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TWIN WASP JR. & R-1535  
DESIGNATED ENGINES

TWIN WASP JR.				R-1535		
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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	Twin Weasp Jr. TA-G	Twin Weasp Jr. SA-G	Twin Weasp Jr. SA1-G	Twin Weasp Jr. SA4-G	Twin Weasp Jr. SA1-G	Twin Weasp Jr. SA1-G	Twin Weasp Jr. SA7-G
SPECIFICATION	Number	PW-616	none	PW-611	PW-617	PW-613	PW-606	
RATINGS	Take Off	750/2500	700/2500/S.L.	700/2500	700/2500	650/2400	660/2400	700/2500
	Military							
	Normal	750/2500/S.L.	700/2500/8500	700/2500/6500	700/2500/8500	650/2400/7000	660/2400/7000	650/2500/7000
	Max. Cont.							
	Cruise							
FUEL	Grade	87	66	87	87	60	80	91
CURVES	Spec. Oper.		1661	2467	2467	2018	2462	T-132
WEIGHT, DRY	Pounds		976	990-1009	1020	1053	999	
PROP. SHAFT	Ratio	4:3	3:2, 4:3	3:2 or 4:3	4:3	4:3	3:2	4:3
	Spline	50	40	40	40	40	40	40
CYLINDERS	Comp. Ratio	6.5:1	6.75:1	6.7:1	6.7:1	6:1	6:1	6.7:1
IMPELLER	Ratio	6:1	10:1	10:1	10:1	10:1	10:1	8.7:1
CARBURETOR	Model	NA-Y9A	NA-Y9A	NA-Y9A	Stromberg	NA-Y9A	Stromberg	NA-Y9G-18
MAGNETOS	Model	Scintilla	GN14-D-8	Scintilla	Scintilla	Scintilla	Scintilla	
INST. DWG.	Number			R-12450	R-16695	R-9456	R-12460	
DIMENSIONS	Diameter			44.13	44.19	43.88	43.88	
	Length			54.50	54.50	53.66	54.50	
A.T.C.	Number		95	95		107	107	95
AIRPLANE	Installations						Boeing 247A	Boeing 247A (PW4A Transport)
NOTES		None manufactured.		None manufactured.	None manufactured.	None manufactured.		(See 5364-G) Engine numbers X52, 202, 247

ENGINE MODEL	Type P & W A Air Force Navy	Twin Weasp Jr. SA2A-G1	Twin Weasp Jr. SA4A-G1	Twin Weasp Jr. SA4A-G	Twin Weasp Jr. SA1A5-G	Twin Weasp Jr. SA2A-G	Twin Weasp Jr. SA4A-G	Twin Weasp Jr. SA2A5-G
SPECIFICATION	Number	PW-605	PW-611	PW-609	PW-4031	PW-620	PW-4030	
RATINGS	Take Off	650/2400	700/2500	700/2500	750/2500	700/2500	725/2500	825/2560
	Military							
	Normal	650/2400/3500	700/2500/6000	700/2500/9000	750/2500/S.L.	700/2500/6500	725/2500/4000	750/2550/2500
	Max. Cont.							
	Cruise							
FUEL	Grade	80	87	87	87	87	87	87
CURVES	Spec. Oper.	1835		2463	T-185	T-138	T-184	T-281 T-134
WEIGHT, DRY	Pounds	1025	1025		1070	1070	1070	1130
PROP. SHAFT	Ratio	4:3	4:3	4:3	4:3	4:3	3:2	4:3
	Spline	40	40	40	40	40	40	40
CYLINDERS	Comp. Ratio	6:1	6.5:1	6.5:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	6:1	10:1	11.5:1	6.7:1	10:1	6.7:1	6.7:1
CARBURETOR	Model	NA-Y9A	NA-Y9A	NA-Y9A	Stromberg	Stromberg	Stromberg	NA-Y9E1
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	SE14R-1A
INST. DWG.	Number	R-9456	R-9456	R-9456	R-22523	R-22523	R-22523	R-20761
DIMENSIONS	Diameter	43.88	43.82	43.68	44.13	44.13	44.13	44.13
	Length	54.66	53.66	53.66	53.25	53.25	53.25	
A.T.C.	Number					165		
AIRPLANE	Installations					Vought SBU-1 Vought V-142		
NOTES		None manufactured.	None manufactured.		None manufactured.		None manufactured.	As of 4-7-47 Eng. #422 installed in special racing ship owned by Mr. Hal Marcoux and flown by Earl Ortman. Some -13's changed to commercial for Northrop A-17A British installation.

