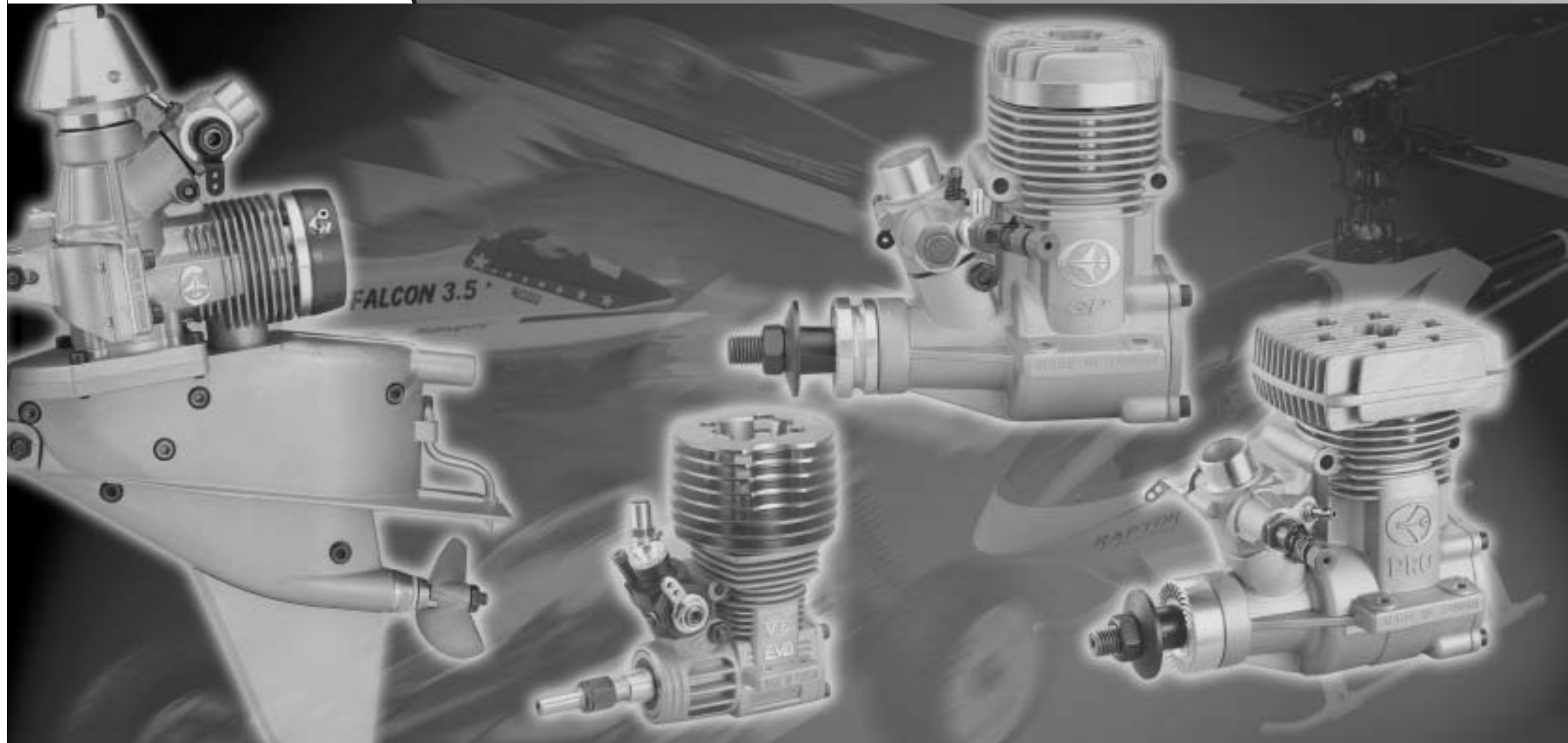




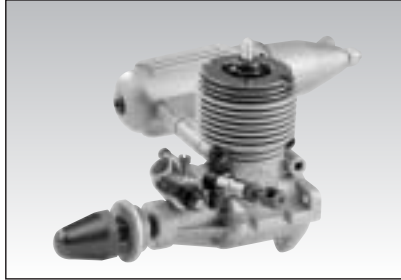
PARTS CATALOG FOR ENGINE SERIES



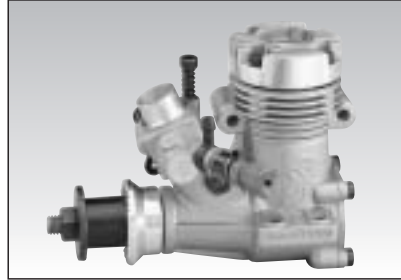
Manufactured by **THUNDER TIGER CORPORATION**
Distributed in North America by **ACE HOBBY DISTRIBUTORS, INC.**

