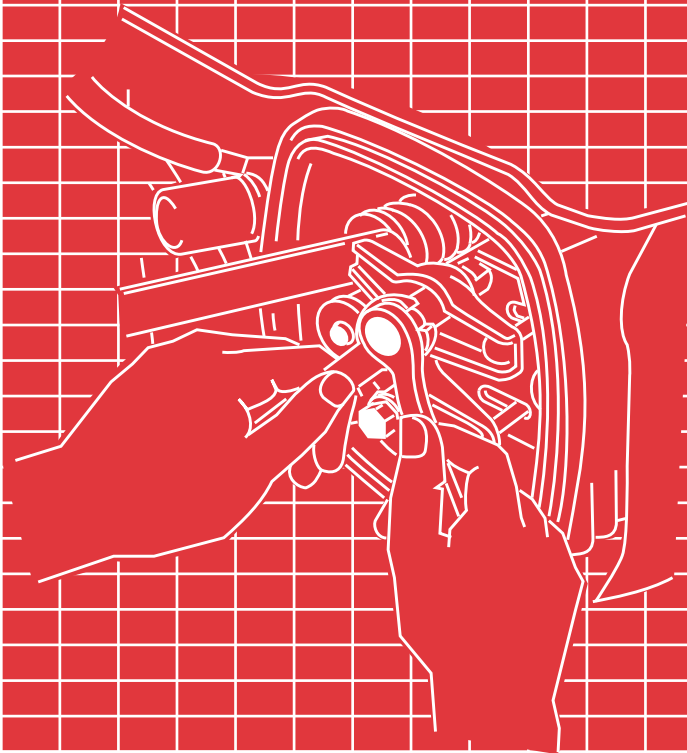


# HONDA

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# ENGINES

# ENGINE SERVICE SPECIFICATIONS





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**GENERATORS**

GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
E300,K1,K2,K3 EM300,K1,K2,K3	E300	NGK CM6	0.40 mm (0.016 in.)	14.5 mm (0.57 in.)	Idle: 2,500 ±100 rpm With load: 3,600 rpm or 60 Hz	0.3 qt.	490 kPa (71 psi)	IN: 0.05 ± 0.01 mm EX: 0.05 + 0.02- 0.00 mm
EX350	GE35	NGK BMR-6A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.2 ~ 21.2 mm (0.75 ~ 0.83 in.)	150VA, No Load: 3,100 ± 100 rpm 300VA, No Load: 4,700 ± 100 rpm	—	114 psi	—
E400 EM400,K1 ER400	E400 EM400,K1 ER400	NGK CM6	0.4 mm (0.016 in.)	14.5 mm (0.57 in.)	With Load: 3,600 rpm or 60 Hz	0.3 qt.	70 psi	IN: 0.05 ± 0.01 mm EX: 0.06 ± 0.01 mm
EM500	EM500	NGK BPMR6A	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	With Load: 3,600 rpm or 60 Hz	0.35 qt.	71 psi	0.07 ± 0.03 mm
EM500K1	EM500K1	NGK BPMR4A-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	With Load: 3,600 rpm or 60 Hz	0.35 qt.	71 psi	0.07 ± 0.03 mm
EM600	EM600	NGK BPMR4A-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	With Load: 3,600 rpm or 60 Hz	0.35 qt.	71 psi	0.07 ± 0.03 mm
EG650	G100,K1	NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	No Load: 3,750 ± 50 rpm	0.45 qt.	92 psi	0.12 ± 0.04 mm
EM650	EM650	NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.2 ~ 21.2 mm (0.76 ~ 0.83 in.)	No Load: 3,750 ± 50 rpm	0.35 qt.	85 psi	0.10 ± 0.04 mm
EX650	EX650	NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.2 ~ 21.2 mm (0.76 ~ 0.83 in.)	No Load: 3,750 ± 50 rpm	0.35 qt.	85 psi	0.10 ± 0.04 mm
EX700c	GX50H	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.0 mm (0.47 in.)	No Load: 4,700 ± 150 rpm	0.26 qt.	61.2 psi @ 1000 rpm	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
EX800	EX800	NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 50 rpm	0.45 qt.	92 psi	0.12 ± 0.04 mm
E900	G28	NGK C6H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.08 in.)	No Load: 5,000 rpm	0.75 qt.	100 psi	0.05 mm
EX1000	EX1000	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	No Load: 3,750 ± 50 rpm	0.45 qt.	92 psi	0.12 ± 0.04 mm
E1000 E1500	G40	NGK B6H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	0.5 mm (0.02 in.)	No Load: 3,500 rpm	0.6 qt.	100 psi	0.08 ± 0.02 mm
EG1000A	G150	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 100 rpm	0.75 qt.	85 psi	0.08 ± 0.04 mm
EG1000Z	G150	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 100 rpm	0.75 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.

GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EU1000i	GX50H	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.0 mm (0.47 in.)	No Load (Eco-Throttle™ OFF): 5,500 ± 100 rpm	0.26 qt.	61.2 psi @ 1000 rpm	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
EG1400X	GX110	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	No Load: 3,750 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.12 ± 0.02 mm EX: 0.20 ± 0.04 mm
EG1400XK1	GX120K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EG1400Z	GE150	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 100 rpm	0.75 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EZ1400	GX110	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	No Load: 3,750 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.12 ± 0.02 mm EX: 0.20 ± 0.04 mm
EG1500 ER1500	G41	NGK B4H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.08 in.)	No Load: 3,750 ± 100 rpm	0.85 qt.	90 psi	0.07 mm
ED1000K1,K2,K3 E1500K1,K2,K3 EG1500K3	G42	NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.08 in.)	No Load: 3,600 rpm	0.65 qt.	85 psi	0.08 ± 0.03 mm
ED1000K4 E1500K4 EG1500K4	G200	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 100 rpm	0.75 qt.	85 psi	See G200, page 33.
EG1800Z EG2200Z EM1600	GE200	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 150 rpm	0.75 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM1800 EM2200	GE200	NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 150 rpm	0.75 qt.	86 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM1600X EM1800X EM2200X EB2200X	GX140	NGK BPR6ES	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	No Load: 3,750 ± 150 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM1800XK1	GX160K1	NGK BPR6ES	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EU2000i	GX100	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.0 mm (0.47 in.)	No Load (Eco-Throttle OFF): 4,300 ± 100 rpm	0.42 qt.	71 psi	IN: 0.15 ± 0.02 EX: 0.20 ± 0.02
EG2200X EX2200X	GX140	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	No Load: 3,750 ± 150 rpm	0.65 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
E2500K1 E2500K2,K3 E2000	G65	NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.5 mm (0.77 in.)	No Load: 3,600 rpm	0.85 qt.	105 psi 55 psi 55 psi	0.08 ± 0.03 mm

