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TWIN WASP & R-1830
DESIGNATED ENGINES

TWIN WASP (R-1830)

R-1830

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*Similar to Military counterpart in certain respects.

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*Similar to Military counterpart in certain respects.

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PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

RESTRICTED
SECURITY INFORMATION

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-1830) +A-G	Twin Wasp (R-1830) SA-G	Twin Wasp (R-1830) T1A-G	Twin Wasp (R-1830) T1A1-G	Twin Wasp (R-1830) T2A-G	Twin Wasp (R-1830) S1A-G	Twin Wasp (R-1830) SA2-G
SPECIFICATION	Number	none	PW-607	PW-603	none	PW-607	PW-610	PW-607
RATINGS	Take Off		750/2300	800/2400		750/2300	800/2400	750/2400
	Military							
	Normal	830/2400/S.L.	750/2300/7000	800/2400/S.L.	830/2400/S.L.	750/2300/S.L.	800/2400/7000	750/2400/6500
FUEL	Grade Octane	86	80	87	86	80	87	80
CURVES	Spec. Oper.	2466	TW-1 2085	1507		1837	2465	2464
WEIGHT, DRY	Pounds	1150	1275	1183	1150	1183	1225	1174
PROP. SHAFT	Ratio Spine Rotation, viewed from antiprop. end	3:2 40 CC	3:2 50 C	3:2 50 C	3:2 40 CC	3:2 50 C	3:2 50 C	3:2 50 C
CYLINDERS	Comp. Ratio	6.5:1	6:1	6.5:1	6.5:1	6:1	6.5:1	6:1
IMPELLER	Ratio	8:1	10:1	8:1	8:1	8:1	11:1	10:1
CARBURETOR	Model	NA-Y9A	NA-Y9A	NA-Y9A	NA-Y9A	NA-Y9A	NA-Y9A	Stromberg
MAGNETOS	Model	QM14-D-B	Scintilla	Scintilla	QM14-D-B	Scintilla	Scintilla	Scintilla
INST. DWG.	Number		R-11300	R-9641		R-9641	R-11300	R-11300
DIMENSIONS	Diameter Length		47.88 56.23	47.88 56.94		47.88 56.94	47.88 56.94	47.88 56.25
A.T.C.	Number	96		96	96			
AIRPLANE	Installations							
NOTES		*Sold to Navy		None manufactured.	None manufactured.	None manufactured.		None manufactured.

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-1830) S1A2-G	Twin Wasp (R-1830) S1A3-G	Twin Wasp (R-1830) S1A4-G	Twin Wasp (R-1830) S2A4-G	Twin Wasp (R-1830) S2A5-G	Twin Wasp (R-1830) SB-G	Twin Wasp (R-1830) SB-C
SPECIFICATION	Number	PW-610	none	PW-618	PW-619	PW-621	PW-5027	PW-5012
RATINGS	Take Off	800/2400	900/2465/S.L.	830/2400	950/2550	950/2550	1000/2350	1000/2600
	Military							
	Normal	800/2400/7000	830/2400/6000	830/2400/6000	830/2400/3800	830/2400/3600		900/2450/6500
FUEL	Grade Octane	87	87	87	87	87	87	87
CURVES	Spec. Oper.	2976		T-58	T-97	T-58	T-182	T-222
WEIGHT, DRY	Pounds	1174	1150	1223	1235	1235	1135	1284
PROP. SHAFT	Ratio Spine Rotation, viewed from antiprop. end	3:2 50 C	3:2 50 CC	3:2 50 C	3:2 50 C	3:2 50 C	3:2 40 C	3:2 50 C
CYLINDERS	Comp. Ratio	6.5:1	6.5:1	6.5:1	6.5:1	6.7:1	6.5:1	6.7:1
IMPELLER	Ratio	11:1	11:1	11:1	10:1	10:1	12:1	12:1
CARBURETOR	Model	Stromberg	NA-Y9B, NA-Y9C	Stromberg	Stromberg	NA-Y9C	Stromberg	NA-Y9E1
MAGNETOS	Model	Scintilla	SB-142N1A QM-14-D8-3	Scintilla	Scintilla	SB-142N1A	Scintilla	SB14-R1A
INST. DWG.	Number	R-11300		R-11300 R-15106	R-11300 R-15106	R-11300 R-15106	R-22617	R-16973
DIMENSIONS	Diameter Length	47.88 56.25		47.88 56.75	47.88 56.75	47.88 56.75	48.00 56.66	48.00 55.48
A.T.C.	Number	137	137	137	160	167		158
AIRPLANE	Installations					Martin Clipper	Junkers JU-90	Breda BR-65
NOTES		None manufactured.	None manufactured.		None manufactured.	Engines later modified to incorporate "B" cylinders, etc.		

