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WASP JR. & R-985
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	Wasp Junior T1A	Wasp Junior S1A	Wasp Junior S2A	Wasp Junior S3A	Wasp Junior T3A	Wasp Junior T8
SPECIFICATION	Number	PW-401	PW-402	PW-403	PW-404	PW-404	PW-406
RATINGS	Take Off	300/2000	400/2300	375/2300	420/2200	420/2200	440/2300
	Military						
	Normal	300/2000/S.L.	400/2300/S.L.	375/2300/7500	420/2200/S.L.	400/2200/S.L.	420/2200/S.L.
	Max. Cont.						
	Cruise						
FUEL	Grade	**73	*80	87	83	80	60
CURVES	Spec. Oper.	801		809		1850	T-311 2441
	Weight, Dry	Pounds	565	575	565	575	645
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	5:1	5:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	7:1	6:1	10:1	6:1	6:1	6:1
CARBURETOR	Model	NA-R9A Scintilla	Optional	NA-R9A Scintilla	Optional	NA-R9A Scintilla	NA-R9B SB9R
MAGNETOS	Model						
INST. DWG.	Number	R-9643		R-9643	R-9643	R-9643	R-13776
DIMENSIONS	Diameter	45.75	45.75	45.75	45.75	45.75	45.75
	Length	41.06	41.06	41.09	41.06	41.09	41.59
A.T.C.	Number	39	66			95	85
AIRPLANE	Installations	Bellanca 300W Boeing 4D Boeing 4DM Boeing 4DM-1 Convair BT-7 Convair Y1PT-12 Convair 21C Douglas C-26 Douglas Dolphin 3	Fairchild 51A Lockheed Orion 2D Sukorsky C-28 Sukorsky E-39B Spartan C5-301 Stinson L-12A Stinson W	Boeing 40X Sukorsky E-39C		Bellanca CH-40CW Boeing B1 Sukorsky E-39C-SP	Koolhoven FK-51 Waco B3MD
NOTES		*Also purchased by Air Force and Navy. **Certificated for 68 fuel.		*Certificated for 87 fuel and 73 fuel is with throttle stops.		None manufactured.	

RESERVED

ENGINE MODEL	Type P & W A Air Force Navy	Wasp Junior T1B	Wasp Junior T1B2	Wasp Junior T1B5	Wasp Junior T1B4	Wasp Junior T82	Wasp Junior T83	Wasp Junior SB
SPECIFICATION	Number	PWA-405	PW-2025	202B	2037	PW-2024	PW-2032	PW-407-C
RATINGS	Take Off	400/2300	450/2300	450/2300	450/2300	440/2300	440/2300	450/2300
	Military							450/2300/3500
	Normal	320/2000/S.L.	450/2300/S.L.	450/2300/S.L.	450/2300/S.L.	420/2200/S.L.	420/2200/S.L.	400/2200/5000
	Max. Cont.							
	Cruise							
FUEL	Grade	80 (400hp); 73 (320 hp max.)	67	*91/96 T-570 T-608	91/96 T-570 T-606	80 T-551-C 2441	80 T-654-C 2441	80 (400 hp max.); 67 (450 hp); T-215 2442
CURVES	Spec. Oper.	2440	T-552					
	Weight, Dry	Pounds	645	665	662	684	665	645
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	5:1	6:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	8:1	10:1	10:1	10:1	8:1	8:1	10:1
CARBURETOR	Model	NA-R9B	NA-R9B-20	NA-R9B	NA-R9B	NA-R9B	NA-R9B	NA-R9B-13 ^A , -19 NA-R9C2-5, -3 ^D SB9R
MAGNETOS	Model	SB9R	SB9R	SB9RU-3	SB9RU-3	SB9R	SE9R	SB9R
INST. DWG.	Number	R-13776	R-40251	41337	None	R-40251	41337	R-13776
DIMENSIONS	Diameter	45.75	45.88	46.10	46.10	46.62	46.19	46.75
	Length	42.125	42.38	42.43	42.69	42.36	42.36	41.59
A.T.C.	Number	113		123		85		123
AIRPLANE	Installations			Boeing A75H1				Barkley-Grow TBP-1 ^A Beech SB-1 Beech AT-11 Beech D17S Beech 185 ^A Beech 185 ^B Beech C185 ^A Fairchild S-60 Grumman G21 ^A & G21A ^A Howard DGA-11 Koolhoven FK-50, -51 Lockheed Model 10A, 10A-1 12, 12A-1 ^A Spartan 7W ^A Stinson UC-81E Stinson XC-81D, P ^A Waco UC-72 ^D
NOTES				*Certificated for 87 fuel.	Vertical installation None manufactured.		None manufactured.	