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GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
E2500K4	G300	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,600 rpm	1.25 qt.	85 psi	See G300, page 33.
EB2500XK1	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EG2500XK1	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM2500XK1	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EN2500	GC160	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	No Load: 3,850 ± 50 rpm	0.61 qt.	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EP2500CX	GX160H1	BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.58 qt.	71 ~ 100 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EZ2500	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 +30/-150 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB3000	GE300	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Auto-Throttle: 2,200 ± 100 rpm No Load: 3,750 ± 150 rpm	1.25 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EB3000c,K1	GX200	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.58 qt.	51.2 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM3000	GE300	NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	No Load: 3,750 ± 150 rpm	1.25 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM3000c	GX200	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,750 ± 150 rpm	0.58 qt.	51.2 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EU3000i Handi	GX160K1	NGK BRP6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Eco-Throttle OFF: 3,600 ± 100 rpm	0.56 qt.	61 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EU3000is	GX200	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	No Load: 3,500 rpm Eco-Throttle OFF	0.58 qt.	51.2 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EX3300S EX3300SK1	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
E3500 ES3500	G80	NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.5 mm (0.77 in.)	No Load: 3,500 rpm	1.15 qt.	55 psi	0.08 ± 0.03 mm
E3500K1 ES3500K1,K2	G400	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	No Load: 3,100 rpm	1.25 qt.	85 psi	See G400, page 33.
EB3500X EB3500XK1	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm

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GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EG3500X EG3500XK1	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM3500X	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM3500SX EM3500SXX1	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EN3500	GX240K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EZ3500	GX240K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB3800X EM3800SX	GX240K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB4000	GE400	NGK BPR4HS-10	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	Auto-Throttle: 2,200 ± 100 rpm No Load: 3,750 ± 150 rpm	1.25 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM4000	GE400	NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)		No Load: 3,750 ± 150 rpm			IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EMS4000 EMS4500	GE400	NGK BPR4HS	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	Auto-Throttle: 2,200 ± 100 rpm No Load: 3,750 ± 150 rpm	1.25 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
E4500,K1 ES4500,K1 ET4500	G400	NGK BPR4HS	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,100 rpm	1.25 qt.	85 psi	See G400, page 33.
EX4500S	GX340	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EB5000i	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load (Eco-Throttle ON): 2,400 ± 100 rpm No Load (Eco-Throttle OFF): 3,300 ± 100 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EX4500SK1 EB5000XK1 EM5000SXX1	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Auto-throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa(114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM5000SXX2	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB5000XK2	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EB5000X	GX340	NGK BPR6ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM5000A	EM5000A	NGK B6ES	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.5 mm (0.77 in.)	Idle: 1,200 ± 100 rpm With Load: 3,600 rpm or 60 Hz	Without filter change: 2.65 qt. With filter change: 3.15 qt.	165 psi	0.08 ± 0.03 mm
EM5000is	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load (Eco-Throttle ON): 2,400 ± 100 rpm No Load (Eco-Throttle OFF): 3,300 ± 100 rpm	1.16 qt.	86 ~ 120 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EG5000X	GX340	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EG5000XK1	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	No Load: 3,750 ± 150 rpm	1.16 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM5000X	GE340	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM5000SX	GX340	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EN5000	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EZ5000	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EL5000 EX5500 ES6500	GX360-E GX360-EX GX360-ES	NGK BPR6HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.5 qt.	142 ~ 171 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EX5500K1,K2	GX360K1-EX	NGK BPR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.5 qt.	142 ~ 171 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EM6000GP	GX390K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	—	No Load: 3,750 ± 150 rpm	1.16 qt.	588 ~ 784 kPa (85.3 ~ 113.9 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB6500SX	GX390K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	588 ~ 784 kPa (85.3 ~ 113.9 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.

GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EB6500X	GX390K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM6500SXX1	GX390K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
ES6500K1,K2	GX360K1-ES	NGK BPR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.5 qt.	142 ~ 171 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
EU6500is	GX390K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load (Eco-Throttle ON): 2,400 ± 100 rpm No Load (Eco-Throttle OFF): 3,300 ± 100 rpm	1.16 qt.	86 ~ 120 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB7000i	GX390K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load (Eco-Throttle ON): 2,400 ± 100 rpm No Load (Eco-Throttle OFF): 3,300 ± 100 rpm	1.16 qt.	86 ~ 120 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EM7000is	GX390K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load (Eco-Throttle ON): 2,400 ± 100 rpm No Load (Eco-Throttle OFF): 3,300 ± 100 rpm	1.16 qt.	86 ~ 120 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB11000	GX610 GX620	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	Without filter change: 1.27 qt. With filter change: 1.59 qt.	586 ~ 786 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB11000K1	GX620K1	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 ± 150 rpm	1.16 qt.	85 ~ 114 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
EB12D	GD1100	—	—	—	No load: 3,710 ~ 3,740 rpm	5 qt.	2,648 kPa (384 psi) @ 200 rpm	IN and EX: 0.20 ± 0.02 mm

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**WELDER GENERATORS**

WELDER GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EW140	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 +100 -0 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EW170	GE400	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 +100 -0 rpm	1.25 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EW171 EXW171S	GX340	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Auto-Throttle: 2,200 ± 200 rpm No Load: 3,750 +100 -0 rpm	1.16 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EW171K1	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028~0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Auto-Throttle: 2,200 ± 200 rpm No load: 3,750 +0 -100 rpm	1.16 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

**RV GENERATORS**

RV GENERATOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
EV4000	G400	NGK BPR6HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	7.1 ~ 10.1 mm (0.28 ~ 0.40 in.)	No Load: 3,750 +30 -0 rpm	2.5 qt.	86 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
EV4010 EVD4010 EV6010 EVD6010	GX360K1-EV	NGK BPR4HS	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	No Load: 3,750 +30 -0 rpm	1.3 qt.	142 ~ 171 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm

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**HAND-HELD**

HAND-HELD MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HHT25S	GX25	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.08 qt.	131 ~ 159 psi	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
HHE31c	GX31	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.11 qt.	117 ~ 159 psi	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
HHT31S	GX31	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.11 qt.	117 ~ 159 psi	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
HHT35S	GX35	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.11 qt.	138 ± 22 psi	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
UMK422,K1	GX22	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.1 qt.	117 ~ 159 psi	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
UMK431,K1	GX31	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.1 qt.	117 ~ 159 psi	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm

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**LAWN MOWERS**

LAWN MOWER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HR17	G100 Vertical Type	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,600 ± 150 rpm	0.45 qt.	92 psi	0.07 ± 0.03 mm
HR173	GV100K1	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,600 ± 150 rpm	0.4 qt.	85 psi	0.12 ± 0.04 mm
HR21,K1,K2	GV150 engine # 2029059 & subsequent	NGK BM6A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	8.2 mm (0.32 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.65 qt.	85 ~ 144 psi	See GV150, page 34.
		NGK BPM6A for CDI	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)					
HR195 HR215,K1 HRA215 HRC215	GXV140	NGK BP5ES NGK BPR5ES	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 2,100 rpm (blade disengaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.6 qt.	85 ~ 121 psi 58 ~ 85 psi (HR215K1)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HR21-5	GV200	NGK BM6A NGK BMR6A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.75 qt.	85 psi	See GV200, page 34.
HRA21	GV150K1	NGK BMR6A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,200 ± 150 rpm (blade engaged)	0.65 qt.	70 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRM21 HRS21	GXV110	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	8.0 mm (0.31 in.)	Idle: 1,700 ± 300 rpm Maximum: 3,100 ± 150 rpm	0.35 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.10 ± 0.03 mm EX: 0.15 ± 0.03 mm
HR194 HR214 HRA214	GXV120	NGK BP5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 2,000 ± 150 rpm (blade disengaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.6 qt.	Decompressor disengaged: 114 ~ 70 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HRB215 HRM215	GXV140	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,100 ± 100 rpm (blade engaged)	0.6 qt.	Decompressor engaged: 711 ± 123 kP (85 ~ 121 psi @ 600 rpm)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HRB216	GCV160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt.	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRM195PA	GXV140K1	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 2,100 ± 150 rpm Maximum: 3,150 ± 150 rpm (blade engaged)	0.63 qt.	58 ~ 85 psi @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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LAWN MOWER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HRB215K1,K2,K3,K4 HRM215K1,K2,K3,K4	GXV140	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,100 ± 100 rpm (blade engaged)	0.6 qt.	58 ~ 85 psi @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HR216 HRA216	GXV160	NGK BP5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.7 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HRB217	GCV190	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt.	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRC215K1	GXV140K1	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 2,100 ± 150 rpm Maximum: 2,950 ~ 3,250 rpm	0.63 qt.	58 ~ 85 psi @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HRC216,K1,K2, K3 (except PDA)	GXV160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 1,700 ± 150 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm (blade engaged)	0.7 qt.	Decompressor engaged: 711 ± 123 kPa (71 ~ 114 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HRC216K2,K3 PDA	GSV160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 3,100 ± 50 rpm	0.58 qt.	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRS216 HRR216 HRT216	GCV160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt. 12 ~ 13.5 oz. (refill)	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRR216K2-K6 HRS216K1-K4 HRT216K1,K2	GCV160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.) 7.2 mm (0.28 in.) (without drain bolt)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt. 12 ~ 13.5 oz. (refill)	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRX217,K1,K2	GCV190	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.) 7.2 mm (0.28 in.) (without drain bolt)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt. 12 ~ 13.5 oz. (refill)	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRX217VKAK1, K2	GCV190	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.) 7.2 mm (0.28 in.) (without drain bolt)	Maximum: 2,950 ~ 3,100 rpm	0.58 qt. 12 ~ 13.5 oz. (refill)	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HRZ216	GCV160	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 2,950 ~ 3,100 rpm	0.58 qt. 12 ~ 13.5 oz. (refill)	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm

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**RIDING MOWERS**

RIDING MOWER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HT-R3009 HT-R3009K1	GXV270	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 +200 -0 rpm Maximum: 3,300 ± 150 rpm	1.2 qt.	3.0 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HT-R3811	GXV340	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 +200 -0 rpm Maximum: 3,300 ± 150 rpm	1.2 qt.	3.0 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
H1011 H3011 H3011H	GXV340	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 +200 -0 rpm Maximum: 3,300 ± 100 rpm	1.16 qt.	H1011: 2.96 qt. H3011: 2.96 qt. H3011H: 4.86 qt. Honda Hydrostatic fluid	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
H3013H	GXV390	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 +200 -0 rpm Maximum: 3,300 ± 100 rpm	1.16 qt.	4.86 qt. Honda Hydrostatic fluid	92 ~ 142 psi	IN: 0.10 ± 0.02 mm EX: 0.15 ± 0.02 mm

**LAWN TRACTORS**

LAWN TRACTOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
H2013 H2113	GXV390	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 +200 -0 rpm Maximum: 3,300 ± 100 rpm	1.16 qt.	4.86 qt. Honda Hydrostatic fluid	92 ~ 142 psi	IN: 0.10 ± 0.02 mm EX: 0.15 ± 0.02 mm
HT3810K1,K2	G400K1	NGK B4HS NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	7.6 ~ 9.6 mm (0.30 ~ 0.38 in.)	HT3810 Idle: 2,200 ± 150 rpm HT3810K1,K2 Idle: 2,200 +200 -0 rpm Maximum: 3,300 ± 100 rpm	1.25 qt.	2.55 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm
HT3813K1 HT4213	GX360K1	NGK BP4HS NGK BPR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	13.2 mm (0.52 in.)	Idle: 1,300 ± 100 rpm Maximum: 3,300 ± 100 rpm	1.5 qt.	2.5 qt.	142 ~ 171 psi	IN: 0.12 ± 0.02 mm EX: 0.20 ± 0.02 mm
H4013	GXV390	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,700 + 200 rpm Maximum: 3,300 - 100 rpm	1.2 qt.	2.76 qt.	92.4 ~ 142.2 psi	IN: 0.10 ± 0.02 mm EX: 0.15 ± 0.02 mm
HA4118	GXV610	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	1.8 qt.	3.6 qt.	85 ~ 114 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HA4120	GXV620	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	1.8 qt.	3.6 qt.	85 ~ 114 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
H4514	GX360	NGK BPR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	13.2 mm (0.52 in.)	Idle: 1,300 + 200 rpm Maximum: 3,300 - 100 rpm	1.48 qt.	5.28 qt.	171 psi	IN: 0.10 ~ 0.14 mm EX: 0.18 ~ 0.22 mm
H4518	GX640	NGK BPR5ES- 11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	14.0 mm (0.55 in.)	Idle: 1,750 + 150 rpm Maximum: 2,950 - 100 rpm	2.11 qt.	5.28 qt.	57 ~ 100 psi	IN: 0.10 ~ 0.14 mm EX: 0.18 ~ 0.22 mm

