4B-4A Douglas Dolphin RD-3 Vought OSU-1 Vought OSU-1	Thomas Morse XO-19 Douglas O-32	North American NJ-1 North American SNJ-1 Vought OSU-6	Boeing P-12 Douglas BT-2 Douglas BT-2A Douglas BT-2B Douglas BT-2B1 Douglas BT-2B6 Douglas BT-2BR Douglas BT-2C1 Douglas BT-2C, G Douglas O-32A Lockheed C-12 Thomas Morse G-19, A, B, C
NOTES		*Sold as Wasp A. Incorporates 24" C'pin.	None manufactured.	*Sold as Wasp B. Similar -1 ex- cept larger C'pin.	*Sold as Wasp D.	*Sold as Wasp D. Similar -3 ex- cept 10:1.	*Sold as Wasp D.	*Sold as Wasp C.

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 -8	R-1340 -9	R-1340 -10	R-1340 -11	R-1340 -12	R-1340 -13	R-1340 -14
SPECIFICATION	Number							
RATINGS	Take Off	500/2200	450/2000	500/2200	450/2100	550/2100	375/1650	550/2100
	Military							
Normal		500/2200/6000	450/2000/5000	500/2200/6000	450/2100/S.L.	550/2100/S.L.	375/1650/S.L.	550/2100/S.L.
	Max. Cont.							
FUEL	Grade		73		67	63	73	63
	CURVES	Spec. Oper.	2921		2921			
WEIGHT, DRY	Pounds		700		743			
PROP. SHAFT	Ratio	D.D. 40	D.D. 30	D.D. 40	D.D. 30	D.D. 40	D.D. 40	D.D. 40
	Spline							
CYLINDERS	Comp. Ratio	6:1	5.25:1	6:1	5.25:1	6:1	5.25:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	7:1	10:1	7:1	10:1
CARBURETOR	Model	NA-Y6C		NA-Y6C	NA-Y6C	NA-Y6E		NA-Y6F
MAGNETOS	Model							
INST. DWG.	Number			R-4451			R-4451	R-4451
DIMENSIONS	Diameter		51.43		51.50		51.41	
	Length		42.59		48.52			
A.T.C.	Number							
AIRPLANE	Installations	Boeing F4B-3 Boeing F4E-4 Boeing F4B-4A	Boeing XP12A, B Douglas YO-22 Fairchild F-1A Thomas Morse G-19	Boeing F4B-4 Douglas RD-2	Boeing P-12C, G Ford C4A, B Thomas Morse G-19D, E	Boeing F4E-4 Curtiss X50C-1 Vought OSU-C Vought OSU-3	Thomas Morse G-19C, D Boeing P-12C, G	North American NJ-1 Vought OSU-6
NOTES		*Sold as Wasp SD.	*Sold as Wasp SC. Similar -8 except 6 surface clutch.	*Sold as Wasp SD.	*Sold as Wasp D. Similar -7 except more cooling fins; & surface clutch.	Single manifold breeze shielding reverted type gear coup. mag. drive.	*Sold as Wasp TDG. Similar -11 except geared & retards.	*Sold as Wasp DL.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1340	R-1340	R-1340	R-1340	R-1340	R-1340
		*-15	*-16 *-16M	*-17	-16	*-19	*-21
SPECIFICATION	Number						
RATINGS	Take Off	575/2200	550/2200	500/2200	550/2100	500/2000	500/2000
	Military						
	Normal	450/2200/5000	550/2200/5000	500/2200/7000	550/2100/S.L.	500/2200/11000 600/2200/6000	600/2200/6000 500/2200/11000
	Max. Cont.						
	Cruise						
FUEL	Grade	80	80	87	87	87	87
CURVES	Spec. Oper.		2920				
WEIGHT, DRY	Pounds	743		715		715	715
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30	D.D. 30	D.D. 40	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	5.25:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	10:1	14:1	14:1
CARBURETOR	Model		NA-Y8E	NA-Y8C	NA-Y8J	NA-Y8E	
MAGNETOS	Model					Scintille	
INST. DWG.	Number		R-8656		R-8686		
DIMENSIONS	Diameter Length	51.50 47.62		51.50 43.25		51.50 43.25	51.44
A.T.C.	Number						
AIRPLANE	Installations	Boeing P-12C,G Thomas Morse O19D,E	**North American SNJ-1 **Boeing F4E-4	Boeing P-12D,E,K Boeing XP-12L	Curtiss SOC-1 Seagull Curtiss SOC-2 Seagull Curtiss ECC-3 Seagull North American NJ-1 North American SNJ-1 R.A.F. SOH-1	Boeing P-12F	Boeing Y1P-2E
NOTES		*Sold as Wasp SC. Similar -11 except 10:1.	**Sold as Wasp SD1. The "M" is Bureau desig. not CAA. *Sold as Wasp SD1. Refer to SD1 Spec. for ratings, etc.	*Sold as Wasp SD. Heavy M.R. & 7 vane rear.	Dual manifold radio shielding rubber coupling magneto drive.	*Sold as Wasp SE. Oil temp. reg. in engine & forged pistons.	*Sold as Wasp S2E. Incorporates vane rear elbow, stronger cyl. head, C'case & blower.