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	Wasp Junior S1B	Wasp Junior S2B	Wasp Junior *S2	Wasp Junior S3B	Wasp Junior S4	Wasp Junior B4	Wasp Junior B5
SPECIFICATION	Number		PW-2020	PW-2023	2038		2039	2040
RATINGS	Take Off		375/2100	450/2300	450/2300		450/2300	450/2300
	Military			450/2300/3500	450/2300/2300			
	Normal		350/2000/7200	400/2200/5000	400/2200/5000		450/2300/2300	450/2300/2300
	Max. Cont.							
	Cruise							
FUEL	Grade		92	87 (450 hpl; 60 (400 hp max.)	*91/96		*80/87	*80/87
CURVES	Spec. Oper.	2889	T-516	T-550 2442	T-644 2442	7206	T-966 Inst. 7241	T-1002 Inst. 7241
WEIGHT, DRY	Pounds		645	665	682		684	682
PROP. SHAFT	Ratio Spline		D.D. 30	D.D. 30	D.D. 30		D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio		6:1	6:1	6:1		6:1	6:1
IMPELLER	Ratio		12:1	10:1	10:1		10:1	10:1
CARBURETOR	Model		NA-R9B	NA-R9B-19 ^A , NA-R9C2-3, -5	NA-R9B		NA-R9B	NA-R9B
MAGNETOS	Model		SB9R	SB9R	SB9RU-3		SB9RN-4	SB9RN-4
INST. DWG.	Number		R-13778	R-40251	41337		98101	41337
DIMENSIONS	Diameter		45.75	46.06	46.10		46.10	46.10
	Length		41.56	42.38	42.43		47.69	42.43
A.T.C.	Number			123	123	123		123
AIRPLANE	Installations			Grumman JRF-2, 3 Grumman G21A, A, O21 Sikorsky XSS-1 Sikorsky S-39 Waco SR8	Beech D18S Fairchild F-11X (Can.) Grumman G-21A Howard DGA-15P		Bell Model 42 Sikorsky H-5F, G, H Sikorsky HO3S-1 Bendix Model J Sikorsky S-51, A	Beech D18S Spartan Model 12A
NOTES		None Manufactured.		*Also purchased by Army and Navy.	*Certificated for 87 fuel for 450 T.O.	4 converted ANS Carb. Changed from WAP-98-10 to WAP-98-19 designa- tion changed to B4. Spare engine for Company Sikorsky S-51 Helicopter Engine #27187	Vertical installation *If unavailable, 91/98 grade must be used.	*If unavailable, 91/98 grade must be used.

ENGINE MODEL	Type P & W A Air Force Navy	Wasp Junior SC-6
SPECIFICATION	Number	PW-2006-A
RATINGS	Take Off	600/2650 (100 fuel)
	Military	575/2350 (67 fuel)
	Normal	525/2700/9500 (67 fuel)
	Max. Cont.	