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## UTILITY TRACTORS

UTILITY TRACTOR MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
RT5000	GX340	NGK BP6ES-11 NGK BPR6ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Slow: 1,700 rpm Maximum: 3,800 rpm	1.2 qt.	4.0 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
H5013	GX390	NGK BP6ES-11 NGK BPR6ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Slow: 1,700 rpm Maximum: 3,800 rpm	1.2 qt.	4.0 qt.	142 psi @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
H5518	GX640	NGK BPR5ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	14.0 mm (0.55 in.)	Slow: 1,750 rpm Maximum: 3,000 rpm	2.11 qt.	4.0 qt.	177.8 ~ 192 psi @ 350 rpm	IN: 0.10 ± 0.14 mm EX: 0.18 ± 0.22 mm

## TILLERS

TILLER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
F28 F28K1	G28 G28K1	NGK C6H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.08 in.)	Idle: 1,400 ± 100 rpm Maximum: 5,000 rpm	0.75 qt.	1.2 qt.	100 psi	0.05 mm
FG100	GX31	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.11 qt.	—	807 ~ 1096 kPa (117 ~ 159 psi) @ 2,000 rpm	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
FG110,K1	GX25	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.08 qt.	—	131 ~ 159 psi	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
F200	G100 Vertical Type	NGK BM4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,900 ± 100 rpm	0.45 qt.	0.9 qt.	92 psi	0.07 ± 0.03 mm
F210 F210K1 F210K2	G100 Vertical Type	NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,900 ± 100 rpm	0.45 qt.	1.0 qt.	85.3 psi	0.12 ± 0.04 mm
F220	GXV57	NGK CR4HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.47 in.)	4,250 +0/-200 rpm	0.31 qt.	1.0 qt.	40 psi	IN: 0.06 ~ 0.10 mm EX: 0.09 ~ 0.13 mm
F400A1 F400A2	G35	NGK B6HS NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	11.5 mm (0.45 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	0.65 qt.	1.2 qt.	55 psi	0.08 ± 0.03 mm
F400K1	G150	NGK BR4HS	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	0.75 qt.	1.2 qt.	85 psi	See G150, page 33.
FG400	GC135	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.61 qt.	1.0 qt.	71 psi	IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.

TILLER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
F401 F401K1	GX110	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm	0.65 qt.	1.0 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
F500A1 F500A2	G200	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	0.75 qt.	1.2 qt.	85 psi	See G200, page 33.
FR500 FR500K1	G200	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	0.75 qt.	1.2 qt. Rotary case: .37 qt.	85 psi	See G200, page 33.
F501 F501K1	GX140	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm	0.65 qt.	1.0 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FG500	GC160	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.61 qt.	1.0 qt.	71 psi	IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm
FC600	GX160K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.63 qt.	1.0 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FR600	GX160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 0 rpm Maximum: 3,800 ± 100 rpm	0.65 qt.	Transmission: 2.54 qt. Lower chain case: 350 cc (11.8 fl. oz.)	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) Disengaged: 979 ± 193 kPa (114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FR650	GX160K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ± 200 rpm Maximum: 4,000 ± 200 rpm	0.6 qt.	2.7 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FR700 FR700K1	G300	NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,600 rpm	1.25 qt.	1.2 qt. Rotary case: .37 qt.	85 psi	See G300, page 33.
FR750	GX200	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,600 ± 200 rpm Maximum: 4,000 ± 200 rpm	0.6 qt.	2.5 qt.	51 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FR800	GX240	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 + 200 - 0 rpm Maximum: 3,800 ± 100 rpm	1.16 qt.	Transmission: 2.54 qt. Lower chain case: 350 cc (11.8 fl. oz.)	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
FRC800	GX240K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 ± 0.05 in.)	Idle: 1,400 + 150 rpm Maximum: 3,400 ~ 3,600 rpm	1.16 qt.	5.3 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.

## SNOWBLOWERS/SNOWTHROWERS

SNOWBLOWER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HS35	G150	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Governed speed: 3,900 ± 100 rpm	0.75 qt.		85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
		NGK BP4HS-10 NGK BPR4HS-10 for CDI	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)						
HS50	G200	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Slow: 2,100 ± 100 rpm Maximum: 3,800 ± 100 rpm	0.75 qt.	Auger trans: 0.21 qt. SAE 90 gear oil	85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
HS520,K1	GC160	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Maximum: 3,700 ± 150 rpm	0.63 qt.	—	71 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
HS521	GX140	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Governed speed: 3,700 ± 150 rpm	0.65 qt. <u>SAE 5W-30</u>	—	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disen- gaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HS522	GX140	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Slow: 2,250 ± 100 rpm Maximum: 3,800 ± 100 rpm	0.65 qt.	Transmission: 0.21 qt. SAE 5W-30 Auger trans: 0.17 qt. SAE 90 gear oil	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS55K1,K2	GX140	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,800 ± 150 rpm	0.65 qt.	Subtrans.: 0.15 qt. SAE 5W-30 Auger trans: 0.21 qt. SAE 90 gear oil	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS621	GX160	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Governed speed: 3,700 ± 150 rpm	0.65 qt. <u>SAE 5W-30</u>	Auger drive: 160 cc (5.41 fl oz.) SAE 90 gear oil Track or wheel drive: 0.79 qt. hydrostatic trans- mission fluid	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disen- gaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS622	GX160K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Slow: 2,250 ± 100 rpm Maximum: 3,800 rpm	0.63 qt. <u>SAE 5W-30</u>	2.1 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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SNOWBLOWER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HS624 HS624K1	GX160	NGK BP5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,800 ± 150 rpm		Auger drive: 160 cc (5.41 fl. oz.) SAE 90 gear oil Track or wheel drive: 0.79 qt. hydrostatic transmission fluid	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS70	G300	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,600 rpm	1.25 qt.	Subtrans.: 0.15 qt. SAE 5W-30 Auger trans: 0.21 qt. SAE 90 gear oil	57 ~ 113 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
HS724	GX200	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,800 ± 150 rpm	0.6 qt. <u>SAE 5W-30</u>	0.79 qt.	51 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HS80,K1	GX240	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,800 ± 150 rpm	1.15 qt.	Subtrans.: 0.15 qt. SAE 5W-30 Auger trans: 0.21 qt. SAE 90 gear oil	Decompressor disengaged: 93 ~ 149 psi	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS828 HS828K1	GX240	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,600 ± 150 rpm	1.16 qt.	Auger drive: 160 cc (5.41 fl. oz.) SAE 90 gear oil Track or wheel drive: 0.79 qt. hydrostatic transmission fluid	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.02 mm
HS928	GX270K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,600 ± 150 rpm	1.2 qt.	0.79 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
HS1132	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Slow: 2,100 ± 150 rpm Maximum: 3,600 ± 150 rpm	1.16 qt.	0.79 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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## WATER PUMPS