ENGINE MODEL	Type P & W A Air Force Navy	R-1340	R-1340	R-1340	R-1340	R-1340	R-1340
		-22	*-23	-24	*-25	-26	-27
SPECIFICATION	Number	SD-118-6 App.16 EP-3 Add No. 1 (6-22-37)		1049		1003	
RATINGS	Take Off	550/2100	540/2100	550/2200	600/2200	600/2250	500/2000/S.L.
	Military					600/2250/6000	
	Normal	550/2100/S.L.	575/2200/2500	550/2200/5000	600/2200/3000	550/2200/6000	570/2200/7500
	Max. Cont.						
	Cruise						
FUEL	Grade	87	87		87	73	92
CURVES	Spec. Oper.						
WEIGHT, DRY	Pounds	796	715		715		715
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30		D.D. 30	3:2 40	D.D. 30
CYLINDERS	Comp. Ratio	6:1 10:1	6:1		6:1	6:1	6:1
IMPELLER	Ratio		10:1		10:1	12:1	14:1
CARBURETOR	Model	NA-Y8J1-19 ^A , -510 ^B					NA-Y8C
MAGNETOS	Model	SD9R				SD6R	
INST. DWG.	Number	R-24090					R-6539
DIMENSIONS	Diameter Length	51.50 42.63	51.44		51.44	51.61 47.60	51.50 43.25
A.T.C.	Number						
AIRPLANE	Installations	Curtiss SOC-1 ^{A,B} Curtiss SOC-2 ^{A,B} Curtiss SOC-3 ^{A,B} R.A.F. SOH-1 ^A	Boeing P-12J				Boeing P-26 Boeing P-26C Boeing P-29A
NOTES		Provision for 2-speed but not constant speed prop. Gun syn. on R.H. gun syn. drive. Rocker valve lubricator on L.H. gun syn. drive.	*Sold as Wasp SD. Similar -21 except 10:1.	None manufactured.	*Sold as Wasp C2. Fuel injection integral with engine.	None manufactured.	Similar -21 except provision for vacuum pump & spring coupling in supercharger drive.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1340	R-1340	R-1340	R-1340	R-1340	R-1340
		-29	-30	-31	-32	-33	-35
SPECIFICATION	Number				1016		1016
RATINGS	Take Off	550/2100		550/2200/S.L.	575/2200	600/2120	575/2200
	Military						
	Normal	450/2200/5000		500/1920/S.L. 550/2200/10000	575/2200/9000	550/2200/10000	575/2200/9000
	Max. Cont.						
	Cruise						
FUEL	Grade	87	87	87	87	87	87
CURVES	Spec. Oper.	3055	3056	3058		3061	
WEIGHT, DRY	Pounds	715		742	862	792	862
PROP. SHAFT	Ratio Spline	D.D. 30		D.D. 30		D.D. 30	
CYLINDERS	Comp. Ratio	5.25:1		6.42:1	6.42:1	6:1	6.42:1
IMPELLER	Ratio	10:1		12.92:1	11.25:1	11.25:1	11.25:1
CARBURETOR	Model						
MAGNETOS	Model						
INST. DWG.	Number	R-8539				R-10777	
DIMENSIONS	Diameter Length	51.50 43.25				51.50 46.75	
A.T.C.	Number						
AIRPLANE	Installations	Douglas C-29		Boeing XP-29	Boeing YP-29 Boeing YP-29A Boeing YP-29B	Boeing P-26B	
NOTES		Similar -27 except comp. ratio, h/o ratio & setting with hot spot.	None manufactured.	Fine fin, latest Cumo oil filter & ramming air intake.	Marvel fuel injector.	Similar -27 except redesigned for Marvel fuel injector.	Exp. Marvel fuel injector. None manufactured.

ENGINE MODEL	Type P & W A Air Force Navy	R-1340	R-1340	R-1340	R-1340	R-1340	R-1340
		-36	-37	-38	-39	-40	-41
SPECIFICATION	Number	X-1048-B			1001		1034
RATINGS	Take Off	600/2250		500/2000/S.L.			600/2250
	Military						
	Normal	550/2200/5000	600/2200/11000	570/2200/7500	550/2200/9000		550/2200/5000 550/2200/S.L.
	Max. Cont.						