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

RESTRICTED
SECURITY INFORMATION

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-1830) S1B-G	Twin Wasp (R-1830) S2B-G	Twin Wasp (R-1830) S3 G-G	Twin Wasp (R-1830) SC-G	Twin Wasp (R-1830) SC1-G	Twin Wasp (R-1830) SC1-G	Twin Wasp (R-1830) SC1-G
SPECIFICATION	Number	PW-5013	PW-5014	PW-5020-A	PW-5028-C	PW-5028-C	PW-5028-B	PW-5063
RATINGS	Take Off	950/2540	750/2400	1000/2600	1050/2700	1050/2700	950/2700	1050/2700
	Military							
	Normal		750/2400/6500	900/2450/6500	900/2550/11000	900/2550/11000	850/2550/13500	900/2550/12000
FUEL	Grade Octane	87	80	87	87	87	Avroref B (special)	87
CURVES	Spec. Oper.	3201	3202	T-222 T-211, T-214	T-61 T-206	T-61 T-206		T-419
WEIGHT, DRY	Pounds	1250	1250	1310	1423	1423	1407	1432, 1444, 1407
PROP. SHAFT	Ratio Spline Rotation, viewed from antiprop. end	3:2 50 C	3:2 50 C	3:2 50 C	16:9 50 C	3:2 50 C	3:2 50 C	2:1, 16:9, 3:2 50 C
CYLINDERS	Comp. Ratio	6:1	6:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	10:1	10:1	12:1	7.15:1	7.15:1	7.15:1	7.15:1
CARBURETOR	Model	Stromberg	Stromberg	Stromberg	NA-C12D	*NA-C12DX NA-C12D-7 **NA-C12E1	Stromberg	Stromberg
MAGNETOS	Model	Scintilla	Scintilla	Scintilla	SF14L-6	SF14L-6	Scintilla	Scintilla
INST. DWG.	Number	R-16973	R-16973	R-21260	R-28089	R-28089	R-28089	
DIMENSIONS	Diameter Length	48.00 56.69	48.00 56.69	48.00 55.49	48.00 59.90	48.00 59.30	48.00 59.25	48.00 59.30 (2:1, 3:2) 59.90 (16:9)
A.T.C.	Number			158	186	186		
AIRPLANE	Installations			Douglas DC-3A Douglas DSTA	Curtiss R-75-C1 (Fr.) Douglas DC3-A Douglas DSTA Seversky S2	*Bloch 153-C1 (Fr.) *Bloch 176 (Fr.) **Bloch 176 (Fr.) **Savoia Marchetti SM-87 (Italy)		
NOTES		None manufactured.	None manufactured.			*153C1 Eng. #1625 *176 Eng. #L-1632, R-1686 **176 Eng. #L-1265, R-1218 **SM-87 Eng. #L-1400, C-1420, R-1401	None manufactured.	None manufactured.

MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Twin Wasp (R-1830) S1C-G	Twin Wasp (R-1830) S3C-G	Twin Wasp (R-1830) S1C1-G	Twin Wasp (R-1830) S3C1-G	Twin Wasp (R-1830) SC2-G	Twin Wasp (R-1830) S1C2-G	Twin Wasp (R-1830) SC3-G
SPECIFICATION	Number	PW-5040-B	PW-5050	PW-5064	PW-5065	PW-5041	PW-5044	PW-5053-D
RATINGS	Take Off	1200/2700	1100/2700	1200/2700	1100/2700	1200/2700	1200/2700	1050/2700
	Military							1050/2700, 7700 1000, 2800, 11500
	Normal	1050/2550/6500	1050/2550/8400	1050/2550/7500	950/2700/14300	1050/2550/4000 Primary 1050/2550/11000 Avn. Low 1050/2550/22500 Avn. High	1050/2550/5000 1050/2550/10000	900/2550/12000
FUEL	Grade Octane	*100	100	100	100	100	100	87
CURVES	Spec. Oper.	T-273	T-403	T-420	T-417	T-322	T-355	T-406 T-206
WEIGHT, DRY	Pounds	1428, 1433, 1403	1428, 1433, 1403	1432, 1444, 1407	1432, 1444, 1407	1630, 1635, 1605	1630, 1635, 1605	1438
PROP. SHAFT	Ratio Spline Rotation, viewed from antiprop. end	2:1, 16:9, 3:2 50 C	2:1, 16:9, 3:2 50 C	2:1, 16:9, 3:2 50 C	2:1, 16:9, 3:2 50 C	2:1, 16:9, 3:2 50 C	2:1, 16:9, 3:2 50 C	3:2 50 C
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1			6.7:1
IMPELLER	Ratio	7.15:1	6:1	7.15:1	8:1			7.15:1
CARBURETOR	Model	NA-C12E-1	Stromberg	Stromberg	Stromberg	Stromberg	Stromberg	NA-C12D2
MAGNETOS	Model	SF14LN-4	Scintilla	Scintilla	Scintilla	Scintilla	Scintilla	SF-14L3
INST. DWG.	Number	R-28089	R-28089			R-27421	R-27421	R-33708
DIMENSIONS	Diameter Length	48.00 59.25	48.00 59.30 (2:1, 3:2) 59.90 (16:9)	48.00 59.30 (2:1, 3:2) 59.90 (16:9)	48.00 59.3 59.9	48.00 70.97	48.00 71.88	48.13 60.94
A.T.C.	Number	186						186
AIRPLANE	Installations							
NOTES		*Certificated for 90 fuel.	None manufactured.	None manufactured.	None manufactured.	First 2 stage Double None manufactured. Wasp Engine - Announced on Feb. 1938 Confidential Index.		