WATER PUMP MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED (UNLOADED)	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
WX10	GX31	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.11 qt.	807 ~ 1096 kPa (117 ~ 159 psi) @ 2,000 rpm	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
WX10K1	GX25	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm	0.08 qt.	131 ~ 159 psi	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
WA15	G100	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,200 rpm	0.45 qt.	92 psi	0.12 ± 0.03 mm
WB15	G100K1	NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,100 rpm	0.45 qt.	92 psi	0.12 ± 0.04 mm
WX15	GXH50	NGK CR5HSB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.47 in.)	Idle: 2,500 ± 200 rpm	0.26 qt.	422 kPa (61.2 psi)	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
WH15X	GX110	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WH15XK1	GX120K1	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,950 ± 150 rpm	0.6 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WB20T	G150	NGK BP4HS-10 NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,850 rpm	0.75 qt.	588 kPa (85 psi) @ 600 ~ 700 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
WB20XK1 WD20XK1	GX120K1	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,800 ± 100 rpm	0.63 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WB20XK2	GX120K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,900 ± 100 rpm	0.63 qt.	71 ~ 100 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WA20	G35	NGK B6HS NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	11.5 mm (0.45 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	0.65 qt.	55 psi	0.08 ± 0.03 mm
WA20K1	G150	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	0.75 qt.	85 psi	See G150, page 33.
WA20X	GX110	NGK BP6ES NGK BPR6ES	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,800 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WB20X WD20X	GX110	NGK BP6ES NGK BPR6ES	0.7 - 0.8 mm (0.028 - 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,800 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WDP20X WDP30X,K1	GX120K1QX2 GX120UT1QX2 (K1)	NKG BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	—	Idle: 1,400 +200 -150 rpm Maximum: 3,000 ~ 3,150 rpm	0.6 qt. 0.56 qt. (K1)	—	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.

WATER PUMP MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED (UNLOADED)	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
WDP20XT WDP30XT	GX120T1Q X2	NKG BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	—	Idle: 1,400 +200 -150 rpm Maximum: 3,000 ~ 3,150 rpm	0.6 qt.	—	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WH20X	GX140	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WH20XK1	GX160	NGK BP6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,950 ± 100 rpm	0.63 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WMP20X	GX160	NGK BP6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,850 ± 150 rpm	0.63 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WN20	GC135	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,600 rpm	0.61 qt.	71 psi @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
WT20	G200	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,900 ± 100 rpm	0.75 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
WT20X WT20XK1	GX140	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,750 ± 100 rpm	0.63 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT20XK2	GX160K1	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,750 ± 100 rpm	0.63 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT20XK3	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,900 ± 100 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WA30	G200	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	8.2 mm (0.32 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	0.75 qt.	85 psi	See G200, page 33.
WB30T	G200	NGK BP4HS-10 NGK BPR4HS-10	0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,000 rpm	0.75 qt.	588 kPa (85 psi) @ 600 ~ 700 rpm	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
WA30X	GX140	NGK BP6ES NGK BPR6ES	0.6 - 0.7 mm (0.024 - 0.028 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,750 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WB30X WD30X	GX140	NGK BP6ES NGK BPR6ES	0.7 - 0.8 mm (0.028 - 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,750 ± 100 rpm	0.6 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WB30XK1 WD30XK1	GX160	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ±150 rpm Maximum: 3,750 ± 100 rpm	0.65 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.



WATER PUMP MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED (UNLOADED)	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
WB30XK2	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,900 ± 100 rpm	0.63 qt.	71 ~ 100 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WN30	GC160	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,600 rpm	0.61 qt.	71 psi @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
WP20X	GX120K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 +200/-150 rpm Maximum: 3,900 ± 100 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WP30X	GX160K1	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 +200/-150 rpm Maximum: 3,900 ± 100 rpm	0.63 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT30	G300	NGK B4H NGK BR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.264 ~ 0.382 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,900 ± 100 rpm	1.25 qt.	85 psi	IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm
WT30X WT30XK1	GX240K1	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,400 ± 150 rpm Maximum: 4,000 ± 100 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT30XK2	GX240K2	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Idle: 1,400 ± 150 rpm Maximum: 4,000 ± 100 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT30XK3	GX240K3	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Idle: 1,400 ± 150 rpm Maximum: 4,000 ± 100 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT40X	GX340	NGK BP6ES-11 NGK BPR6ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	11.9 ~ 14.5 mm (0.47 ~ 0.57 in.)	Idle: 1,400 ± 150 rpm Maximum: 4,000 ± 100 rpm	1.2 qt.	Decompressor disengaged: 85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT40XK1	GX340K1	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,900 ± 100 rpm	1.16 qt.	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
WT40XK2	GX340K1	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	Idle: 1,400 ± 150 rpm Maximum: 4,000 ± 100 rpm	1.16 qt.	85 ~ 121 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.



## POWER CARRIERS

POWER CARRIER MODEL	ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	TRANS. OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
HP250	GV100K1	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	10.7 ~ 13.3 mm (0.42 ~ 0.52 in.)	LO: 2,000 ± 100 rpm HI: 4,000 ± 100 rpm	0.4 qt.	2.1 qt.	85 psi	0.12 ± 0.04 mm
HP400 HP400K1 HP400K3	GXV120	NGK BP4ES NGK BPR4ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	LO: 2,000 ± 100 rpm HI: 3,600 ± 100 rpm	0.6 qt.	2.1 qt.	Decompressor disengaged: 114 ~ 170 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

(1) SAE 10W-30 (API service category SJ or later) is recommended for general use, except as noted. Represents crankcase capacity; however, actual amount will vary based on residual oil in engine.