	Cruise						
FUEL	Grade	92	100	92	87	91	92
CURVES	Spec. Oper.	T-511			3206		
WEIGHT, DRY	Pounds	877					842
PROP. SHAFT	Ratio Spline	D.D. 40	4:3 40	D.D. 40			D.D. 40
CYLINDERS	Comp. Ratio	6:1	6.3:1	6:1	6.3:1		6:1
IMPELLER	Ratio	10:1	11.25:1	14:1	13:1	10:1	10:1
CARBURETOR	Model	NA-Y9J-3		NA-Y9C	NA-Y9A	NA-Y9E1-511	
MAGNETOS	Model	S89K-4				S89K-4	
INST. DWG.	Number	R-37842	R-14904	R-8686			R-37842
DIMENSIONS	Diameter Length	51.50 44.20					51.50 44.78
A.T.C.	Number						
AIRPLANE	Installations	Boeing YO6S-1 Curtiss XSO2C-1 Curtiss SOC-4 N.A.F. XOSN-1 North American BNJ-2,-3		Bellanca J6-1	Boeing P-29	Sikorsky HO4S1(6-55) ¹	Bellanca L-11 Detroit ZC-23 North American Y1BT-10 Northrop A-17AS
NOTES			Exp. Marvel fuel injector. Similar -33 except improved cam cyl. head lub. valve gears & red. gear.	*Sold as Waap SE.	Improved imp. drive reinforced MERLR ⁶ .	Converted from AN-1 at Airport, 39 ⁰ installation from horizontal	*Engine sold as S8H1. Similar -39 except imp. ratio & incorporate dynamic damper.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 -42	R-1340 -43	R-1340 -45	R-1340 *-46	R-1340 -47	R-1340 *-48
SPECIFICATION	Number		1031	1038		1026	
RATINGS	Take Off		550/2200	600/2250		600/2250	
	Military					600/2250/3000	
	Normal		550/2200/5000 501/2200/S.L.	550/2200/5000		550/2200/5000 501/2200/S.L.	
	Max. Cont.						
	Cruise						
FUEL	Grade		92	92		92	
CURVES	Spec. Oper.		T-141			T-430 T-514	
	Weight, Dry	Pounds	864	930		864	
PROP. SHAFT	Ratio Spline		D.D. 40	3:2 40		D.D. 40	
CYLINDERS	Comp. Ratio		6:1	6:1		6:1	
IMPELLER	Ratio		8:1	10:1		10:1	
CARBURETOR	Model		NA-Y9E2-504	NA-Y9H-507		NA-Y9E1-511	
MAGNETOS	Model		SB9R	SB9R(N) 4		SB9R	
INST. DWG.	Number		R-28400	R-29041		R-26812 R-261E3	
DIMENSIONS	Diameter		51.50	51.44		51.44	
	Length		42.25	47.94		42.94	
A.T.C.	Number						
AIRPLANE	Installations	North American T-60	Lockheed XC-35	Convair YBC-3 North American BC-2	Goodyear ZPMK	North American AT-6 North American BC-1, -1A North American BC-11	Kaman H OK-1
NOTES		Converted R-1340 AN-1 by Navy at Pensacola. Incorporates Hydro-matic Prop, 2:1 gen. drive.	Similar -39 except imp. ratio & carb.	Similar -41 except gearing & ratings.	*Converted AN-2 with modified starter drive for Goodyear Gear Box, per Navy Bulletin #233 Actual designation is AN-46.	Similar -41 except S.L. ratings.	*Converted AN-1. Similar -57 except with different carburetor elbow for helicopter installation.

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 -49	R-1340 -51	R-1340 *-53	R-1340 *-55	R-1340 *-57	R-1340 *-59
SPECIFICATION	Number	1037	A-1043	1038		A-1068-A	**1307
RATINGS	Take Off	600/2250	600/2250	600/2250	600/2250	600/2250/6200	600/2250/3000
	Military	600/2250/3000	600/2250/2000				
	Normal	550/2200/5000 501/2200/S.L.	550/2200/4000 501/2200/S.L.	550/2200/6000	550/2200/5000	550/2200/8000	550/2200/5000
	Max. Cont.						
	Cruise						
FUEL	Grade	92	92	92	92	91/92	80/87
CURVES	Spec. Oper.	T-430 T-514	T-500 T-514		T-671	T-1153 Inst. 16500	C-1307
	Weight, Dry	Pounds	864	863	930	865	950 mag. 967 alum.