PRATT & WHITNEY AIRCRAFT ENGINES  
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp Jr. S3A5-G	Twin Wasp Jr. SB-G	Twin Wasp Jr. SB4-G	Twin Wasp Jr. SB4-G	Twin Wasp Jr. SB4-G
SPECIFICATION	Number	PW-4032	PW-401B	PW-402B-D	PW-402B-D	PW-4042
RATINGS	Take Off	700/2500	825/2630	825/2625	825/2625	700/2500
	Military			825/2625/7200	825/2625/7200	
	Normal	700/2500/8500	750/2550	750/2550/9500	750/2550/9500	650/2500/8500
	Max. Cont.					
	Cruise					
FUEL	Grade	87	87	87	87	87
CURVES	Spec. Oper.	T-207	T-95	T-220	T-220, T-190	T-132
	Oper.					
WEIGHT, DRY	Pounds	1070	1163	1124	1126	1136
PROP. SHAFT	Ratio	4:3	3:2	3:2	4:3	4:3
	Spline	40	40	40	40	40
CYLINDERS	Comp. Ratio	6.7:1	6.75:1	6.75:1	6.75:1	6.75:1
IMPELLER	Ratio	10:1	11:1	11:1	11:1	8.7:1
CARBURETOR	Model	Stromberg	Stromberg	NA-Y9H	NA-Y9J	NA-Y9G1
MAGNETOS	Model	Scintilla	Scintilla	SB14R-1A	SB14R-1A	SB14R-1A
INST. DWG.	Number	R-22523	R-16972	R-31063	R-31083	R-31063
DIMENSIONS	Diameter	44.13	44.13	44.13	44.13	44.13
	Length	53.25	53.25	53.27	53.27	53.27
A.T.C.	Number	165		179		
AIRPLANE	Installations			Fokker G-1 Vought V-143	Breguet 690-C (Fr.) Breguet 696-AB21 (Fr.) Breguet 690-B2 (Fr.) Bristol Bolingbroke Eng. No. 1460, 2559, (Can.) Miles Master III (Br.) Poles 63-12 (Fr.) Can. Car & Foundary Model 10	Special for Boeing 247A PWA transport 247A PWA transport
NOTES						PWA 247-A disposed of by burning. Logged 4438 hours and 700,000 miles since November 1933 to March 6, 1947.

ENGINE MODEL	Type P & W A Air Force Navy					
SPECIFICATION	Number					
RATINGS	Take Off					
	Military					
	Normal					
	Max. Cont.					
	Cruise					
FUEL	Grade					
CURVES	Spec. Oper.					
	Oper.					
WEIGHT, DRY	Pounds					
PROP. SHAFT	Ratio					
	Spline					
CYLINDERS	Comp. Ratio					
IMPELLER	Ratio					
CARBURETOR	Model					
MAGNETOS	Model					
INST. DWG.	Number					
DIMENSIONS	Diameter					
	Length					
A.T.C.	Number					
AIRPLANE	Installations					
NOTES						

PRATT & WHITNEY AIRCRAFT ENGINES  
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535
		-1	-2	-3	-5	-7	-9	-11
SPECIFICATION	Number		N-4040			4006		4017
RATINGS	Take Off	700/2500	825/2630	700/2500	700/2500	725/2500	725/2500	750/2500
	Military							
	Normal	700/2500/S.L. to 4000	750/2250/9500	700/2500/S.L. to 6500	700/2500/S.L. to 9000	725/2500/4000	725/2500/4000	750/2500/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	87	92	91		87	87	87
CURVES	Spec. Oper.	3096	T-279			T-269 3005		3204
WEIGHT, DRY	Pounds		1142	960	833	1102	1090	1102
PROP. SHAFT	Ratio Spline	3:2 40	3:2 40	3:2 40	3:2 40	3:2 40	3:2 40	4:3 40
CYLINDERS	Comp. Ratio	6.66:1	6.75:1	6.66:1	6.66:1	6.7:1	6.66:1	6.7:1
IMPELLER	Ratio	8:1	11:1	9:1	11:1	8.7:1	8:1	8.7:1
CARBURETOR	Model		PD-901			NA-Y9J		NA-Y9E1
MAGNETOS	Model		SB14RN-3					
INST. DWG.	Number		R-38122			R-14906		R-14906
DIMENSIONS	Diameter Length		44.19 56.06	43.87 54.50		44.12 54.50	44.12	44.12 54.50
A.T.C.	Number							
AIRPLANE	Installations		Vought SB2U-3 Vought SBU-3			Douglas XO-46 Douglas O-46A		Northrop RA-17
NOTES		None manufactured.		None manufactured. Similar -1 except super gear ratio & ratings.	None manufactured. Similar -3 except super gear ratio & ratings.		None manufactured. Similar -7 except auto. mixture control.	*Also sold commercially. Similar -7 except carb.