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

RESTRICTED
SECURITY INFORMATION

ENGINE MODEL	Type P & W A Air Force Navy	Twin Whoop (R-1830) 8C3-G	Twin Whoop (R-1830) 8C3-G	Twin Whoop (R-1830) 8C3-G	Twin Whoop (R-1830) 81C3-G	Twin Whoop (R-1830) 81C3-G	Twin Whoop (R-1830) 83C3-G	Twin Whoop (R-1830) 84C3-G
SPECIFICATION	Number	PW-5053-D	PW-5053-D	PW-5053-D	5054	*PW-5054-B	PW-5052-A	PW-5108
RATINGS	Take Off	1050/2700	1050/2700	1050/2700	1200/2700/4900	1200/2700	1100/2700	1250/2700
	Military	1050/2700/7700 1000/2800/11500	1050/2700/7700 1000/2800/11500	1050/2700/7700 1000/2900/11500		1200/2700/3700	1100/2700/9000	1250/2700/1000
	Normal	900/2550/12000	900/1550/12000	900/2550/12000	*1050/2550/7500	*1050/2550/7500	950/2700/14300	1100/2550/4000
	Max. Cont.							
	Cruise							
FUEL	Grade	87	87	87	**91/98	**91	95	90
CURVES	Spec. Oper.	T-406 T-206	T-406 T-206	T-406 T-206	T-407 Inst. 1680 100/130 Inst. 1681 91/98 1487	T-407 Inst. 1680	T-421	T-583
WEIGHT, DRY	Pounds	1430	1436	1473		1473, 1438	1463, 1473, 1438	1440, 1450, 1420
PROP. SHAFT	Ratio Spline	3:2 50	3:2 50	16:9 50	16:9 90	16:9, 3:2 50	2:1, 16:9, 3:2 50	2:1, 16:9, 3:2 50
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	7.15:1	7.15:1	8:1	6.42:1
CARBURETOR	Model	CR1376DB1	PD1288	CR1376DB1 PD1288	***PD1281, -1, -11 **PD1288 ***PD1284, -1, -11	***PD1281, -1, -11 **PD1288, -1, -11	PD1288	NA-C12DX
MAGNETOS	Model	SF-14L6	SF-14L3	SF-14L3	SF-14L3	SF-14L3	SF-14L3	SF-14L3
INST. DWG.	Number	R-33708	R-33708	R-33708	33708	33708	33708	33708
DIMENSIONS	Diameter Length	48.13 60.94	48.13 60.94	48.13 61.90	48.19 61.16 (16:9)	48.19 61.67 (16:9)	48.13 61.50 (16:9)	48.13 61.50 (16:9)
A.T.C.	Number	186	186	186	186	61.06 (2:1, 3:2)	60.94 (2:1, 3:2)	60.94
AIRPLANE	Installations			Douglas DC3-A Douglas DSTA Bristol Beauport	*Douglas C-48B,C	Douglas DC-3C Lockheed Model 16.06 (3:2) Lockheed 866D Lockheed C-57 Model 16.10 Lockheed C-7, A, B Sukoreky VS44A (16:9)		
NOTES					*ATC for 1000/2700/10000 **Certificated originally for 100 oct. fuel. ***PD1281 has single separator PD1284 has dual -1 for 91/96 or 100/130 -11 for 91/96 only.	*ATC for 1000/2700/10000 **Certificated originally for 100 oct. fuel. ***PD1281 has single separator PD1284 has dual -1 for 91/96 or 100/130 -11 for 91/96 only.		None manufactured.