<http://www.thundertiger.com>
<http://www.acehobby.com>

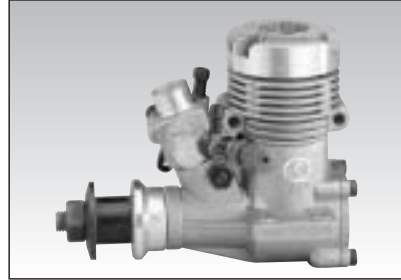
Two-Stroke
Aircraft Engine
GP Series



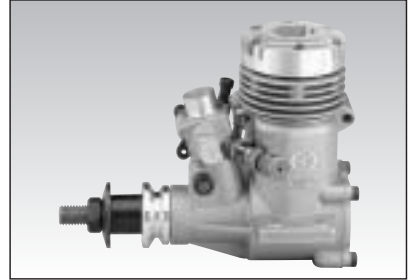
GP-07 / 9007



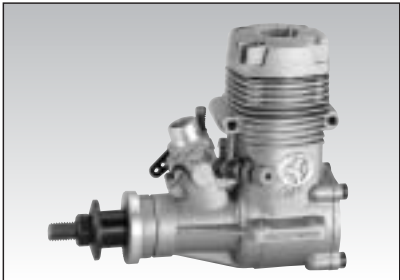
GP-10 / 9010



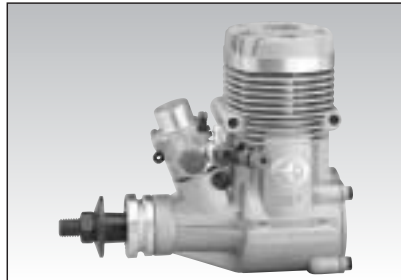
GP-15 / 9011



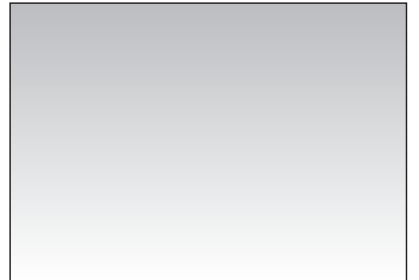
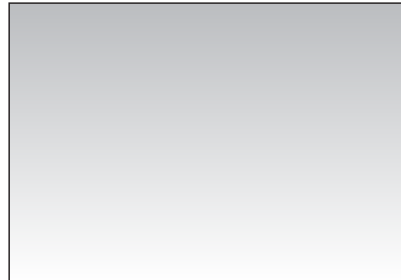
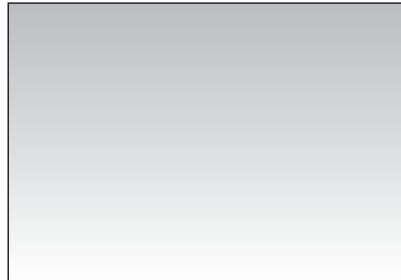
GP-25 / 9020



