

TWIN WASP & R-2000  
DESIGNATED ENGINES R-2000

TWIN WASP (R-2000)				PAGE	*TWIN WASP
P & WA	PAGE NO.	AIR FORCE	NAVY	NO.	VERSION
SD-G	E13	X-1		E15	2SD-G
2SD-G	E13	.	X-2	E15	TSD-G
2SD1-G	E13	-3		E15	2SD-G
TSD2-G	E13		-4	E15	2SD13-G
D3	E13	-5		E15	2SD-G
D4	E13	-7	-7	E15	2SD-G
D5	E13	-9, -9A	-9, -9A	E16	2SD1-G
D6	E14	-11		E16	2SD11-G
D7	E14	-13		E16	2SD13-G
D8	E14				
D9	E14				
2SD11-G	E14				
2SD12-G	E14				
2SD13-G	E14				
D14	E14				

\*Similar to Military counterpart in certain respects.

(Continued on page E3)

PRATT & WHITNEY AIRCRAFT ENGINES  
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy
SPECIFICATION	Number
RATINGS	Take Off
	Military
	Normal
	Max. Cont.
	Cruise
FUEL	Grade
CURVES	Spec. 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	

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-2000) SD-0	Twin Wasp (R-2000) SD-0	Twin Wasp (R-2000) 2SD1-0	Twin Wasp (R-2000) TSD2-0	Twin Wasp (R-2000) DS	Twin Wasp (R-2000) D4	Twin Wasp (R-2000) DS
SPECIFICATION	Number	PW-9006	PW-9004	PW-9022	PW-9025	9025	*9031	9030
RATINGS	Take Off	1300/2700	1350/2700	1450/2700	1450/2800	1450/2700/1000	1450/2700	1450/2700/2800
	Military		1350/2700/2000	1450/2700/1000 1100/2700/16000	1450/2800/1500			
	Normal	1100/2550/6200	1100/2550/7000 1000/2550/14000	1100/2550/7500 1000/2550/17000	1100/2550/7500 1200/2550/5000	1200/2550/5000	1100/2550/7500	1200/2550/6400
	Max. Cont.				stand-by			
	Cruise							
FUEL	Grade	90	100/130	100/130	100/130	100/130	100/130	100/130
CURVES	Spec. Oper.	T-675-C	T-594 Inst. 1683	T-925 Inst. 1727	T-976	T-1001 Inst. 7244	Conversion Inst. 7227	T-1034 Inst. 7279
WEIGHT, DRY	Pounds	1530, 1540	1570	1590	1570, 1580	1575	1570 approx.	1585
PROP. SHAFT	Ratio Spline	2:1, 16:9 50	2:1 50	2:1 50	2:1, 16:9 50	2:1 50	2:1 50	2:1 50
CYLINDERS	Comp. Ratio	6.7:1	6.6:1	6.5:1	6.5:1	6.5:1	6.5:1	6.5:1
IMPELLER	Ratio	7.15:1, 8.47:1	7.15:1, 8.47:1	7.15:1, 9.82:1	7.15:1	7.15:1	7.15:1	7.15:1
CARBURETOR	Model	PD12FB	PD12FS-10 PD12FE-10, SF14RNB	PD12FB	Optional	PD12FB	PD12FB	PD12F13
MAGNETOS	Model	SF14LNB	SF14RNB	SF14LNB	Optional	SF14LNB	SF14LNB	SF14LNB
INST. DWG.	Number	90001	R-90201			95901		95901
DIMENSIONS	Diameter Length	46.40 61.02	49.50 59.63	49.10 61.02	49.50 61.02	49.10 61.02	49.10 61.02	49.10 59.66
A.T.C.	Number		230	230		230	230	230
AIRPLANE	Installations			Douglas DC-4 Skymaster		Douglas DC-4 (N.A.L.)		*Douglas DC-4 (E.A.L.) Douglas DC-3 (PAA)(Canadian Shell Ltd)
NOTES		None manufactured.			None manufactured.		*Assigned for identification purposes only for Delta to convert 2SD1-0 to single speed. No engine built.	*2SD13-0 without high speed gear. Like DS except for -7 impeller and diffuser.