ENGINE MODEL	Type P & W A Air Force Navy	Twin Whoop (R-1830) 86C3-G	Twin Whoop (R-1830) 87C3-G	Twin Whoop (R-1830) 8C4-G	Twin Whoop (R-1830) 82C4-G	Twin Whoop (R-1830) 83C4-G	Twin Whoop (R-1830) 84C4-G	Twin Whoop (R-1830) 85C4-G
SPECIFICATION	Number	PW-5129	PW-5070	PW-5056	PW-5062	PW-5127	PW-5097-A	PW-5109
RATINGS	Take Off	1200/2700	1100/2700	1200/2700	1050/2700	1200/2700	1200/2700	1250/2700
	Military		1100/2700/6300		1050/2700/7700 800/2700/20500	1200/2700/4900 1050/2700/13100	1200/2700/3700 900/2700/17400	1250/2700/1000 900/2700/17400
	Normal	1050/2550/7500	1000/2550/9000	1050/2550/7500 950/2700/14300	900/2550/1200 800/2550/18500	1100/2550/6100 1000/2550/12500	1050/2550/7500 900/2550/15400	1100/2550/4000 900/2550/15400
	Max. Cont.							
	Cruise							
FUEL	Grade	100	90	100	87	**100/130	91	90
CURVES	Spec. Oper.	T-700	T-442	T-412	T-440	T-589, T-596 Inst. 1700	T-522	T-584
WEIGHT, DRY	Pounds	1467	1440, 1450, 1420	1468, 1480, 1443	1485, 1495, 1460	1492	1495, 1460	1460, 1490, 1460
PROP. SHAFT	Ratio Spline	16:9	2:1, 16:9, 3:2	2:1, 16:9, 3:2	2:1, 16:9, 3:2	16:9 50	16:9, 3:2 50	2:1, 16:9, 3:2 50
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	7.15:1, 8.47:1	7.15:1, 8.47:1	7.15:1, 8.47:1	6.42:1, 8.47:1
CARBURETOR	Model	PD-12H4	NA-C12DX	NA-C12DX	PD-12F2	Optional	PD-12F2-5 PD-12F3-5	PD-12F2
MAGNETOS	Model	SF-14L07	SF-14L6	SF14L6	SF14L3	Optional	SF14L3	SF14L3
INST. DWG.	Number	33708	R-32461	R-32547	R-32547	R-32547	R-32547	R-32547
DIMENSIONS	Diameter Length	48.19 61.16 (2:1, 3:2) (16:9)	48.00 59.75 (2:1, 3:2) (16:9)	48.00 64.00 (2:1, 3:2) (16:9)	48.13 63.31 (2:1, 3:2) (16:9)	48.19 63.44 (16:9) (3:2)	48.19 63.40 (2:1, 3:2) (16:9)	48.00 62.75 (16:9) 63.31
A.T.C.	Number	186	60.31 186	64.70	62.75	186	62.92 186	63.31
AIRPLANE	Installations					Bristol Beauport II (Aus) Comm. of Australia Boomerang Curtiss H-75C Douglas DC-3C Vought V-167 Vickers R-20	Douglas DC-3C Lockheed 18-14, (3:2)	
NOTES		None manufactured.	None manufactured.	None manufactured.		Decoupled nose indicated by adding D after G as follows: 83C4-GD *Also sold to Army. **Certificated for 95 fuel.		None manufactured.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Twin Whop (R-1830) S6C4-G	Twin Whop (R-1830) S81C5-G	Twin Whop (R-1830) S8C7-G	Twin Whop (R-1830) T5C9-G	Twin Whop (R-1830) 25C9-G	Twin Whop (R-1830) 25C10-G
SPECIFICATION	Number	PW-5110	PW-5117	PW-5135	PW-5138	PW-5137	based on PW-5137
RATINGS	Take Off	1250/2700	1200/2700	1200/2700	1350/2800	1350/2800	1350/2800
	Military	1250/2700/1000 1050/2700/13100	1200/2700/2700 1150/2700/2700 1100/2700/17800	1200/2700/2700 1150/2700/2700 1100/2700/17800	1350/2800/3900	1350/2800/3900 1100/2800/13500	1350/2800/3900 1100/2800/13500
	Normal	1100/2550/4000 1000/2700/14500	1100/2550/3600 1050/2550/11000 1000/2550/19000	1100/2550/3500 1050/2550/11000 1000/2550/19000	1100/2600/7500	1100/2600/6200 1000/2600/14500	1100/2500/6200 1000/2600/14500
	Max. Cont.						
	Cruise						
FUEL	Grade	95	100	100	100/130	100/130	100/130
CURVES	Spec. Oper.	T-506	T-842	T-690	T-800 Inst. 1741	T-806 Inst. 1728	T-888
WEIGHT, DRY	Pounds	1480, 1490, 1460	1585, 1595, 1560	1572, 1607	1548, 1555	1555, 1565	1555, 1566
PROP. SHAFT	Ratio Spline	2:1, 16:9, 3:2 50	2:1, 16:9, 3:2 50	3:2, 16:9 50	2:1, 16:9 50	2:1, 16:9 50	2:1, 16:9 50
CYLINDERS	Comp. Ratio	6.7:1			6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	6.42:1, 8.47:1			7.15:1	7.45:1, 8.47:1	7.45:1, 8.47:1
CARBURETOR	Model	PD-12F2	PD-12F2	PD-12E1	PD-12F8	PD-12F7	PD-12F8
MAGNETOS	Model	SF14L3	SF14L3	SF14F8	SF-14LH8	SF-14LH8	SF-14LH8
INST. DWG.	Number	R-32547	R-34512	R-49978	90001	90001	90001
DIMENSIONS	Diameter	48.00	48.13	48.19	48.40	48.40	48.40
	Length (2:1, 3:2) (16:9) 63.31	62.75 63.31	73.22 (2:1, 16:9) 72.66 (3:2)	67.44	61.02	61.02	61.02
A.T.C.	Number					186	186
AIRPLANE	Installations			Curtiss H-81A			
NOTES		None manufactured.	None manufactured.		None manufactured. Improved Acc'y Section Super- charger Cooling Fin and Muff Arrangement.	Automatic Spark Advance 25 degrees and 32 degrees. Improved Acc'y Section Super- charger Cooling Fin and Muff Arrangement.	None manufactured. Automatic Spark Advance 25 degrees and 37 degrees. Improved Acc'y Section Supercharger Cooling Fin and Muff Arrangement.

ENGINE MODEL	Type P & W A Air Force Navy	Twin Whop (R-1830) C-01
SPECIFICATION	Number	5145
RATINGS	Take Off	1050/2550/6500
	Military	
	Normal	1050/2550/6500
	Max. Cont.	
	Cruise	
FUEL	Grade	100/130
CURVES	Spec. Oper.	T-1154
WEIGHT, DRY	Pounds	
PROP. SHAFT	Ratio Spline	.5625 50
CYLINDERS	Comp. Ratio	6.7:1
IMPELLER	Ratio	7.15:1
CARBURETOR	Model	PD-12H4
MAGNETOS	Model	SF-14LN-3
INST. DWG.	Number	33708
DIMENSIONS	Diameter	48.19
	Length	61.16
A.T.C.	Number	Military
AIRPLANE	Installations	
NOTES		Similar S1C3-G except fuel & ratings. Helicopter Application.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830
		-1	-3	-5	-7	-9	-11	-13
SPECIFICATION	Number					5010	5019	5015
RATINGS	Take Off				950/2450	950/2450	1000/2600	1050/2700
	Military							
	Normal	600/2400/S.L.	800/2400/S.L.	650/2450/7000	650/2450/8000	650/2450/8000	650/2450/5000	900/2550/10000
	Max. Cont.							
	Cruise							
FUEL	Grade	87	87	87		87	87	91/93
CURVES	Spec. Oper.					T-74	T-101	T-72 T-351
WEIGHT, DRY	Pounds		1160			1292	1320	1370
PROP. SHAFT	Ratio	3:2	3:2	3:2	3:2	3:2	3:2	3:2
	Spline	50	50	50	50	50	50	50
CYLINDERS	Comp. Ratio	6.5:1	6.5:1	6.5:1	6.5:1	6.5:1	6.7:1	6.7:1
IMPELLER	Ratio	11:1	8:1	6.84:1	11.94:1	12:1	10:1	7.15:1
CARBURETOR	Model			Fuel Injection		NA-Y9E1	NA-Y9E1	NA-C12B
MAGNETOS	Model			SB-14R-1A		SB-14R-1A		SF14LN-4
INST. DWG.	Number					R-20165	R-19400	R-23130
DIMENSIONS	Diameter	48.00	48.00			48.00		48.06
	Length	57.00	57.00			55.06		59.25
A.T.C.	Number							
AIRPLANE	Installations	Martin XB14			Northrop XA-16	Northrop XA-16 Seversky P-35	Boeing XB-15 Boeing XC-105	Curtiss P-36A Curtiss P-36D Curtiss P-36F Curtiss RP-36

NOTES

Similar -1 except super. gear ratio.