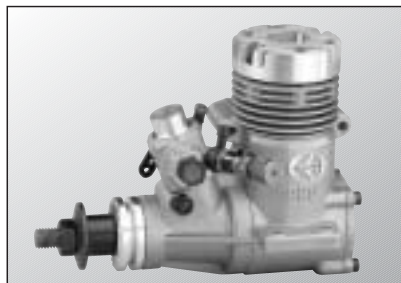
GP-42 / 9041



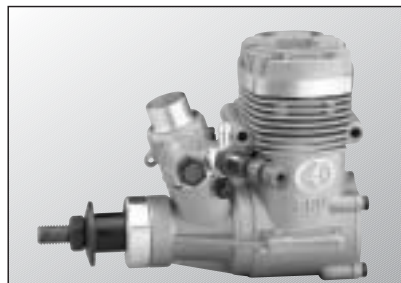
GP-61 / 9060



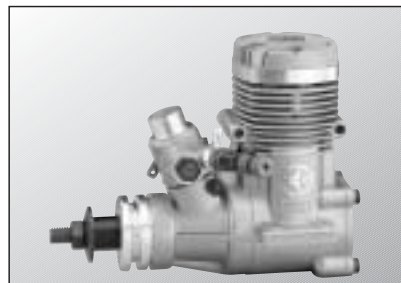
Two-Stroke
Aircraft Engine
PRO Series



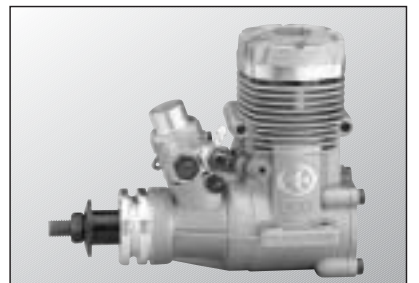
PRO-25 / 9120



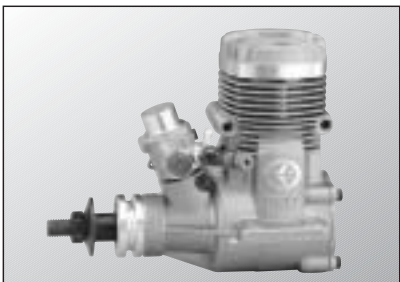
PRO-36 / 9130



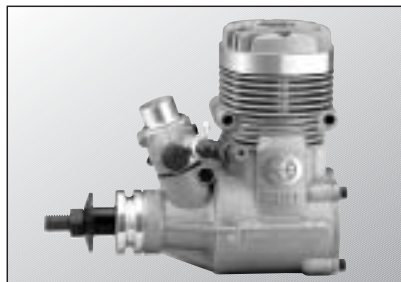
PRO-40 / 9140



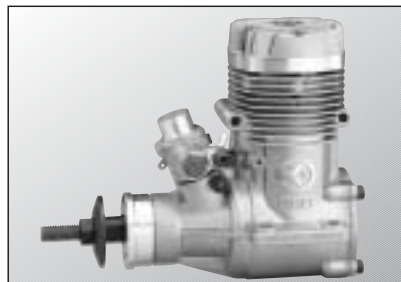
PRO-46 / 9141



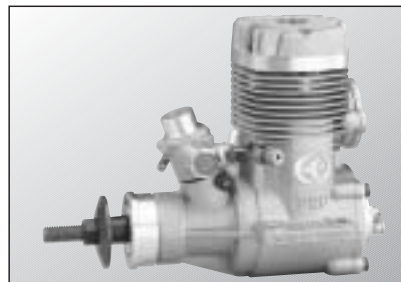
PRO-61 / 9160



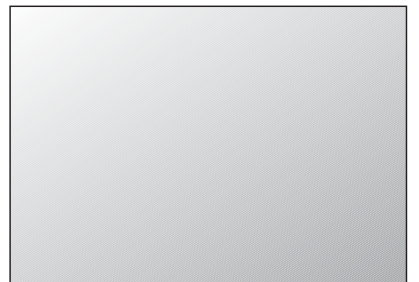
PRO-90 / 9190

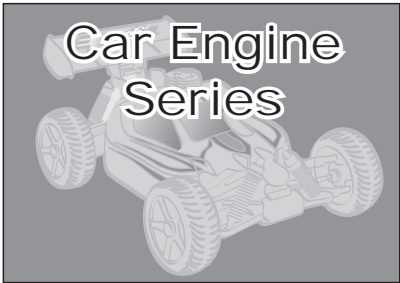


PRO-120 / 9195

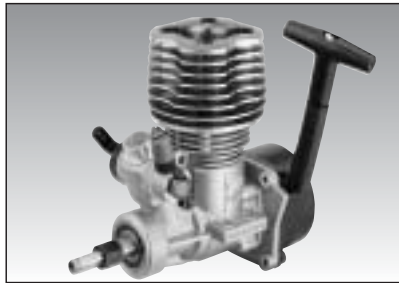


PRO-120-RP / 9196





PRO-12BZ(P) / 9431



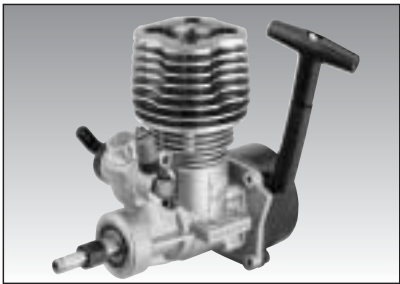
PRO-12BZX(P) / 9433



PRO-12BX(S) / 9437



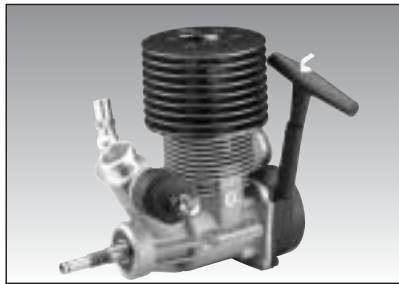
PRO-15BZ(P) / 9432



PRO-15BZX(P) / 9434



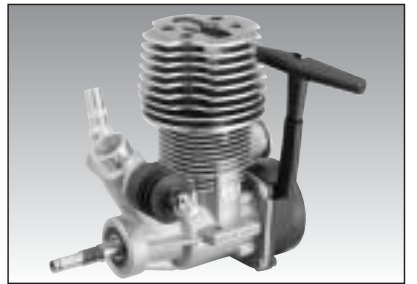
PRO-15BXS / 9414



PRO-21BX-RS / 9429



PRO-21B-R(P) / 9435



PRO-21BX-R(P) / 9436



PRO-21BX-RP / 9441



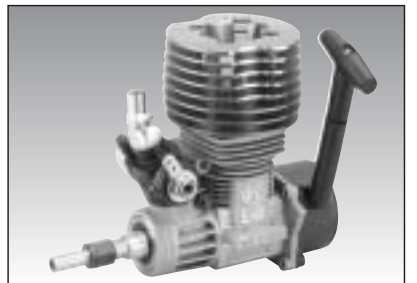
PRO-50BX(R) / 9445



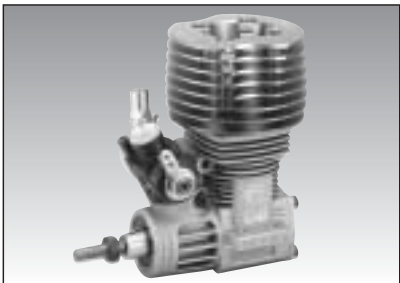
PRO-70BX(R) / 9447



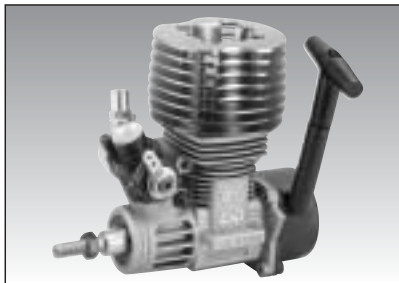
EVO-12 / 9460



EVO-12X / 9461



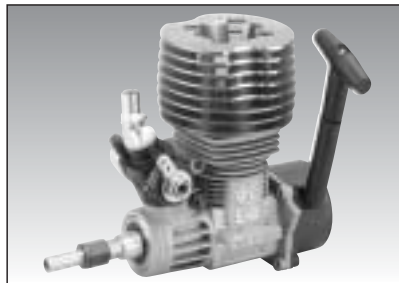
EVO-12(TH) / 9464



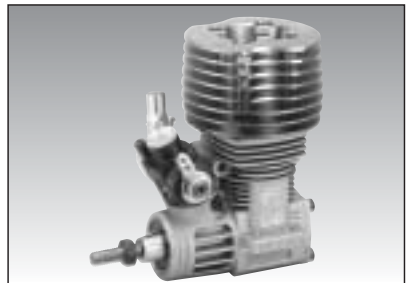
EVO-12X(TH) / 9465



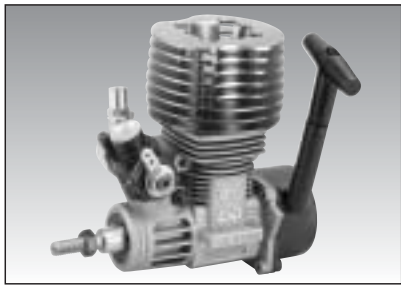
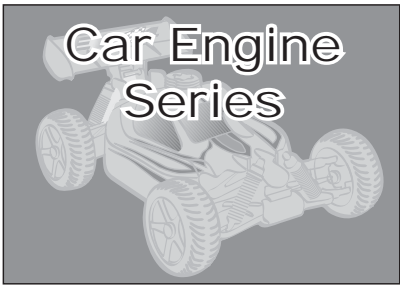
EVO-15 / 9462