	Cruise	
FUEL	Grade	See above
CURVES	Spec. Oper.	T-92
WEIGHT, DRY	Pounds	664
PROP. SHAFT	Ratio Spline	3:2 40
CYLINDERS	Comp. Ratio	6.7:1
IMPELLER	Ratio	10:1
CARBURETOR	Model	NA-Y9H
MAGNETOS	Model	SB9R
INST. DWG.	Number	R-26066
DIMENSIONS	Diameter	46.75
	Length	46.469
A.T.C.	Number	204
AIRPLANE	Installations	
NOTES		Ratings conform to A.T.C. #341 last engine shipped.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-985	R-985	R-985	R-985	R-985	R-985	R-985
		-1	-3	-5	-7	-9	-11	-11A
SPECIFICATION	Number						2001-2	
RATINGS	Take Off	300/2200	420/2200	350/2100	335/2100	400/2200	440/2300	
	Military					400/2100/S.L.		
	Normal	300/2000/S.L.	420/2200/S.L.	350/2100/S.L.	335/2100/S.L.		440/2200/S.L.	
	Max. Cont.							
	Cruise							
FUEL	Grade	73	75	73		60		
CURVES	Spec. Oper.							
WEIGHT, DRY	Pounds	565	565			645		
PROP. SHAFT	Ratio	D.D.	D.D.	D.D.	3:2	D.D.	D.D.	
	Spline	30	30	30		30	30	
CYLINDERS	Comp. Ratio	5:1	6:1	6:1	5:1	6:1	6:1	
IMPELLER	Ratio	7:1	10:1	7:1	7:1	6:1	8:1	
CARBURETOR	Model	NA-R9A		NA-R9A		NA-R9B	NA-R9A	
MAGNETOS	Model					SB9R		
INST. DWG.	Number	E-7506				R-10557	R-14669	
DIMENSIONS	Diameter	45.75				45.75		
	Length	41.09				41.39		
A.T.C.	Number							
AIRPLANE	Installations	Boeing (Steerman) BT-5 Douglas OA-4, B, C Convair BT-7, Y1PT-12 Douglas YOA-5 Curtiss XP-21 Douglas C-26 Douglas OA-4 Seversky BT-8 Sikorsky C-28 Stinson L-12A, UC-81, XC-81D				Douglas OA-4A, B, C Douglas YOA-5 Douglas C-26B	Seversky BT-8	No. American BT-14A
NOTES		*Sold as Wasp Jr. A	*Sold as Wasp Jr. SA Similar -1 except forged pistons & comp.	None manufactured. Similar -1 except comp. & ratings.	None manufactured. Similar -1 except 3:2 & ratings.	Similar -5 except 6:1 imp. minor internal changes.	Similar -9 except ratings & prop. control	-11 engines intended for BT-14, modified by Army to resemble -25 instal- lation features to complet BT-14 contract.

ENGINE MODEL	Type P & W A Air Force Navy	R-985	R-985	R-985	R-985	R-985	R-985	R-985
		-13	-15	-17	-19	-21	-23	-25
SPECIFICATION	Number			2015	2015	A-2017	A-2016	A-2019
RATINGS	Take Off	450/2300	600/2850	450/2300	375/2100	440/2300	450/2300	450/2300
	Military	450/2300/3500					450/2300/3500	
	Normal	400/2200/5000	525/2700/10000	400/2200/5000	350/2000/7200	420/2200/S.L.	400/2200/5000	450/2300/S.L.
	Max. Cont.							
	Cruise							
FUEL	Grade	87	91	92	92	92	100	92
CURVES	Spec. Oper.			T-215 2442	T-516	2441	T-477	T-476 T-546
WEIGHT, DRY	Pounds		645	645	645	745	650	665
PROP. SHAFT	Ratio	D.D.	3:2	D.D.	D.D.	D.D.	D.D.	D.D.