**OHV, HORIZONTAL-SHAFT, AIR-COOLED, GENERAL PURPOSE ENGINES**

ENGINE	ENGINE OIL CAPACITY (1)	TRANSMISSION OIL CAPACITY (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GC135 GC160 GC160A GC160LA GC160LE GC190A GC190LA	0.61 qt.	—	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.49 kPa (71 psi) @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
GS190A	0.58 qt.	—	NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.49 kPa (71 psi) @ 600 rpm	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
GX22 GX31	0.11 qt.	—	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm Maximum: 8,000 rpm	807-1096 kPa (117 ~ 159 psi) @ 2,000 rpm	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
GX25 GX25N GX25NT GX25T	0.08 qt.	—	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm Maximum: 8,000 ± 200 rpm	131 ~ 159 psi	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
GX35 GX35NT	0.11 qt.	—	NGK CMR5H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	—	Idle: 3,100 ± 200 rpm Maximum: 10,000 rpm	138 ± 22	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
GXH50 GXH50U	0.26 qt.	—	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.47 in.)	Idle: 2,500 ± 200 rpm Maximum No Load: 7,800 ± 150 rpm	422 kPa (61.2 psi) @ 1,000 rpm	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
GX100,U	0.42 qt.	—	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.5 in.)	Idle: 1,550 ± 150 rpm Maximum: 4,000 ± 200 rpm	0.49 kPa (71 psi) @ 700 rpm	IN: 0.15 ± 0.04 EX: 0.20 ± 0.04
GX110	0.63 qt.	1/2 reduction: 0.53 qt. 1/6 reduction: 0.16 qt.	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm	Decompressor engaged: 711 ± 123 kPa (103 ± 18 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (142 ± 28 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX120K1 GX120T1 GX120U1 GX120UT1	0.63 qt.	1/2 reduction (centrifugal clutch type): 0.53 qt. 1/2 reduction (L type): Lubri- cated from engine crankcase 1/6 reduction: 0.16 qt.	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm Maximum for DS type: 3,750 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (103 ± 18 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (142 ± 28 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX120K1EM	0.59 qt.	1/2 reduction (centrifugal clutch type): 0.53 US qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: 0.16 US qt.	NGK BP6ES NGK BPR6ES	0.7~0.8 mm (0.028~0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 +200 -150 rpm Maximum: 3,900 ± 100 rpm Maximum for DS type: 3750 ± 150 rpm	Decompressor engaged: 588 ± 98 kPa (85 ± 14 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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ENGINE	ENGINE OIL CAPACITY (1)	TRANSMISSION OIL CAPACITY (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GX140	0.63 qt.	1/2 reduction: 0.53 qt. 1/6 reduction: 0.16 qt.	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 1,400 + 200 - 150 rpm Maximum: 3,900 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (103 ± 18 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (142 ± 28 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX160H1,K1 GX160RT1 GX160T1,U1 GX160UT1	0.63 qt.	1/2 reduction (centrifugal clutch type): 0.53 qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: 0.16 qt.	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm Maximum for (DS type): 3,750 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX160K1EM	0.63 qt.	1/2 reduction (centrifugal clutch type): 0.53 qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: 0.16 qt.	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 - 100 rpm Maximum: 3,900 ± 100 rpm Maximum for DS type: 3,750 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX200 GX200T GX200U GX200UT	0.63 qt.	1/2 reduction (centrifugal clutch type): 0.53 qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: 0.159 qt.	NGK BPR6ES W20EPR-U	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 mm (0.54 in.)	Idle: 1,400 + 200 -150 rpm Maximum:3,850 ± 150 rpm	51.2 psi	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX240 GX240K1 GX240R1 GX240RT1 GX240U1 GX240UT1	1.16 qt.	1/2 reduction (centrifugal clutchtype): 0.32 qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: Lubricated from engine crankcase	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX270 GX270R GX270RT GX270T GX270U GX270UH GX270UT	1.16 qt.	1/2 reduction (centrifugal clutch type): 0.32 qt. 1/2 reduction (L type): Lubricated from engine crankcase 1/6 reduction: Lubricated from engine crankcase	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX340	1.16 qt.	1/2 reduction: Lubricated from engine crankcase 1/6 reduction: Lubricated from engine crankcase	NGK BP6ES-11 NGK BPR6ES-11	1.0 ~ 1.1 mm (0.039 ~ 0.043 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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ENGINE	ENGINE OIL CAPACITY (1)	TRANSMISSION OIL CAPACITY (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GX340K1 GX340R1 GX340RT1 GX340U1 GX340UT1	1.16 qt.	1/2 reduction: Lubricated from engine crankcase 1/6 reduction: Lubricated from engine crankcase	NGK BP6ES NGK BPR6ES	0.7~0.8 mm (0.028~0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX390K1 GX390R1 GX390RT1 GX390T1 GX390U1 GX390UH1 GX390UT1	1.16 qt.	1/2 reduction: Lubricated from engine crankcase 1/6 reduction: Lubricated from engine crankcase	NGK BP6ES NGK BPR6ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.5 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX440IR,U	1.16 qt.	—	NGK BKR7E-E DENSO K22PR-UR	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 mm (0.52 in.)	3,600 rpm* *ECM base program	57 ~ 100 psi	IN: 0.12 ± 0.02 mm EX: 0.15 ± 0.02 mm
GX610 GX620	Without filter change: 1.27 qt. With filter change: 1.59 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	586 ~ 786 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX610K1 GX610R1 GX610U1 GX620K1 GX620R1 GX620U1	Without filter change: 1.16 qt. With filter change: 1.48 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	586 ~ 786 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GX630R GX660R GX690R	Without filter change: 1.59 qt. With filter change: 1.80 qt.	—	NGK ZFR5F, FR2A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	15.5 mm (0.61 in)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	0.5 ~ 0.7 MPa (5.09 ~ 7.14 kgf/cm <sup>2</sup> , 73 ~ 102 psi) @ 1,500 min rpm	IN: 0.08 ± 0.02 mm EX: 0.10 ± 0.02 mm
GX670 GX670R GX670U	Without filter change: 1.69 qt. With filter change: 2.01 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	15.0 mm (0.59 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,850 ± 150 rpm	586 ~ 786 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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## OHV, VERTICAL-SHAFT, AIR-COOLED, GENERAL PURPOSE ENGINES