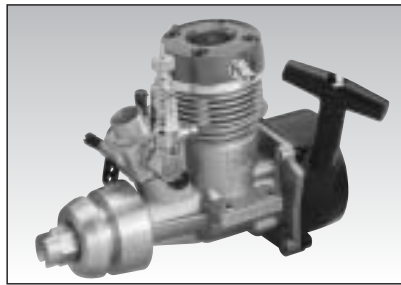
EVO-15X / 9463



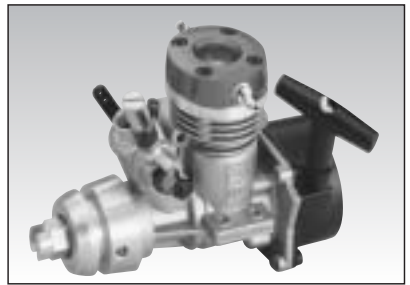
EVO-15(TH) / 9466



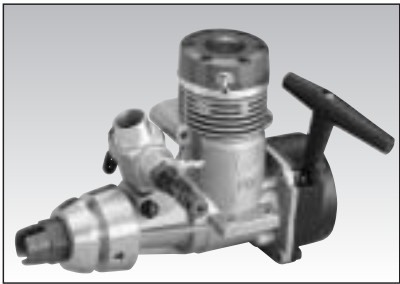
EVO-15X(TH) / 9467



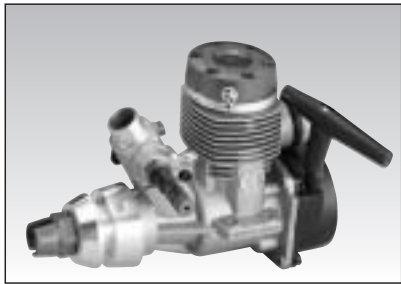
GP-15MX/ 9501



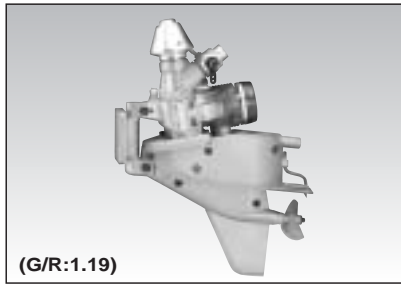
PRO-15MX/ 9551



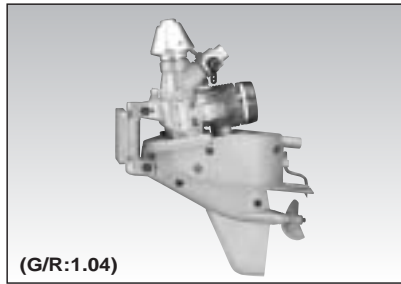
PRO-21MX/ 9561



PRO-21MX-R / 9566



PRO-21M-OB / 9567



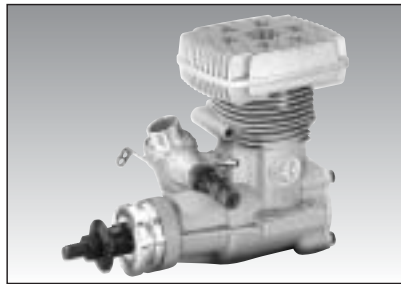
PRO-21M-OB / 9568



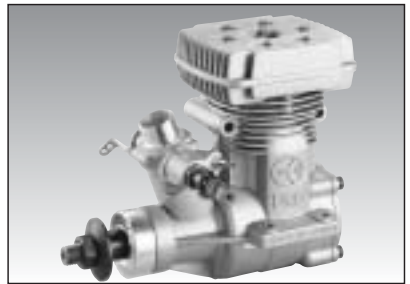
*PRO-36H / 9670



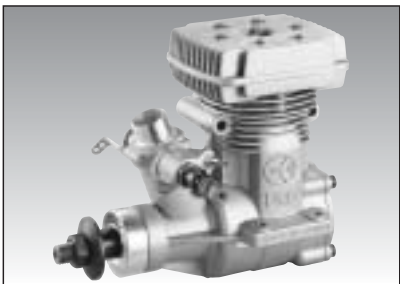
PRO-39H(R) / 9604



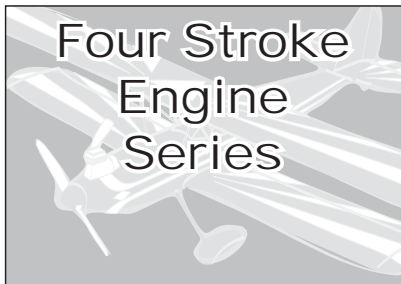
PRO-50H(R) / 9605



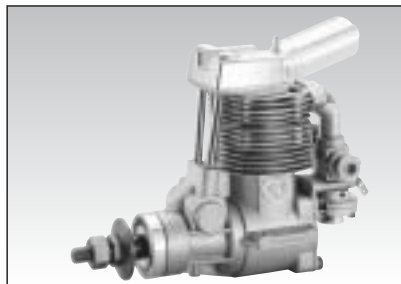
PRO-70H(R) / 9607



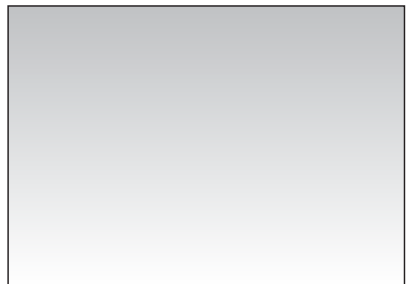
PRO-90H(R) / 9609



F-54S / 9800



F-91S / 9801



* Engine discontinued

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ENGINE SPECIFICATION LIST

TWO STROKE AIRCRAFT ENGINE

ITEMS	No.	DIPLACEMENT (cc / cu.in)	BORE (mm / in.)	STROKE (mm / in.)	PRACTICAL RPM	OUTPUT (BHP / RPM)	WEIGHT(w/muffler) (g / oz)	NOTE
GP-07	9007	1.13 / 0.069	12 / 0.472	10 / 0.394	3000~18000	0.19 / 17000	94.4 / 3.33	
GP-10	9010	1.75 / 0.107	13.4 / 0.528	12.4 / 0.488	2500~18000	0.27 / 17000	161.9 / 5.71	
GP-15	9011	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	2500~18000	0.40 / 17000	179.7 / 6.34	
GP-25	9020	4.07 / 0.248	18 / 0.709	16 / 0.630	2500~16000	0.60 / 15000	241.8 / 8.53	
GP-42	9041	6.90 / 0.421	21.5 / 0.846	19 / 0.748	2000~15000	1.10 / 14000	357.2 / 12.60	
GP-61	9060	10.58 / 0.646	24.2 / 0.953	23 / 0.906	2000~16000	2.00 / 15000	693.4 / 24.46	
PRO-25	9120	4.07 / 0.248	18 / 0.709	16 / 0.630	2500~18000	0.75 / 17000	285.8 / 10.08	