Similar -3 except Exp. fuel injector and super. gear ratio.

Similar -5 except improved cyl's, c'shaft L.R., forged c'case & auto. mix. control, incorporates auto. Valve gear lub. gov. drag nose & updraft carb.

Similar -7 except auto. valve gear lubrication gov. dr. on nose section updraft carb. No auto. mix. control.

Similar -9 except super gear ratio, deep flined heads.

First "C" new heads, rear, 11" imp. long reach S.P. auto. valve gear lubrication downdraft carb. gov. drive on nose.

ENGINE MODEL	Type P & W A Air Force Navy	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830
		-15	-17	-19	-21	-23	-25	-27
SPECIFICATION	Number		5049	5045C	5051	5058		5071-A
RATINGS	Take Off	1000/2600	1200/2700	1200/2700	1200/2700	1100/2700	1100/2700	1050/2550
	Military					950/2700/14300	950/2700/14300	
	Normal	1000/2600/S.L.	1050/2550/6500	1050/2550/4000 1050/2550/11000 1050/2550/17500	1050/2550/6500	950/2700/14300	950/2700/14300	1000/2300/8500 1000/2450/11500 1000/2700/14500
	Max. Cont.							
	Cruise							
FUEL	Grade		100	100	100	100	100	100
CURVES	Spec. Oper.		T-402	T-423 T-447	T-405	T-403	T-403	T-451
WEIGHT, DRY	Pounds		1403		1433	1436		
PROP. SHAFT	Ratio	3:2	3:2	3:2	16:9	3:2	16:9	16:9
	Spline	50	50	50	50	50	50	50
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	10.12:1	7.15:1	8.06:1 6.43:1, 6.45:1	7.15:1	8:1	8:1	8.47:1
CARBURETOR	Model		NA-C12-D2	NA-U12A	NA-C12-D2	PD12B6		PD12B6
MAGNETOS	Model		SF14L-4	SF14L-4	SF14L-4	SF14LN-3		SF14LN-3
INST. DWG.	Number		R-27800	R-32462	R-32623	R-35057		R-33708
DIMENSIONS	Diameter		48.00		48.00	48.50		
	Length		59.25		59.25	65.00		
A.T.C.	Number							
AIRPLANE	Installations		Convair YA-19 Curtiss P-36A Curtiss P-36C		Douglas C-41 (DC-2) Douglas C-41A (DC-3)	Curtiss P-36B		

NOTES

B with stronger L.R. & "C" cyl's.

Similar -15 except lead coated silver MT bearings, strengthened cylinders, Rigid propeller drive aspirated carb.

Experimental. Similar -17 except two stage & carb.

Similar -19 except gearing.

Similar -21 except super gear ratio & ratings. Converted to -17.

Similar -23 except red. gear ratio.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS AND CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1830 -29	R-1830 -31	R-1830 -33	R-1830 -35	R-1830 -37	R-1830 X-39	R-1830 -41
SPECIFICATION	Number			A-5085D	A-5062C		A-5106B	A-5126
RATINGS	Take Off	1050/2550	1050/2550	1200/2700	1140/2700 without turbo 1200/2700 with turbo	1200/2700	1050/2700	1200/2700
	Military			1200/2700/5000	1200/2700/20000 with turbo		1050/2700/8700	1200/2700/25000 with turbo
	Normal	1000/2300/6500	1000/2300/8500 1000/2450/11500 1000/2700/14500	1100/2550/6100 1000/2700/14500	1100/2550/20000 with turbo	1100/2550/5000	900/2550/12000	1100/2550/6200 6200 to 25000 with turbo
	Max. Cont.							
	Cruise							
FUEL	Grade		100	100	100		100	100
CURVES	Spec. Oper.	T-451	T-451	T-445 Inst. 1730	T-414 T-534		T-579	T-648 T-717, Inst. 1682
	WEIGHT, DRY	Pounds	1473	1460	1450	1433	1515	1490
PROP. SHAFT	Ratio	16:9	16:9	2:1	18:9	3:2	2:1	2:1
	Spine	50	50	50	50	50	50	50
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6:1	6.7:1
IMPELLER	Ratio	8.47:1	8.47:1	7.15:1, 8.47:1	5.25:1	7.15:1	7.15:1, 8.47:1	7.15:1
CARBURETOR	Model	NA-C12D-2	NA-C12D-2	PD-12F2-4	NA-C12D-2	PD12B4	PD-12F2-109	PD-12F2-14
MAGNETOS	Model	SF14L-3		SF14LN-3	SF14LN-3	SF-14LN-4	SF-14LN-3	SF-14LU-7
INST. DWG.	Number			R-40543, R-33724, R-33726 R-47911		R-28089		R-47996
DIMENSIONS	Diameter	48.13		48.06	48.06	48.00	48.50	R-45761 48.06
	Length	61.50		63.48	61.59	59.25	63.41	62.42
A.T.C.	Number							
AIRPLANE	Installations		Curtiss XP-42 Martin YB-10A Seversky XP-41	Convair P-66 Vanguard Convair RB-24 Convair RB-24A Convair XB-24B Convair XB-24 Convair YB-24 Convair PR3Y-3 Martin RB-10B	Republic YP-43 Republic P-43D Republic RP-43	Martin XA-22 Republic RP-43		Convair RB-24C
NOTES			Exp. Long Nose.	Inst. dwg for contr. 13831 in R-40543. Contr. 76831 in R-47911. Two speed spline coupling prop. dr. pressure carb.		*Sold as Twin Weap SIC-G.	Torque meter. Sim. -33 with 6:1 cyl. compression ratio for low fuel consumption.	High speed clutch removed for turbo XB-24B had originally -33 but these were changed to 41's.