	Spline	30	40	30	30	30	30	30
CYLINDERS	Comp. Ratio	6:1	6.67:1	6:1	6:1	5:1	6:1	6:1
IMPELLER	Ratio	10:1		10:1	10:1	6:1	10:1	10:1
CARBURETOR	Model	NA-R9B NA-R9C2		NA-R9B-13	NA-R9B-16	NA-R9B	NA-R9B-16	NA-R9B-16
MAGNETOS	Model			SB9R	SB9R	SB9R	SB9R	SB9R
INST. DWG.	Number	R-22750		R-13776	R-13776	R-13776	R-33973	R-37069
DIMENSIONS	Diameter		56.25	45.75	45.75	45.75	45.75	45.75
	Length		45.75	42.36	42.36	42.36	42.36	42.36
A.T.C.	Number							
AIRPLANE	Installations	Lockheed Y1C-36 Lockheed UC-36 Lockheed Y1C-37 Lockheed UC-37		Beech C-45 Beech JRB-1 Beech YC-43, UC-43B Grumman CA-9 Lockheed UC-40A Lockheed UC-40B Lockheed UC-40C Lockheed UC-40D NAA BT-14	Beech F-2	Flett-LePage XR-1, -1A Ryan YO-51 Vultee BT-13	Beech JRB-1 Beech UC-45 Howard UC-70 Howard UC-70C Howard UC-70C, D Spartan UC-71	Air Research XBT-11 Beech AT-7 Beech AT-7B Fleetwing XBT-12 No. American BT-14, A Vidal Research XBT-16 Vultee BT-13
NOTES		Similar -11 except 10:1 & ratings	None manufactured. 8" impeller first "C" series.	Similar -13 except/ with dampers, auto. valve Lubrication.	12:1 Imp. Ratio changed to 10:1 and indicated on nose section with ratings like -17 except carb. setting.	Similar -17 except ratings & special breather conn.	Similar -17 except special carb. adapter & super. ratio.	Similar -17 except screwed on rocker box covers, splined vac. & fuel pump driver, new M.R. design & ratings.

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-985	R-985	R-985	R-985	R-985	R-985
		-27	-33	-35	-39	-39A	-40
SPECIFICATION	Number	A-2019					
RATINGS	Take Off	450/2300		400/2300			335/2100
	Military						
	Normal	450/2300/S.L.		400/2200/S.L.			335/2100/S.L.
	Max. Cont.						
FUEL	Grade	92		80			80
	CURVES	Spec. Oper.	T-476				
WEIGHT, DRY	Pounds	665					
PROP. SHAFT	Ratio Spline	D.D. 30		D.D. 30			3:2
CYLINDERS	Comp. Ratio	6:1		6:1			5:1
IMPELLER	Ratio	10:1		6:1			7:1
CARBURETOR	Model	NA-R9B-17		NA-R9A			
MAGNETOS	Model	SP9R					
INST. DWG.	Number	R-13776					
DIMENSIONS	Diameter Length	45.75 42.36					
A.T.C.	Number						
AIRPLANE	Installations	No. American BT-13, A Vultee BT-13	Howard UC-70 Spartan UC-71 Waco UC-72	B/J Aircraft QJ-2	Beech C-45G Beech C-45H	Beech C-45G Beech C-45H	B/J Aircraft QJ-2
NOTES		Similar -25 except tongue vac. & fuel pump drives & no new N.R. design	*Sold as Wasp Jr. SB		Converted AN-1 with 2:1 gen. dr. for 100 amp. gen.	Converted AN-3 with 2:1 gen. dr. for 100 amp. gen.	None Manufactured.

ENGINE MODEL	Type P & W A Air Force Navy	R-985	R-985	R-985	R-985	R-985
		-48	-50	AN-1A, AN-3A	*AN-1, AN-3 *AN-1, AN-3	AN-2, AN-8
SPECIFICATION	Number	2022	2022		AN-2035 (Rev. 3)	AN-2035 (Rev. 3)
RATINGS	Take Off	450/2300	450/2300		450/2300	450/2300
	Military					
	Normal	400/2200/5000	400/2200/5000		450/2300/S.L. spec. rating **400/2200/5000 adapted continuous rating	400/2200/5000
	Max. Cont.					