PRO-36	9130	5.98 / 0.365	20.8 / 0.819	17.6 / 0.693	2000~17000	1.10 / 16000	313.6 / 11.06	
PRO-40	9140	6.52 / 0.398	20.9 / 0.823	19 / 0.748	2000~17000	1.30 / 16000	454.5 / 16.03	
PRO-46	9141	7.47 / 0.456	21.8 / 0.858	20 / 0.787	2000~17000	1.60 / 16000	448.5 / 15.82	
PRO-61	9160	9.98 / 0.609	23.5 / 0.925	23 / 0.906	2000~17000	1.85 / 16000	758.4 / 26.75	
PRO-90	9190	14.78 / 0.902	28 / 1.102	24 / 0.945	2000~16000	2.75 / 15000	828.0 / 29.20	
PRO-120	9195	20.76 / 1.267	31 / 1.220	27.5 / 1.083	1800~15000	3.2 / 14000	975 / 34.39	
PRO-120-RP	9196	20.76 / 1.267	31 / 1.220	27.5 / 1.083	1800~15000	3.5 / 14000	(*1)780 / 27.51	

(*1)wo/muffler

TWO STROKE HELICOPTER ENGINE

ITEMS	No.	DIPLACEMENT (cc / cu.in)	BORE (mm / in.)	STROKE (mm / in.)	PRACTICAL RPM	OUTPUT (BHP / RPM)	WEIGHT(wo/muffler) (g / oz)	NOTE
*PRO-36H	9670	5.98 / 0.365	20.8 / 0.819	17.6 / 0.693	2000~17000	1.10 / 16000	283.8 / 10.01	
PRO-39H(R)	9604	6.45 / 0.394	21.6 / 0.850	17.6 / 0.693	2000~17000	1.35 / 16000	290 / 10.23	
PRO-50H(R)	9605	8.19 / 0.500	22.5 / 0.886	20.6 / 0.811	2000~17000	1.8 / 16000	405 / 14.28	
PRO-70H(R)	9607	11.49 / 0.701	25 / 0.984	23.4 / 0.921	2000~17000	2.5 / 16000	570 / 20.10	
PRO-90H(R)	9609	14.78 / 0.902	28 / 1.102	24 / 0.945	2000~16000	2.75 / 15000	575 / 20.28	

* Engine discontinued

FOUR STROKE AIRCRAFT ENGINE

ITEMS	No.	DIPLACEMENT (cc / cu.in)	BORE (mm / in.)	STROKE (mm / in.)	PRACTICAL RPM	OUTPUT (BHP / RPM)	WEIGHT(w/muffler) (g / oz)	NOTE
F-54S	9800	8.87 / 0.541	24 / 0.945	19.6 / 0.772	2200~13000	0.8 / 12000	419.6 / 14.80	
F-91S	9801	14.97 / 0.914	28.3 / 1.114	23.8 / 0.937	2000~12000	1.6 / 11000	742.8 / 26.20	