ENGINE	ENGINE OIL CAPACITY (1)	TRANS. OIL CAP. (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GCV135,A GCV160,A GCV160LA GCV160LA0 GCV160LE GCV190A GCV190LA	0.58 qt.	—	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 3,100 ± 150 rpm	490 kPa (71 psi)	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
GSV190A GSV190LA	0.58 qt.	—	NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	9.2 mm (0.36 in.)	Idle: 1,700 ± 150 rpm Maximum: 3,100 ± 150 rpm	490 kPa (71 psi)	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm
GXV50 GXV50U	0.26 qt.	—	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.47 in.)	Idle: 2,500 ± 200 rpm Maximum No Load: 4,900 ± 100 rpm	422 kPa (61.2 psi) @ 1,000 rpm	IN: 0.08 ± 0.02 mm EX: 0.11 ± 0.02 mm
GXV57U	0.26 qt.	—	NGK CR5HSB DENSO U16FSR-UB	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12 mm (0.47 in.)	4,250 + 0/-200 rpm	40 psi	IN: 0.06 ~ 0.10 mm EX: 0.09 ~ 0.13 mm
GXV120	0.63 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 2,000 ± 150 rpm Maximum: 3,100 ± 150 rpm	Through engine #1219523 decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm From engine #1219524, decompressor engaged: 490 ± 196 kPa (43 ~ 99 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV140	0.63 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	12.2 ~ 15.2 mm (0.48 ~ 0.60 in.)	Idle: 2,100 ± 150 rpm Maximum: 3,100 ± 100 rpm	6.0 ~ 8.5 kg/cm <sup>2</sup> (85 ~ 121 psi) @ 600 rpm	IN: 0.13 ~ 0.17 mm EX: 0.18 ~ 0.22 mm
GXV160 GXV160A1 GXV160H2 GXV160K1 GXV160UA1 GXV160UH2	0.69 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.7 ± 1.5 mm (0.54 ± 0.06 in.)	Idle: 1,700 ± 150 rpm Maximum: 3,200 ± 100 rpm	Decompressor engaged: 490 ± 196 kPa (43 ~ 99 psi) Decompressor disengaged: 979 ± 193 kPa (114 ~ 170 psi)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV270	1.16 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV340 GXV340A2 GXV340K1 GXV340K2 GXV340RT2 GXV340T2 GXV340UA2 GXV340UT2	Without filter change: 1.16 qt. With filter change: 1.48 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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ENGINE	ENGINE OIL CAPACITY (1)	TRANS. OIL CAP. (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GXV390 GXV390A1 GXV390K1 GXV390RT1 GXV390T1 GXV390UA1 GXV390UT1	Without filter change: 1.16 qt. With filter change: 1.48 qt.	—	NGK BP5ES NGK BPR5ES	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	13.2 ± 1.3 mm (0.52 ± 0.05 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	Decompressor engaged: 711 ± 123 kPa (85 ~ 121 psi) @ 600 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GCV530 GCV530R,U	Without filter change: 0.95 qt. With filter change: 1.11 qt.	—	NGK BPR5ES DENSO W16EPR-U	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	18.5 mm (0.73 in.)	Idle: 1,400 +200/-150 rpm Maximum: 3,400 ± 150 rpm	0.6 ~ 0.8 MPa (85 ~ 114 psi) @ 600 rpm	IN: 0.10 ± 0.04 EX: 0.15 ± 0.04
GXV530 GXV530R,U	Without filter change: 0.95 qt. With filter change: 1.37 qt.	—	NGK BPR5ES DENSO W16EPR	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	18.5 mm (0.73 in.)	Idle: 1,400 +200/-150 rpm Maximum: 3,400 ± 150 rpm	0.6 ~ 0.8 MPa (85 ~ 114 psi) @ 600 rpm	IN: 0.10 ± 0.04 mm EX: 0.15 ± 0.04 mm
GXV610	Without filter change: 1.9 qt. With filter change: 2.23 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	686 ± 98 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV620	Without filter change: 1.9 qt. With filter change: 2.23 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	686 ± 98 kPa (85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV610K1 GXV610R1 GXV610U1 GXV620K1 GXV620R1 GXV620U1	Without filter change: 1.8 qt. With filter change: 2.3 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	14.0 mm (0.55 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	(85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm
GXV630R GXV660R GXV690R	Without filter change: 1.8 qt. With filter change: 2.01 qt.	—	NGK ZFR5F	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	15.5 mm (0.61 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm TAE2 Type: 1,950 ± 150 rpm	0.5 ~ 0.7 MPa (5.09 ~ 7.14 kgf/ cm <sup>2</sup> , 73 ~ 102 psi) @ 1,500 min rpm	IN: 0.08 ± 0.02 mm EX: 0.10 ± 0.02 mm
GXV670 GXV670R GXV670U	Without filter change: 2.1 qt. With filter change: 2.6 qt.	—	NGK ZGR5A	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	15.0 mm (0.59 in.)	Idle: 1,400 ± 150 rpm Maximum: 3,400 ± 150 rpm	(85 ~ 114 psi) @ 500 rpm	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm

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**OHV, LIQUID-COOLED, HORIZONTAL-SHAFT, GENERAL PURPOSE ENGINES**

ENGINE	ENGINE OIL CAPACITY (1)	TRANSMISSION OIL CAP. (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE (cold)
GX360K1	Without filter change: 1.16 qt. With filter change: 1.48 qt.	—	NGK BP4HS NGK BPR4HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	13.2 mm (0.52 in.)	Idle: 1,300 rpm Maximum: 3,850 ± 100 rpm	1,177 kPa (171 psi) Maximum No Load: 3,600 rpm	IN/EX: 0.12 ± 0.02 mm