FUEL	Grade	2	92		91	91
	CURVES	Spec. Oper.	T-543		T-662 T-663	T-669 T-667
WEIGHT, DRY	Pounds		664		674 HPG. 662 alum.	660 mag. 666 alum.
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30		D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	6:1	6:1		6:1	6:1
IMPELLER	Ratio	10:1	10:1		10:1	10:1
CARBURETOR	Model	NA-R9C2-4	NA-R9B-19A NA-R9C2-4 ^B , -6 ^C		NA-R9B-16	NA-R9C2-4
MAGNETOS	Model	SB9R	SB9R		SB9R(U)-3	SB9R(U)-3
INST. DWG.	Number	R-40514	R-39907		R-47106	R-47572
DIMENSIONS	Diameter Length	45.75 41.59	45.69 41.65		46.25 43.05	46.25 43.06
A.T.C.	Number					
AIRPLANE	Installations	Beech GB-1 Beech JRB-2 Grumman JRF-1, -1A Grumman XJ3F-1 Grumman OA-13A Howard GH-1, -2, -3 Lockheed XR20-1 Lockheed JO-1, JO-2 Vought OS2U-1 Vought XO52U-1	Beech GB-1, -2 ^A Beech JRB-1, -2 Grumman JRF-4 ^C Howard GH-1, -2, -3 Lockheed JO-2 ^B , -1, -3 Lockheed R30-2 Lockheed UC-36A Vought OS2U-2 ^B		Avian Max. Major M-1931 Pittsford 38-2 AN-1 Pittsford R-25 AN-1 Beech 72A-8 AN-1 Beech 98B-1 AN-1, -J Beech 98B-2 AN-1, -J Beech 98B-3C AN-1 Beech 98B-5, 6 AN-1, -J Beech AT-7 AN-1 Beech AT-7A, B AN-1 Beech AT-7C AN-1, -3 Beech AT-11 AN-3 Beech AT-11A AN-1 Beech G175 AN-1, -3 Beech UC-43 AN-1 Beech UC-43B AN-1 Beech C-45A AN-1 Beech C-45B AN-1 Beech C-45C AN-1 Delmar Beaver AN-1 Grumman G-21A AN-1, -3 Bell XV-3 AN-1 Beech C-45G, H AN-1, -3 Beech C-45T AN-1 Beech C-45E AN-1 Beech C-45F 198-4 AB-1, -3 Boeing XBT-17 AN-1 Convair CQ-3, XCQ-1 AN-1 Convair Valiant SNV-2 AN-1, -3 Convair Valiant BT-13B AN-1, -3 Convair Valiant BT-13A AN-1, -3 Flaetings BT-12 AN-1 Convair SNV-1 AN-1 Fletcher PO-11, YOD-11A AN-1 Grumman GA-13 AN-1 Lockheed UC-40D AN-1, -3 Platt Le Page XP-1A AN-1 Sukorsky VS-5 AN-1 Sukorsky XE-5 AN-1	N. A. F. OS2N (AN-2, -B) Vought OS2U-2 (AN-2) Vought OS2U-3 (AN-2, -C)
NOTES			Provisions for the Incomp. Comp. Full Pres. Valve Lub., Screwed on Rocker Box Covers.	Similar R-985 AN-1-3 except AF converted gen. dr. with 2:1 ratio to drive 100 amp. gen.	Similar -25 except Bosch mag. & full press. internal valve oiling. AN-3 like AN-1 except Aluminum Cases. *AN-1 also sold commercially AN-1, -3 also built by Jacobs **From AMC Eng. Desig. Book AN-1, -3 with 3 tooth Starter Jaw.	AN-8 like AN-2 except Aluminum Cases. AN-2 like AN-1 except NAR-9C2-4 Carb. Twelve-tooth starter jaw Special circuits on defectors R.H. type gas synchronizer

PRATT & WHITNEY AIRCRAFT ENGINES
MODEL DESIGNATIONS and CHARACTERISTICS

ENGINE MODEL	Type P & W A Air Force Navy	R-985	R-985	R-985	R-985	R-985	R-985
		*AN-4, AN-10	AN-5	*AN-6, *AN-12	*AN-6B, *AN-12B	AN-7 AN-7	*AN-14B *AN-14B
SPECIFICATION	Number	AN-2035 (Rev. 3)	AN-2036 (Rev. 1)	AN-2035 (Rev. 3)	AN-2035 (Rev. 3)	AN-2030 (Rev. 1)	AN-2035 (Rev. 3)
RATINGS	Take Off	450/2300	450/2300	450/2300	450/2300	450/2300	450/2300
	Military						
	Normal	400/2200/5000	450/2300/S.L.	400/2200/5000	400/2200/5000	450/2300/S.L.	400/2200/5000
	Max. Cont.						