ENGINE SPECIFICATION LIST

TWO STROKE CAR ENGINE

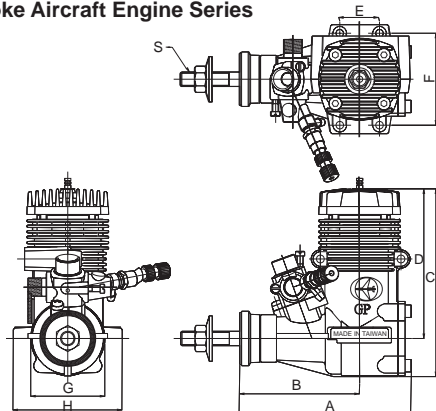
ITEMS	No.	DIPLACEMENT (cc / cu.in)	BORE (mm / in.)	STROKE (mm / in.)	PRACTICAL RPM	OUTPUT (BHP / RPM)	WEIGHT(wo/muffler) (g / oz)	NOTE
PRO-12BZ(P)	9431	2.11 / 0.129	14 / 0.551	13.7 / 0.539	3000~30000	0.56 / 29000	232 / 8.18	
PRO-12BZX(P)	9433	2.11 / 0.129	14 / 0.551	13.7 / 0.539	3000~30000	0.56 / 29000	254 / 8.96	
PRO-12BX(P)	9437	2.11 / 0.129	14 / 0.551	13.7 / 0.539	3000~30000	0.56 / 29000	254 / 8.96	
PRO-15BZ(P)	9432	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	3000~30000	0.6 / 29000	243 / 8.57	
PRO-15BZX(P)	9434	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	3000~30000	0.6 / 29000	265 / 9.35	
PRO-15BXS	9414	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	3000~28000	0.58 / 27000	265 / 9.35	
PRO-21BX-RS	9429	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~35000	2.0 / 30000	388 / 13.68	
PRO-21B-R(P)	9435	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	295 / 10.40	
PRO-21BX-R(P)	9436	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	390 / 13.76	
PRO-21BX-RP	9441	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	425 / 14.99	
PRO-50BX(R)	9445	8.19 / 0.500	22.5 / 0.886	20.6 / 0.811	3000~30000	1.8 / 16000	465.2 / 16.41	
PRO-70BX(R)	9447	11.49 / 0.701	25 / 0.984	23.4 / 0.921	3000~25000	2.25 / 16000	600 / 21.16	
EVO-12	9460	2.11 / 0.129	13.85 / 0.545	14 / 0.551	3000~35000	0.75 / 29000	225 / 7.94	
EVO-12X	9461	2.11 / 0.129	13.85 / 0.545	14 / 0.551	3000~35000	0.75 / 29000	250 / 8.82	
EVO-15	9462	2.47 / 0.151	15 / 0.591	14 / 0.551	3000~35000	0.85 / 29000	230 / 8.11	
EVO-15X	9463	2.47 / 0.151	15 / 0.591	14 / 0.551	3000~35000	0.85 / 29000	255 / 8.99	
EVO-12(TH)	9464	2.11 / 0.129	13.85 / 0.545	14 / 0.551	3000~35000	0.75 / 29000	220 / 7.76	
EVO-12X(TH)	9465	2.11 / 0.129	13.85 / 0.545	14 / 0.551	3000~35000	0.75 / 29000	245 / 8.64	
EVO-15(TH)	9466	2.47 / 0.151	15 / 0.591	14 / 0.551	3000~35000	0.85 / 29000	225 / 7.94	
EVO-15X(TH)	9467	2.47 / 0.151	15 / 0.591	14 / 0.551	3000~35000	0.85 / 29000	250 / 8.82	

TWO STROKE MARINE ENGINE

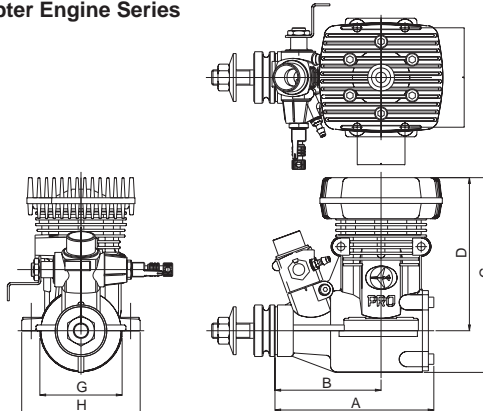
ITEMS	No.	DIPLACEMENT (cc / cu.in)	BORE (mm / in.)	STROKE (mm / in.)	PRACTICAL RPM	OUTPUT (BHP / RPM)	WEIGHT(w/muffler) (g / oz)	NOTE
GP-15MX	9501	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	2500~18000	0.42 / 17000	262.7 / 9.27	
PRO-15MX	9551	2.49 / 0.152	15.2 / 0.598	13.7 / 0.539	3000~30000	0.47 / 27000	323 / 11.39	
PRO-21MX	9561	3.55 / 0.216	16.8 / 0.661	16 / 0.630	2500~31000	1.2 / 28000	375.8 / 13.25	
PRO-21MX-R	9566	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	385 / 13.58	
PRO-21M-OB	9567	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	720 / 25.39	
PRO-21M-OB	9568	3.46 / 0.211	16.6 / 0.654	16 / 0.630	3000~38000	2.1 / 30000	720 / 25.39	