ENGINE MODEL	Type P & W A Air Force Navy	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535
		-13	-15	-62	-64	-66	-72	-78
SPECIFICATION	Number							
RATINGS	Take Off	625/2580	750/2500	640/1890	950/2540	700/2500	700/2250	
	Military							
	Normal	750/2500/2500	750/2500/S.L.	700/2100/S.L.		700/2500/8900	650/2200/7500	
	Max. Cont.							
	Cruise							
FUEL	Grade	92	87			87	87	
CURVES	Spec. Oper.	T-261					2942	
WEIGHT, DRY	Pounds	1130	1100					
PROP. SHAFT	Ratio Spline	4:3 40	4:3 40	D.O. 40		4:3 40	D.O. 40	
CYLINDERS	Comp. Ratio	6.7:1	6:1	6.5:1		6.75:1	6.75:1	
IMPELLER	Ratio	8.7:1	8.7:1	8:1		10:1	12:1	
CARBURETOR	Model	NA-Y9E1	NA-Y9E			NA-Y9D	NA-Y9D1 NA-Y9E1	
MAGNETOS	Model	SB14R-1A						
INST. DWG.	Number	R-20761	R-21701			R-12460		
DIMENSIONS	Diameter Length	44.13 53.25	45.00 55.50					
A.T.C.	Number							
AIRPLANE	Installations	Northrop RA-17A				Great Lakes SBG-1	Grumman P2F-1 Grumman XP3F-2 Grumman XP3F-1	
NOTES		*Some changed to 5245-G for British. Similar -7 except ratings & carb.	None manufactured. Similar -11 except "C" cylinders.	*Sold as Twin Wasp Jr. TA-G		Manually greased valve rockers. *Also sold commercially.		

PRATT & WHITNEY AIRCRAFT ENGINES  
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ENGINE MODEL	Type P & W A Air Force Navy	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535	R-1535
		-82	-84	-86	-88	-92	-94	-96
SPECIFICATION	Number		4014					EP-11A
RATINGS	Take Off	750/2500	700/2250	825/2625	825/2625		825/2630	825/2630
	Military							
	Normal	700/2500/8900	650/2200/7500	750/2550/10000	750/2550/9000	800/2650/9000	750/2550/9000	750/2550/9000
	Max. Cont.							
	Cruise							
FUEL	Grade	87	87	100	87		87	87
CURVES	Spec. Oper.	2446	T-83	T-201	T-203		T-285 T-205	T-279, 286
	Weight, Dry						1122	1122
PROP. SHAFT	Ratio Splines	4:3 40	D.D. 40	4:3	4:3		4:3 40	3:2 40
CYLINDERS	Comp. Ratio	6.75:1	6.75:1	7.11:1	6.7:1		6.75:1	6.75:1
IMPELLER	Ratio	10:1	12:1	8.84:1	11:1		11:1	11:1
CARBURETOR	Model	NA-Y9E1	NA-Y9D1 NA-Y9E1				NA-Y9E1	NA-Y9J NA-Y9E1 SB14RW-3
MAGNETOS	Model						SB14RW-3	
INST. DWG.	Number	R-16695	R-17970					R-29700
DIMENSIONS	Diameter						44.13	44.13
	Length						53.25	53.25
A.T.C.	Number							
AIRPLANE	Installations	Great Lakes XBG-1 Vought SBU-1 Vought XSB3U-1	Grumman F3F-1				Curtiss SBC-3 Northrop BT-1 Vought SB2U-3	Vought SB2U-1 Vought SB2U-2 Vought XSB2U-3
	Notes	Automatic rocker lubrication		Fuel injector.		Experimental.	Two bearing generator drive follows type blower gears.	Two bearing generator drive follows type blower gears.

ENGINE MODEL	Type P & W A Air Force Navy	R-1535						
		-98						
SPECIFICATION	Number	4035						
RATINGS	Take Off	750/2500						
	Military							
	Normal	700/2500/8900						
	Max. Cont.							
	Cruise							
FUEL	Grade	87						
CURVES	Spec. Oper.							
	Weight, Dry							
PROP. SHAFT	Ratio Splines	4:3 40						
CYLINDERS	Comp. Ratio	6.75:1						
IMPELLER	Ratio	10:1						
CARBURETOR	Model	PD-9D1 NA-Y9E1						
MAGNETOS	Model							
INST. DWG.	Number	R-21550						
DIMENSIONS	Diameter							
	Length							
A.T.C.	Number							
AIRPLANE	Installations	Vought SBU-2 Vought SB2U-2						
	Notes							