PROP. SHAFT	Ratio Spline	D.D. 40	D.D. 40	3:2 40	D.D. 40	D.D. 40	3:2 40
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6.03:1	6.03:1	6.03:1
IMPELLER	Ratio	10:1	10:1	12:1	10:1	12:1	10:1
CARBURETOR	Model	NA-Y9E1-511	NA-Y9E1-511 NA-Y9E1-49 SB9R4	NA-Y9H-507 SB9R(N) 4	SB9R-4	NA-Y9E1-511 SB9R-4	NA-Y9E1 SB9R-4
MAGNETOS	Model	SB9R					
INST. DWG.	Number	R-35740 R-40259	R-4042E	R-29041	114801	175001	231701
DIMENSIONS	Diameter	51.44	51.44	51.70		52.00	52.0
	Length	42.94	42.94	47.70		45.50	47.2
A.T.C.	Number						
AIRPLANE	Installations	Com. Australia Wirraway Lockheed UC-36B North American BC-1A, -1B North American AT-6A	Curtiss O-52	Boeing C-75	Bell YH-12B Bell XH-12 Bell Model 4E	**Sikorsky H-19A, B, C Sikorsky HO4S-2 Sikorsky HRS-1, -2 Sikorsky YH-19	
NOTES		Same -47 except splined vacuum and fuel pump drives.	Same as -49 except for ratings.	*Sold as Whop SH1-0. Similar -45 except 12:1. Auto. Carb. and no gun ayn.	*Army to convert R-1340 AN-1 with R-965 AN-1 rear. Vertical installation.	*Delivered as SH2. **1st flight 11-21-49. Modified SH1 for 310° 47° helicopter inst. Nominal 39° from horizontal.	*Converted AN-1 with 3:2 gearing. **CPWA Spec.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 -86	R-1340	R-1340	R-1340
SPECIFICATION	Number				
RATINGS	Take Off				
	Military				
	Normal	450/2100/S.L.		450/2100/S.L.	
	Max. Cont.				
	Cruise				
FUEL	Grade	73			
CURVES	Spec. Oper.				
WEIGHT, DRY	Pounds				
PROP. SHAFT	Ratio Splines	D.D. 40		D.D. 40	
CYLINDERS	Comp. Ratio	5.25:1		5.25:1	
IMPELLER	Ratio	7:1		7:1	
CARBURETOR	Model				
MAGNETOS	Model				
INST. DWG.	Number				
DIMENSIONS	Diameter Length				
A.T.C.	Number				
AIRPLANE	Installations			Douglas RD-3 Douglas RD-4	
NOTES		None manufactured.		*Sold as Weep D.	

ENGINE MODEL	Type P & W A Air Force Navy	R-1340 *AN-1 *AN-1	R-1340 AN-2	R-1340 AN-3	R-1340 AN-5	R-1340 AN-7
SPECIFICATION	Number	AN-1051 (Rev.1)	*AN-1051 (Rev.1) App.6			
RATINGS	Take Off	600/2250	550/2200	600/2250	600/2250	600/2250
	Military					
	Normal	550/2200/5000	550/2200/S.L.	550/2200/5000	550/2200/5000	550/2200/5000
	Max. Cont.					
	Cruise					
FUEL	Grade	91	91	91	91	91
CURVES	Spec. Oper.	T-670 T-671	T-670 Inst. 16072			
WEIGHT, DRY	Pounds	865 mag. 878 alum.	938	950	955	965
PROP. SHAFT	Ratio Splines	D.D. 40	3:2 40	3:2 40	3:2 40	3:2 40
CYLINDERS	Comp. Ratio	6.03:1	6.03:1	6:1	6:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	10:1	10:1
CARBURETOR	Model	NA-Y9E1-511	NA-Y9E1-510	NA-Y9E1	NA-Y9E1	NA-Y9J
MAGNETOS	Model	SB9R, SB9RN, SB9RU-2	SB9R SB9RN			
INST. DWG.	Number	R-47419	R-56116			
DIMENSIONS	Diameter Length	51.61 43.00	51.61 47.60	52.00 48.00	52.00 46.00	52.00 46.00
A.T.C.	Number					
AIRPLANE	Installations	Boeing AT-18SD Boeing AT-18 Bellanca AT-15RL Cessna C-106A Chase JPC-4 Fairchild AT-13, AT-13 McDonnell AT-19AC Northrop YC-64, C-64A, C-64, UC-64B, AS Northrop AT-16 Northrop Harvard II North American SNJ-2, -3, -4, -5, -6 North American AT-6B, C-1F Pittcocki Rescuer BW-1, -2 NAA Columbus T-6G	Goodyear Navy ZNPK Goodyear ZNPM Goodyear ZP2K-1 Goodyear ZP2K-1 Goodyear ZP2K-1			
NOTES		*Also sold commercially. Also built by Jacobs, Continental and CPWA.	*Rating in spec. incorrect since bill of material calls for -510 carb. setting instead of -511 for AN-1. This change not shown in Appendix B. Was adapted for airship requirements. Special 211 generator drive. **Modified ZPK's	None manufactured. Similar AN-1 except hydro prop shaft & gov. pad on rear case.	None manufactured. Similar AN-3 except front mounted governor.	None manufactured. Similar AN-5 except carb.