ENGINE DIMENSION LIST

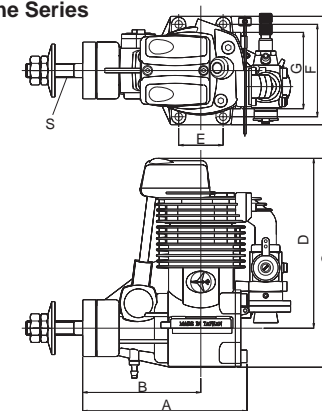
Two-Stroke Aircraft Engine Series



Helicopter Engine Series



Four Stroke Engine Series



Two-Stroke Aircraft Engine Series

Item	No.	A (mm/in.)	B (mm/in.)	C (mm/in.)	D (mm/in.)	E (mm/in.)	F (mm/in.)	G (mm/in.)	H (mm/in.)	S (thread)
GP-07	9007	47.1 / 1.85	31.8 / 1.25	54.7 / 2.15	39.9 / 1.57	10 / 0.39	25 / 0.98	19.4 / 0.76	29.6 / 1.17	M4x0.7
GP-10	9010	55.6 / 2.19	39.7 / 1.56	57.8 / 2.28	46.1 / 1.81	11 / 0.43	31.4 / 1.24	22.8 / 0.90	38 / 1.50	M5 x 0.8
GP-15	9011	57.4 / 2.26	40.4 / 1.59	62.3 / 2.45	49.5 / 1.95	14.4 / 0.57	33 / 1.30	24.6 / 0.97	40 / 1.57	7/32 - 32
GP-25	9020	66.4 / 2.61	46.6 / 1.83	74.6 / 2.94	60.1 / 2.37	14 / 0.55	36 / 1.42	28 / 1.10	45 / 1.77	1/4 - 28
GP-42	9041	75.6 / 2.98	52.8 / 2.08	82.7 / 3.26	65.9 / 2.59	17.5 / 0.69	40.5 / 1.59	32.6 / 1.28	48 / 1.89	1/4 - 28
GP-61	9060	91.9 / 3.62	64.1 / 2.52	104.4 / 4.11	82.9 / 3.26	25 / 0.98	52 / 2.05	42 / 1.65	62 / 2.44	5/16 - 24
PRO-25	9120	74.5 / 2.93	53.5 / 2.11	75.5 / 2.97	60.4 / 2.38	15 / 0.59	38 / 1.50	29.2 / 1.15	45 / 1.77	1/4 - 28
PRO-36	9130	74.5 / 2.93	53 / 2.09	75.3 / 2.96	59.5 / 2.34	15 / 0.59	38 / 1.50	31 / 1.22	45 / 1.77	1/4 - 28
PRO-40	9140	84.9 / 3.34	60.3 / 2.37	86.3 / 3.40	69 / 2.72	17.5 / 0.69	42 / 1.65	34 / 1.34	50 / 1.97	1/4 - 28
PRO-46	9141	84.9 / 3.34	60.3 / 2.37	87 / 3.43	69.7 / 2.74	17.5 / 0.69	42 / 1.65	34 / 1.34	50 / 1.97	1/4 - 28
PRO-61	9160	94.9 / 3.74	67 / 2.64	104.8 / 4.13	83 / 3.27	25 / 0.98	52 / 2.05	43 / 1.69	62 / 2.44	5/16 - 24
PRO-90	9190	94.9 / 3.74	67 / 2.64	105.6 / 4.16	83.8 / 3.30	25 / 0.98	52 / 2.05	43 / 1.69	62 / 2.44	5/16 - 24
PRO-120	9195	106.2 / 4.18	74.4 / 2.93	117.5 / 4.63	93 / 3.66	30 / 1.18	59 / 2.32	48.2 / 1.90	70 / 2.76	5/16 - 24
PRO-120-RP	9196	117.2 / 4.61	74.4 / 2.93	117.5 / 4.63	93 / 3.66	30 / 1.18	59 / 2.32	48.2 / 1.90	70 / 2.76	5/16 - 24

Helicopter Engine Series

Item	No.	A(mm/in)	B(mm/in)	C(mm/in)	D(mm/in)	E(mm/in)	F(mm/in)	G(mm/in)	H(mm/in)	S(thread)
*PRO-36H	9670	74.5 / 2.93	53 / 2.09	76.8 / 3.02	61 / 2.40	15 / 0.59	38 / 1.50	31 / 1.22	45 / 1.77	1 / 4-28
PRO-39H(R)	9604	74.5 / 2.93	53 / 2.09	76.8 / 3.02	61 / 2.40	15 / 0.59	38 / 1.50	31 / 1.22	45 / 1.77	1 / 4-28
PRO-50H(R)	9605	76.3 / 3.00	51.7 / 2.04	85.6 / 3.37	68.3 / 2.69	17.5 / 0.69	44 / 1.73	34 / 1.34	50 / 1.97	1 / 4-28
PRO-70H(R)	9607	83.1 / 3.27	55.5 / 2.19	101.9 / 4.01	80.1 / 3.15	25 / 0.99	52 / 2.05	43 / 1.69	62 / 2.44	5 / 16-24
PRO-90H(R)	9609	83.1 / 3.27	55.5 / 2.19	102.3 / 4.03	80.5 / 3.17	25 / 0.98	52 / 2.05	43 / 1.69	62 / 2.44	5 / 16-24

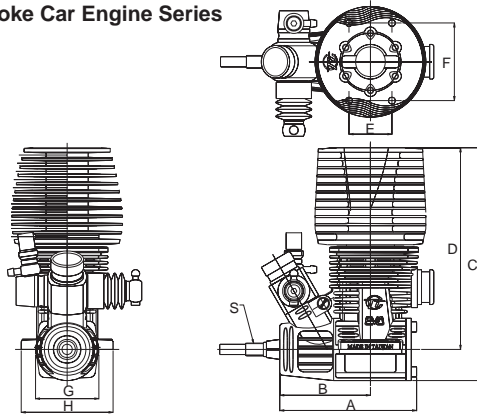
* Engine discontinued

Four Stroke Engine Series

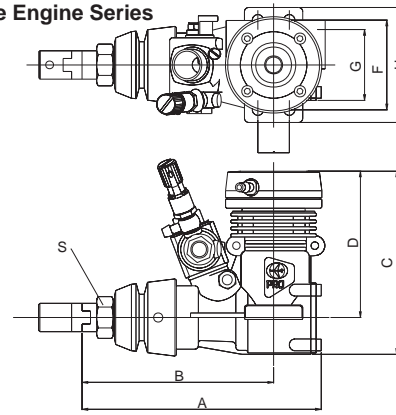
Item	No.	A (mm/in.)	B (mm/in.)	C (mm/in.)	D (mm/in.)	E (mm/in.)	F (mm/in.)	G (mm/in.)	H (mm/in.)	S(thread)
F-54S	9800	79 / 3.11	57 / 2.24	99.8 / 3.93	81.5 / 3.21	20 / 0.79	44 / 1.73	35.6 / 1.40	51 / 2.01	1/4 - 28
F-91S	9801	92.5 / 3.64	66.5 / 2.62	117.7 / 4.63	95.7 / 3.77	25 / 0.98	52 / 2.05	43 / 1.69	60 / 2.36	5/16-24