ENGINE MODEL	Type P & W A Air Force Navy	R-1830 -43, -43A	R-1830 -45	R-1830 -47	R-1830 -49	R-1830 -51	R-1830 -53
SPECIFICATION	Number	A-5119A	PW-6033-D	PW-5054-B	PW-5054-B	PW-5054-B	PW-5054B
RATINGS	Take Off	1200/2700	1050/2700	1200/2700	1200/2700	1200/2700	1200/2700
	Military	1200/2700/25000 with turbo	1050/2700/7700	1200/2700/3700 3700 to 25000 with turbo	1200/2700/25000 with turbo	1200/2700/3700	1200/2700/3700
	Normal	1040/2550/5100 1100/2550/6200 8400 to 65000 with turbo	900/2700/1200	1050/2550/7500 7500 to 25000 with turbo	1050/2550/7500 with turbo	1050/2550/7500	1050/2550/7500
	Max. Cont.						
	Cruise						
FUEL	Grade	100	100	100	91	91	91
CURVES	Spec. Oper.	T-648 T-717, Inst. 1682	T-406	T-407 T-717	T-407 T-717, Inst. 1681	T-407 Inst. 1681	T-407 Inst. 1681
	WEIGHT, DRY	Pounds	1500	1458	1473	1473	1473
PROP. SHAFT	Ratio	16:9	16:9	16:9	*16:9	16:9	3:2
	Spine	50	50	50	50	50	50
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	7.15:1	7.15:1	7.15:1
CARBURETOR	Model	PD-12F2-14 PD-12F5-14	CE-1375DB1	NA-C12D2	PD-12B4	PD12B6	PD12H1-11 PD12H2-11
MAGNETOS	Model	SF-14LC-8, SF-14LU-8 SF-14LU-7	SF-14LN-3	SF-14LN-3	SF-14LN-3	SF14LN3	SF14LN3
INST. DWG.	Number	R-47466	R-33708	R-33708	R-33708	R-33708	R-33708
DIMENSIONS	Diameter	48.56	48.13	48.19	48.13	48.19	48.19
	Length	62.59	61.50	61.15	61.50	61.16	61.11
A.T.C.	Number						
AIRPLANE	Installations	Convair P-47-1 Convair XC-109, C-109 Ford B-24 Liberator AT-22 Liberator B-24D Liberator B-24C (Ford-Douglas) Liberator XB-24F Liberator B-24G (North Amer.) Liberator B-24E (Ford-Douglas) Liberator C-37A Liberator C-87B Liberator F-7 (Ford) Liberator XB-41 Lockheed C-39C	-41 -41 -43A -43 -43 -43 -43 -43 -43 -43 -43A -43 -43	Republic AT-12 Seversky P-35A (Sweden)	Republic RP-43 Republic P-43D (China) with turbo (Sweden)	Lockheed A-28 (414-06) Republic RP-43A, B, C	Convair XA-19C Douglas C-52 Douglas C-52B Douglas C-52C
NOTES		Similar -41 except 16:9 reduction gear. -43A incorporates SF-14LU-8. Buick and Chevrolet built incorporate SF-14LC-8.	*Sold as SC30	*Sold as SC30	*36 of these engines had decoupled nose.	Eng. redesignated by Air Corps -82.	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830
SPECIFICATION	Number	A-5132	K-5098A	-58	A-5133C	-60	-61	-62
RATINGS	Take Off	1200/2700	1200/2700		1200/2700		PW-5063	640/1890
	Military				1250/2700/25000 with turbo		1200/2700/4900	1050/2700/13100
	Normal	1100/2550/6200 without turbo	1050/2550/7500 with turbo	600/2400/S.L.	1100/2550/7200	1100/2550/25000 with turbo	1100/2550/6200	710/2300/2800
	Max. Cont.	1100/2550/25000 with turbo	inc gear, crit. alt.				1000/2550/12500	
	Cruise							
FUEL	Grade	100	100		100		100	
CURVES	Spec. Oper.	T-717	T-531 Inst. 1680	2877	T-530		T-440	Inst. 1730
WEIGHT, DRY	Pounds		1465		1575		1495	2915
PROP. SHAFT	Ratio Spine	16:9 50	16:9 50		16:9 50	3:2	16:9 50	D.D.
CYLINDERS	Comp. Ratio	6.7:1	6.7:1		6.7:1	6.5:1	6.7:1	6:1
IMPELLER	Ratio	7.15:1	7.15:1		7.15:1	11:1	7.15:1, 8.47:1	8:1
CARBURETOR	Model	PD12F2	PD12F4		PD12F3		PD12F2-4	PD12F2-4
MAGNETOS	Model	SF14RN8	SF14LU7		SF14RN8		SF14LN3	SF14LN3
INST. DWG.	Number	R-54051	R-48031		R-57002		R-32547	
DIMENSIONS	Diameter Length	48.19 58.50	48.19 61.78		48.40 60.74		48.19 63.48	
A.T.C.	Number							
AIRPLANE	Installations	Not flown - Shipped to Sacramento Air Depot as School Engines. (Ward-Gosselin 12-3-42)	Republic P-43A1, Z		Convair B-24D		Convair LB-30 Convair Liberator III, Br. 145 spares per comm. spec. assigned -61 by AMC)	Grumman JF-1
NOTES		Change order on contr. from -43 4 engs. Service test - front page.	Decoupled nose		4 engines with improved cooling for test on above plane. Later converted to R-1830-94. Improved accessory sections supercharged cooling fins and muff barrels.		Decoupled nose. Twin Weap 5304-0 Auxiliary Drives.	New flexible mounts.