PRATT & WHITNEY AIRCRAFT ENGINES  
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-2000) D6	Twin Wasp (R-2000) D7	Twin Wasp (R-2000) D8	Twin Wasp (R-2000) D9
SPECIFICATION	Number	9032	9033	9036	9038
RATINGS	Take Off	1450/2700/2800	1450/2700/2800	1200/2550/6400	1450/2700/2800
	Military				1450/2700/2800
	Normal	*1100/2550/9100**	1200/2550/6400	1200/2550/6400	1200/2550/6400
	Max. Cont.				
	Cruise				
FUEL	Grade	100/130	100/130	100/130	100/130
CURVES	Spec. Oper.	Inst. 7279 conversion	T-1093	T-1155	T-1243
WEIGHT, DRY	Pounds	1570 approx.	*1595	1585	1585
PROP. SHAFT	Ratio	2:1	.5625	.500	.5625
	Spline	50	50	50	51
CYLINDERS	Comp. Ratio	6.5:1	6.5:1	6.5:1	
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	
CARBURETOR	Model	PD12FB	PD12F13	PD-12F13	PD-12F13
MAGNETOS	Model	SF14LN8	SF-14LN-8	SF-14LN-8	SF-14LN-8
INST. DWG.	Number	95901	147701	95901	240701
DIMENSIONS	Diameter	49.10	49.10	49.10	49.10
	Length	61.02	60.50	59.65	60.50
A.T.C.	Number		230		
AIRPLANE	Installations			Military	Military
NOTES	<p>***Assigned for identification purposes only. The D6 is structurally identical with the D5. *1100 bph is normal rated power in low gear on 2SD1-G. **5100 critical is representative of D5 operating curve Inst. 7279. Eng'g has no official figure. None manufactured.</p> <p>*Includes torque-meter. Structurally identical with D5 except incorporates Double Wasp type torque-meter. None manufactured.</p> <p>Similar D5 except ratings. Horizontal helicopter application. None manufactured.</p> <p>*Prepared for Canadian military interest and possibly CPWA mfg. None manufactured.</p>				

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-2000) 2SD11-G	Twin Wasp (R-2000) 2SD12-G	Twin Wasp (R-2000) 2SD13-G	Twin Wasp (R-2000) D14
SPECIFICATION	Number	None	PW-9024	9027	9034
RATINGS	Take Off		1450/2800	1450/2700/1000	1450/2700/1000
	Military		1450/2800/1500 1100/2700/16000		
	Normal		1100/2550/7500 1000/2550/17000 1200/2550/5000 1050/2550/14000 1050/2550/15500 by	1200/2550/5000 1100/2550/14000	1200/2550/5000 1100/2550/14000
	Max. Cont.				
	Cruise				
FUEL	Grade		100/130	100/130	100/130
CURVES	Spec. Oper.	Inst. 1712	T-963	T-969 Inst. 1743	T-1094
WEIGHT, DRY	Pounds		1560, 1600	1605	*1615
PROP. SHAFT	Ratio		2:1, 16:9	2:1	.5625
	Spline		50	50	50
CYLINDERS	Comp. Ratio		6.5:1	6.5:1	6.5:1
IMPELLER	Ratio		7.15:1, 9.52:1	7.15:1, 9.52:1	7.15:1, 9.52:1
CARBURETOR	Model		PD12FB	PD12FB-22 PD-12F13	PD-12F13
MAGNETOS	Model		SF14LN8	SF14LN8	SF-14LN-8 (H.T.)
INST. DWG.	Number		95901	95901	147701
DIMENSIONS	Diameter		49.50	49.10	49.10
	Length		61.02	59.65	60.50
A.T.C.	Number			230	230
AIRPLANE	Installations			Cancargo CBY-3 Douglas DC-4 Douglas C-47 Svenska Aeroplan Aktiebolaget -90A1	
NOTES	<p>Similar to -9 except for ratings and standards by ratings added. None manufactured.</p> <p>Similar to -9 except incorporates muff barrels and differences in ratings.</p> <p>*Includes torque-meter. Structurally identical with 2SD13-G except incorporates Double Wasp type torque-meter. None manufactured.</p>				

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SPECIFICATION	Number
RATINGS	Take Off
	Military
	Normal
	Max. Cont.
	Cruise
FUEL	Grade
CURVES	Spec. 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