	Cruise						
FUEL	Grade	91	91	91	91	91	91
CURVES	Spec. Oper.	T-668 T-667	T-895 T-894	T-668 T-667	T-666 T-667	T-895 T-894	T-668 T-667
WEIGHT, DRY	Pounds	674 mag. 682 alum.	684	680 mag. 686 alum.	660 mag. 686 alum.	692	682 mag. 690 alum.
PROP. SHAFT	Ratio Spline	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30	D.D. 30
CYLINDERS	Comp. Ratio	6:1	6:1	6:1	6:1	6:1	6:1
IMPELLER	Ratio	10:1	10:1	10:1	10:1	10:1	10:1
CARBURETOR	Model	NA-R9B-19	NA-R9B-16	NA-R9C2-6	NA-R9C2-6	NA-R9E-18	NA-R9B-19
MAGNETOS	Model	SB9R(U)-3	SB9R(U)-3	SB9R(U)-3	SB9R(U)-3	SB9R(U)-3	SB9R(U)-3
INST. DWG.	Number	R-50895	R-76301	R-50896	R-54349	R-76301	R-77701
DIMENSIONS	Diameter Length	46.25 43.06	46.25 45.00	46.25 43.06	46.25 43.06	46.25 49.00	46.25 43.06
A.T.C.	Number						
AIRPLANE	Installations	Beech JRB-1, AN-4 Beech JRB-4 Beech C-45F Beech JRE-3 Beech Q175(AN-4)	Bristol MK.171 Sikorsky HS0,H Sikorsky S-51 Sikorsky HO2S-1 Sikorsky HO2S-1 Sikorsky YR-5A Sikorsky R-5D Sikorsky XR-5A, R-5A All R-5A's from No. 24 up are R-5D's. Westland-Sikorsky S-51	Avro Anson V(Br) Grumman JRF-5 (G2)-A Howard HK-1, DGA-15P	Airspeed Oxford V (Br) (AN-6B) DeHav. DHC-2(AN-6B) Grumman JRF-6B		Avro Anson V Beech E125 DeHav. Beaver McDonnell XNH-1 McDonnell XND-1 (R-1)
NOTES		AN-4 like AN-1 except NAR-9B-19 carb. Twelve-tooth starter jaw AN-10 like AN-4 except aluminum cases. *AN-4 also sold commercially.	Vertical installation. Magnesium crankcases.	AN-6 like AN-1 except NAR-9C2-6 Carb. 12 Tooth starter jaw AN-12 like AN-6 except Aluminum Cases *Also sold commercially. AN-5 also built by Jacobs	AN-6B like AN-1 except NAR-9C2-6 Carb. AN-12B like AN-6B except Aluminum Cases. *AN-6B also sold commercially. Also built by Jacobs.	Like AN-5 except Aluminum Cases. None manufactured.	Some AF-14B with 2:1 dr. for 100 amp generator. Like AN-1 except NAR-9B-19 Carb. Hydromatic C'shaft Optional Material Cases. *Also sold commercially. Also built by Jacobs.

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							