ENGINE MODEL	Type P & W A Air Force Navy	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830	R-1830
SPECIFICATION	Number	PW-5063	-64	-65, -65A	-66	-67	-68	-69	-70
RATINGS	Take Off	1200/2700	900/2500	1800/2700	1050/2700	1200/2700	1050/2700	1250/2700	
	Military	1200/2700/4900	1050/2700/13100	1200/2700/25000 with turbo		1200/2700/4900 (Available but not guaranteed by spec.)		1250/2700/25000 with turbo	
	Normal	1100/2550/6200	650/2450/8000	1100/2550/6200	900/2550/12000	1040/2550/S.L.	900/2550/12000	1100/2550/7200	
	Max. Cont.	1000/2550/12500		1100/2550/6200 with turbo		1100/2550/6200		1100/2550/25000 with turbo	
	Cruise								
FUEL	Grade	90	87	100	100	100	100	125	
CURVES	Spec. Oper.	T-440 Inst. 1730	T-331 Inst. 1730 T-212 (900 T.O.) T-213 (1000 T.O.) 1295	T-646 Inst. 1682		T-648, T-751F Inst. 1682		T-630	
WEIGHT, DRY	Pounds	1495		1500	1370	1500		1520	
PROP. SHAFT	Ratio Spine	16:9 50	3:2 50	16:9 50	3:2 50	16:9 50	2:1 50	16:9 50	3:2
CYLINDERS	Comp. Ratio	6.7:1	6.5:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.5:1
IMPELLER	Ratio	7.15:1, 8.47:1	12:1	7.15:1	7.15:1	7.15:1	7.15:1	7.15:1	7.25:1
CARBURETOR	Model	PD12F2-3	NA-V9G	CE-1900-CPB3-3, -4, -5	NA-C1202	PD12F2-4 PD12F3-4 SF14LU7	NA-C1228	PD-12F6	
MAGNETOS	Model	SF-14LN3	SB14R1A	SF14LUS, SF14LOS (-65A) SF-14LU7 (-65) R-47468	SF14LN4		SF14LN4	SF14RN8	
INST. DWG.	Number	R-32547	R-16973		R-23453	R-47468	R-18700	R-59701	
DIMENSIONS	Diameter Length	45.19 63.48	49.00 55.50	46.56 62.59	48.00 59.25	48.56 62.59	48.10 59.25	48.40 59.63	
A.T.C.	Number								
AIRPLANE	Installations	Convair P-66	Convair PBY-1 Convair XPBY-1 Convair PBY-2 Douglas TBD-1 Douglas TBD-1A Douglas XTBD-1	Congolidated -85 -65A B-24E B-24B, J, L B-24F XB-240 C-87, A XC-109 C-109 F-7, A Douglas DC-3 (-65) Douglas C47 (-65)	Convair PBY-3	Douglas C-47 Lockheed PBO-1 Lockheed RA-28A	Sikorsky XPBS-1	Douglas XTBD-1	
NOTES		Twin Weap 5304-G Gun Drives.	*Max. T.O. without heavy conn. rods and pistons. Auto. Valve Gear Lubrication Gov. Drive on Nose Section Updraft Carburetor.	*-65 Built by Buick only. -65A Built by Buick & Chevrolet only. Same as -43, -43A except for CE carb. See R-1830-90D.	Auto. Valve Gear Lubrication Down-Draft Carb. Gov. Drive on Nose. Superseded by -84.	*Built by Chevrolet only. Del. for use with 5304-G. Low Blower Ratings only. Same as -43 except for Carb. Setting & operation without Turbo.		None built. Planned as production model for -59 but superseded by -75. Improved: Accessory section supercharger cooling fin & muff arrangement.	

**PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS**

ENGINE MODEL	Type P & W A Air Force Navy	R-1630	R-1630	R-1630	R-1630	R-1630	R-1630	R-1630
SPECIFICATION	Number	72	X-74	*-75	X-76	-76	-76	-83
RATINGS	Take Off	1050/2700	1100 to 1200/2700	1350/2800	1200/2700	1200/2700	1200/2700	1200/2700
	Military			1350/2800/3000 without turbo				
	Normal	9000/2550/12000	1050/2550/7500	1350/2800/3000 with turbo	1000/2550/19000	1100/2550/3500 1050/2550/11000 1000/2550/19000	1100/2550/3500 1050/2550/11000 1000/2550/19000	1050/2550/7500
	Max. Cont.			1100/2550/7500 with turbo				
	Cruise							
FUEL	Grade	100	100	100/130		100	100	100
CURVES	Spec. Oper.		T-590	T-921 Inst. 1718		T-443 T-701, 2, 3	T-701.2 T-703, T-732	T-407 Inst. 1620
WEIGHT, DRY	Pounds	1405	1475	1555		1550	1575	1473
PROP. SHAFT	Ratio Spline	16:9 50	16:9 50	16:9 50	3:2 50	3:2 50	2:1 50	16:9 50
CYLINDERS	Comp. Ratio	6.7:1	7.4:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	8.02:1, 6.43:1, 6.42:1	8.02:1, 6.43:1, 6.42:1	8.02:1, 6.43:1, 6.42:1	7.15:1
CARBURETOR	Model	NAC1202	PD12H1	PD12PB-20		PD12PB-2	PD12E1-2	NAC1202
MAGNETOS	Model	SP14LM4	SP14RB (Nose Mounted)	SP14LAE		SP14LJ6	SP14LJ5	SP14L3
INST. DWG.	Number	R-30000	R-42244	R-90701		R-42222	R-40436	R-35702
DIMENSIONS	Diameter Length	48.00 59.25	48.19 57.94	48.40 59.63		48.06 71.31	48.06 73.39	48.13 61.50
A.T.C.	Number							
AIRPLANE	Installations	Convair XPB2Y-1 Convair PB7-4 Convair XPB7-5A	High Comp. Test Adv. Sp. Control Nose Mags. Four built: 2 Convair, San Diego 1 N.A.F. 1 Spare	Douglas DC-3 Ford YB-24K Ford B-24N Ford XB-24N		Grumman F4F-3 Grumman XF4F-3 Grumman XF4F-4	Convair PB2Y-2	Convair YPB2Y-1 Convair PB7-4
NOTES		Harmonic Balancer type C shaft Ampli- rated Carburetor.	For N.A.F. test in PB7-5's.	Automatic spark advance 25 & 37 deg. Improved Accessory Section Supercharger Cooling Fin & Muff Arrangement. Plain Main Bearings. *Built by Buick only.	Two-Stage, Two-Speed Rigid Prop. Red. Dr. Nitrided Cyl. Barrel.	Two-Stage, Two-Speed Harmonic Balancer type Crankshaft Up- draft Carburetor.	Two-Stage, Two-Speed and Torque Indicator.	

ENGINE MODEL	Type P & W A Air Force Navy	R-1630	R-1630	R-1630	R-1630	R-1630	R-1630	
SPECIFICATION	Number	*-82, -82A	-84	-84A	*-86	-82	-82A	
RATINGS	Take Off	1200/2700	1050/2700	1200/2700 1200/2700/3700	N-5121 (Rev. 1)	1200/2700	Navy Bulletin 327	
	Military							
	Normal	1050/2550/7500	900/2500/12000	1050/2550/7500	1100/2550/3500 1050/2550/11000 1000/2550/19000	1100/2550/3500 1050/2550/11000 1000/1550/19000	1100/2550/6100 1000/2550/12500 1000/2700/14500	
	Max. Cont.							
	Cruise							
FUEL	Grade	100	91	100	100	100	100	
CURVES	Spec. Oper.	T-531 T-717, Inst. 1680	T-789, T-790, T-791	None	T-443 Inst. 1665	T-443 Inst. 1665	T-666 Inst. 1730	
WEIGHT, DRY	Pounds	1465	1423	1438	1560	1595	1495	
PROP. SHAFT	Ratio Spline	16:9 50	3:2 50	16:9 50	3:2 50	16:9 50	16:9 50	
CYLINDERS	Comp. Ratio	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	6.7:1	
IMPELLER	Ratio	7.15:1	7.15:1	7.15:1	8.02:1, 6.43:1 6.42:1	8.02:1, 6.43:1 6.42:1	7.15:1, 8.47:1	
CARBURETOR	Model	PD12H1	NAC1202	PD12PB	PD12E2-2 PD12E4-2	PD12E1-2 PD12E3-2	*PD12F2	
MAGNETOS	Model	SP14LU-6 SP14LN-3 R-36214	SP14LN-4	SP14LN-4	SP14RN-2	SP14RN-2		
INST. DWG.	Number			R-47312	R-47620	R-47580	SP14LN-3	
DIMENSIONS	Diameter Length	48.06 60.26	48.06 61.59	48.06 61.59	48.19 67.44	48.19 67.44	48.19 63.41	
A.T.C.	Number							
AIRPLANE	Installations	Comm. of Australia Boomerang (-82) (82 & A) Convair PB7-5 (82) Convair PB7-5A Douglas R4D-1 (DC-3) -82	Convair PB7-3	Lockheed P50-3	Eastern FM-1 Grumman F4F-3 Grumman F4F-4 (Fold. Wings) Grumman F4F-7	Convair PB2Y-3 Convair PB2Y-3B Convair PB2Y-3R Convair PB2Y-5 Convair PB7-3 Douglas DC-3 Douglas C-47		Grumman F4F-3A Grumman F4F-4A Grumman F4F-6 Grumman G-36R
NOTES		Navy changed -82 to decoupled nose re- designated to -82A. *82 also sold to Comm.	17 engines Supercedes -66-	Carburetor changed to PD12H1 in field. 6 engines. Carburetor replaced with PD12H1 in field with -82 setting.	Two-Stage, Two-Speed Nose Mounted Mags. Rigid Propeller Red. Drive Chrome-Moly Cylinder Barrels. *Also sold to Comm.	*With jet assistance. -82 similar -85 except 16:9	-82 with all clutches wired to be incorporative. Ef- fect by Navy in field.	*FF-12PB-6 (100 Octane). Superseded by -12 on all Navy F4F-3A. PD-12PB-12 (100 Octane) Navy F4F-3A. PD-12PB-3 (90 Octane) F4F-3A. PD-12PB-13 (100 Octane) F4F-3A. PD-12PB-17 (100 Octane) setting changed in service from -12 on all British F4F-3A Martlet II planes. Navy approved harness.