ENGINE MODEL	Type P & W A Air Force Navy	R-2000 X-1	R-2000 X-2	R-2000 -3	R-2000 -4	R-2000 -5	R-2000 -6	R-2000 -7
SPECIFICATION	Number	A-9027	R-9020	A-9019	N-9035	A-9019D App. A		A-9019D
RATINGS	Take Off	1350/2700	1350/2700	1350/2700	1450/2700/1000	1350/2700		1350/2700
	Military	1350/2700/2000 1100/2700/13200	1350/2700/26.5 mp	1350/2700/2000		1350/2700/2000		1350/2700/2000
	Normal	1100/2550/2000 1000/2550/14000	1100/2550/26.0 mp	1100/2550/2000 1000/2550/14000	1200/2550/5000 1100/2550/14000	1100/2550/2000 1000/2550/14000		1100/2550/2000 1000/2550/14000
	Max. Cont.							
	Cruise							
FUEL	Grade	100	100	100	100/130	100		100
CURVES	Spec. Oper.	T-711	T-635	T-816 Inst. 1702	T-1102	T-616		T-616 Inst. 1702
WEIGHT, DRY	Pounds	1550	1410	1570	1605	1555		1570
PROP. SHAFT	Ratio Spline	2:1 50	none	2:1 Torquemeter 50	2:1 50	2:1 Torquemeter 50		2:1 50
CYLINDERS	Comp. Ratio	6.52:1	6.52:1	6.52:1	6.5:1	6.52:1		6.52:1
IMPELLER	Ratio	7.15:1, 8.47:1	7.15:1	7.15:1, 8.47:1	7.15:1, 9.52:1	7.15:1, 8.47:1		7.15:1, 8.47:1
CARBURETOR	Model	PD12F3	PD12F7	PD12F5-10 PD12F6-10, 7-10	PD12F13-26	PD12F7-10		PD12F5-10 PD12F7-10 EF14RNB
MAGNETOS	Model	SF14RB	SF14RN-B	SF14RN6	SF14LN-6	SF14RN6		SF14RN6
INST. DWG.	Number	R-49271	R-75001	R-43463	1484C1	R-59601		R-43463
DIMENSIONS	Diameter Length	49.10 60.74	49.50	49.10 59.65	49.25 59.75	45.10 59.65		49.10 59.65
A.T.C.	Number							
AIRPLANE	Installations	Wright Field Exp.	Vought XF5U-1	Douglas C-54, A Douglas R5D-1	Douglas R5D-1 Douglas R5D-2 Douglas R5D-3 Douglas R5D-4			Douglas R5D-1,-2 Douglas C-54A, B, C, F

NOTES

R-1630-54  
Accessory Drives

Has an E Rear  
Section

\*69 sold as  
2SD13-G for -5  
and -54 replace-  
ment.

Similar -3 except  
torquemeter, car-  
buretor. None  
manufactured.

\*\*1 sold commercially  
also -7 sold to Navy.  
Similar to -3 except  
for dual cam drive  
gears.

PRATT & WHITNEY AIRCRAFT ENGINES  
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-2000	R-2000	R-2000	R-2000
		-9 *-9	-9A -9A	***-11	*-13
SPECIFICATION	Number	A-9021A		A-9025	*A-9026
RATINGS	Take Off	1450/2700		*1350/2700	1450/2700
	Military	1450/2700/1000 1100/2700/16000	Nav Aer O2A-10F-500 mod. 1F converted 376 R-2000-11 by NAVY. Conversion	1350/2700/3000 1100/2700/16000	1450/2700/1000 1100/2700/16000
	Normal	1100/2550/7500 1000/2550/17000	incorporates R-2000-9 ratings, new plain main bearings., wide cam, high capacity rear oil pressure pump & new piston Assy. Retains -11 installation features.	1100/2550/7500 1000/2550/17000	1200/2550/3000 1050/2550/15500
	Max. Cont.				
	Cruise				
FUEL	Grade	100/130		100/130	100/130
CURVES	Spec. Oper.	T-870 Inst. 1726		T-954, T-954F Inst. 1704	T-682
WEIGHT, DRY	Pounds	1590		1580	1595
PROP. SHAFT	Ratio Splines	2:1 50		2:1 50	1.500:1 50
CYLINDERS	Comp. Ratio	6.52:1		6.52:1	6.5:1
IMPELLER	Ratio	7.15:1, 9.52:1		7.15:1, 9.52:1	7.15:1, 9.52:1
CARBURETOR	Model	PD12PB-21		PD12P7-19	PD-12P13
MAGNETOS	Model	SF14LN8		SF14RN8	SF-14RN-6
INST. DWG.	Number	R-90501		R-91601	107401
DIMENSIONS	Diameter Length	45.10 61.02		49.17 55.62	45.50 61.25
A.T.C.	Number				Military
AIRPLANE	Installations	Douglas R5D-2 Douglas R5D-5,-6 Douglas C-540		Chase YC122 **Douglas R5D-3,-4 Douglas C-54D Douglas C-54E	
NOTES		Similar to -7 ex- cept plain main bearings, spark advance 25 deg. to 27 degrees, grooved diffuser, creeping clutches, ratings. *Also sold to Navy. Also built by Buick.		**Several replaced by R-2000-9A. Similar to -7 except for high ratio impel- ler, 25 deg. spark advance. *1450 HF if incorpo- rate plain main bearings. ***1 sold commercially.	*The -13 designation not actually assign- ed to spec. since contract was cancel- led after VJ Day.

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