ENGINE DIMENSION LIST

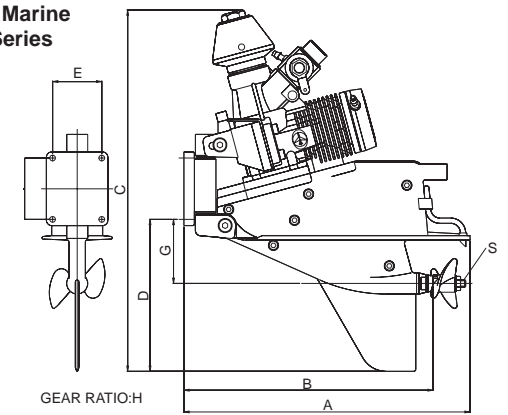
Two-Stroke Car Engine Series



Two-Stroke Marine Engine Series



Outboard Marine Engine Series



Two-Stroke Car Engine Series

Item	No.	A (mm/in.)	B (mm/in.)	C (mm/in.)	D (mm/in.)	E (mm/in.)	F (mm/in.)	G (mm/in.)	H (mm/in.)	S(thread)
PRO-12BZ(P)	9431	57.6/2.27	41/1.61	81.2/3.20	68.3/2.69	11/0.43	31.4/1.24	25.5/1.00	40.2/1.58	1/4"-28
PRO-12BZX(P)	9433	76.6/3.02	41/1.61	81.2/3.20	68.3/2.69	11/0.43	31.4/1.24	25.5/1.00	40.2/1.58	1/4"-28
PRO-12BX(P)	9437	81/3.19	44/1.73	99.5/3.92	79.5/3.13	15/0.59	38/1.50	31/1.22	45/1.77	1/4"-28
PRO-15BZ(P)	9432	57.6/2.27	41/1.61	81.2/3.20	68.3/2.69	11/0.43	31.4/1.24	25.5/1.00	40.2/1.58	1/4"-28
PRO-15BZX(P)	9434	76.6/3.02	41/1.61	81.2/3.20	68.3/2.69	11/0.43	31.4/1.24	25.5/1.00	40.2/1.58	1/4"-28
PRO-15BXS	9414	76.6/3.02	41/1.61	81.2/3.20	68.3/2.69	11/0.43	31.4/1.24	25.5/1.00	40.2/1.58	1/4"-28
PRO-21B-R(P)	9435	64/2.52	44/1.73	99.3/3.91	83.8/3.30	15/0.59	38/1.50	31/1.22	45/1.77	1/4"-28
PRO-21BX-R(P)	9436	81/3.19	44/1.73	103.8/4.09	83.8/3.30	15/0.59	38/1.50	31/1.22	45/1.77	1/4"-28
PRO-21BX-RS	9429	81/3.19	44/1.73	99.5/3.92	79.5/3.13	15/0.59	38/1.50	31/1.22	45/1.77	1/4"-28
PRO-21BX-RP	9441	99.6/3.92	44/1.73	104/4.09	83.8/3.30	15/0.59	37/1.46	31/1.22	45/1.77	1/4"-28
PRO-50BX(R)	9445	76.3/3.00	51.7/2.04	118.1/4.65	100.8/3.97	17.5/0.69	44/1.73	34/1.34	50/1.97	1/4"-28
PRO-70BX(R)	9447	98.4/3.87	55.5/2.19	101.9/4.01	80.1/3.15	25/0.98	52/2.05	43/1.69	62/2.44	1/4"-28
EVO-12	9460	54.1/2.13	35.2/1.39	83.2/3.28	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	1/4"-28
EVO-12X	9461	71.1/2.80	35.2/1.39	86.7/3.41	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	1/4"-28
EVO-15	9462	54.1/2.13	35.2/1.39	83.2/3.28	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	1/4"-28
EVO-15X	9463	71.1/2.80	35.2/1.39	86.7/3.41	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	1/4"-28
EVO-12(TH)	9464	54.1/2.13	35.2/1.39	83.2/3.28	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	M5x0.8
EVO-12X(TH)	9465	71.1/2.80	35.2/1.39	86.7/3.41	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	M5x0.8
EVO-15(TH)	9466	54.1/2.13	35.2/1.39	83.2/3.28	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	M5x0.8
EVO-15X(TH)	9467	71.1/2.80	35.2/1.39	86.7/3.41	70.7/2.78	11/0.43	31.4/1.24	25.5/1.00	39.5/1.56	M5x0.8

Two-Stroke Marine Engine Series

Item	No.	A (mm/in.)	B (mm/in.)	C (mm/in.)	D (mm/in.)	E (mm/in.)	F (mm/in.)	G (mm/in.)	H (mm/in.)	S(thread)
GP-15MX	9501	96.6 / 3.80	61.8 / 2.43	71.7 / 2.82	53.6 / 2.11	14.4 / 0.57	33 / 1.30	24.6 / 0.97	40 / 1.57	M5 x 0.8
PRO-15MX	9551	99.7 / 3.93	64.2 / 2.53	69.1 / 2.72	51.2 / 2.02	11 / 0.43	31.4 / 1.24	25.5 / 1.00	40.2 / 1.58	M5 x 0.8
PRO-21MX	9561	120.1 / 4.73	81.6 / 3.21	82.1 / 3.23	62 / 2.44	15 / 0.59	38 / 1.50	29.2 / 1.15	45 / 1.77	1/4 - 28
PRO-21MX-R	9556	118.6 / 4.67	81.6 / 3.21	80.1 / 3.15	60 / 2.36	15 / 0.59	38 / 1.50	31 / 1.22	45 / 1.77	1/4 - 28

Outboard Marine Engine Series

Item	No.	A (mm/in.)	B (mm/in.)	C (mm/in.)	D (mm/in.)	E (mm/in.)	F (mm/in.)	G (mm/in.)	H (Gear Ratio)	S(thread)
PRO-21M-OB	9567	163 / 6.42	142 / 5.59	205.8 / 8.10	86.5 / 3.41	28 / 1.10	35 / 1.38	36.5 / 1.44	1.19:1	M4 x 0.7
PRO-21M-OB	9568	163 / 6.42	142 / 5.59	205.8 / 8.10	86.5 / 3.41	28 / 1.10	35 / 1.38	36.5 / 1.44	1.04:1	M4 x 0.7



EXPLODE DRAWING AND PARTS LIST FOR

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