**SIDE-VALVE, HORIZONTAL-SHAFT, AIR-COOLED, GENERAL PURPOSE ENGINES**

ENGINE	ENGINE OIL CAP. (1)	TRANSMISSION OIL CAPACITY (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE
G28 G28K1	0.74 qt.	—	NGK C6H	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.08 in.)	Idle: 1,400 ± 100 rpm Max: 5,000 rpm	696 kPa (101 psi)	IN and EX: 0.05 mm
G35	0.63 qt.	—	NGK B6HS NGK BR6HS	0.7 ~ 0.8 mm (0.028 ~ 0.032 in.)	11.5 mm (0.45 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,600 rpm	520 kPa (75 psi) ± 20%	IN and EX: 0.05 ~ 0.10 mm
G40	0.63 qt.	Reduction unit: 260 cc (8.8 fl. oz.)	NGK B6H	0.7 mm (0.028 in.)	0.5 mm (0.02 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,000 rpm	588 kPa (85 psi)	IN and EX: 0.06 ~ 0.10 mm
G41	0.85 qt.	G41CD: 400 cc (13.5 fl. oz.) G41RD: 300 cc (10.1 fl. oz.)	NGK B4H	0.7 mm (0.028 in.)	2.0 mm (0.8 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi)	IN and EX: 0.07 mm
G42,K1	0.63 qt.	G41CD: 400 cc (13.5 fl. oz.) G41RD: 300 cc (10.1 fl. oz.)	NGK B6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	2.0 mm (0.8 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 1,000 rpm	IN and EX: 0.07 mm
G65	0.87 qt.	1/2 reduction: 260 cc (8.8 fl. oz.) 1/6 reduction: 440 cc (14.9 fl. oz.)	NGK B6HS NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.5 mm (0.77 in.)	Idle: 1,400 ± 100 rpm	392 kPa (57 psi) @ 450 ~ 600 rpm	IN and EX: 0.08 ± 0.03 mm
G80	1.16 qt.	1/2 reduction: 260 cc (8.8 fl. oz.) 1/6 reduction: 440 cc (14.9 fl. oz.)	NGK B6HS NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	19.5 mm (0.77 in.)	Idle: 1,400 ± 100 rpm	392 kPa (57 psi) @ 450 ~ 600 rpm	IN and EX: 0.08 ± 0.03 mm
G100	0.48 qt.	—	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	8.2 mm ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,200 rpm	637 kPa (92 psi) @ 800 rpm	IN and EX: 0.07 ± 0.03 mm
G100K1	0.48 qt.	—	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.0 mm ± 1.3 mm (0.47 ± 0.05 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,200 rpm	637 kPa (92 psi) @ 800 rpm	IN and EX: 0.12 ± 0.04 mm
G100K2	0.48 qt.	—	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	12.0 mm ± 1.3 mm (0.47 ± 0.05 in.)	Idle: 1,400 ± 100 rpm Maximum: 4,200 rpm	558 kPa (81 psi) @ 800 rpm	IN and EX: 0.12 ± 0.04 mm

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ENGINE	ENGINE OIL CAP. (1)	TRANSMISSION OIL CAPACITY (1)	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT HEIGHT	ENGINE SPEED	COMPRESSION	VALVE CLEARANCE
G150 through # 1100542	0.74 qt.	1/6 reduction: 1.59 qt.	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BR4HS-10	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 600 ~ 700 rpm	IN and EX: 0.08 ± 0.04 mm
G150 from # 1100543 through # 1380694	0.74 qt.	1/6 reduction: 1.59 qt.	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS-10	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 600 ~ 700 rpm	IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm
G150 from # 1380695	0.74 qt.	1/6 reduction: 1.59 qt.	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS-10	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 600 ~ 700 rpm	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
G200 through # 1556007	0.74 qt.	1/6 reduction: 1.59 qt.	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 600 ~ 700 rpm	Through engine #1168819: IN and EX: 0.08 ± 0.04 mm From engine #1168820 through #1556007: IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm
G200 from # 1556008	0.74 qt.	1/6 reduction: 1.59 qt.	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 100 rpm Maximum: 3,900 ± 100 rpm	588 kPa (85 psi) @ 600 ~ 700 rpm	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
G300	1.27 qt.	1/2 reduction: 300 cc (10.1 fl. oz.) 1/6 reduction: 150 cc (5.1 fl. oz.)	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS-10	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.2 ± 1.5 mm (0.32 ± 0.06 in.)	Idle: 1,400 ± 150 rpm Maximum No Load: 3,600 rpm	588 kPa (85 psi) @ 500 ~ 600 rpm	Through engine #1115452: IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm From engine #1115453: IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm
G400 G400K1	1.27 qt.	1/2 reduction: 300 cc (10.1 fl. oz.) 1/6 reduction: 150 cc (5.1 fl. oz.)	Magneto ignition: NGK B4H NGK BR4HS CDI: NGK BP4HS-10 NGK BPR4HS-10	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.6 ± 1.5 mm (0.34 ± 0.06 in.)	Idle: 1,400 ± 150 rpm Maximum No Load: 3,600 rpm	588 kPa (85 psi) @ 500 ~ 600 rpm	Through engine #1200000: IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm From engine #1200001: IN: 0.12 ± 0.04 mm EX: 0.15 ± 0.04 mm

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**SIDE-VALVE, VERTICAL-SHAFT, AIR-COOLED, GENERAL PURPOSE ENGINES**

ENGINE	STANDARD SPARK PLUG	SPARK PLUG GAP	FLOAT LEVEL	ENGINE SPEED	ENGINE OIL CAPACITY (1)	COMPRESSION	VALVE CLEARANCE
GV35	NGK B6HS NGK BR6HS	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	11.5 mm (0.45 in.)	Idle: 1,700 rpm (without blade)	0.74 qt.	520 ± 104 kPa (75 ± 15 psi)	IN and EX: 0.08 ± 0.03 mm
GV150 through engine # 2029058	NGK BM4A NGK BMR4A	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.63 qt.	490 kPa (71 psi)	IN and EX: 0.08 ± 0.04 mm
GV150 from engine # 2029059	NGK BMP6A NGK BMPR6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.63 qt.	490 kPa (71 psi)	IN and EX: 0.08 ± 0.03 mm
GV150K1 through engine # 3040714	NGK BMP6A NGK BMPR6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.63 qt.	490 kPa (71 psi)	IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm
GV150K1 from engine # 3040715	NGK BMP6A NGK BMPR6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.63 qt.	490 kPa (71 psi)	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
GV200 through engine # 1026849	NGK BMP6A NGK BMPR6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.74 qt.	490 kPa (71 psi)	IN: 0.08 ± 0.03 mm EX: 0.12 ± 0.03 mm
GV200 from engine # 1026850	NGK BMP6A NGK BMPR6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	6.7 ~ 9.7 mm (0.26 ~ 0.38 in.)	Idle: 1,700 rpm (blade disengaged) 1,400 rpm (blade engaged) Maximum: 3,100 ± 150 rpm	0.74 qt.	588 kPa (85 psi)	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm
GV400	Magneto ignition: NGK BM6A NGK BMR6A CDI: NGK BPM6A NGK BPMP6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.6 ± 1.5 mm (0.34 ± 0.06 in.)	Idle: 1,700 ± 150 rpm (no load) Maximum: 3,550 rpm	1.27 qt.	588 kPa (85 psi)	IN: 0.09 ± 0.03 mm EX: 0.12 ± 0.04 mm
GV400K1	Magneto ignition: NGK BM6A NGK BMR6A CDI: NGK BPM6A NGK BPMP6A	Magneto ignition: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in.) CDI: 0.9 ~ 1.0 mm (0.035 ~ 0.039 in.)	8.6 ± 1.5 mm (0.34 ± 0.06 in.)	Idle: 1,700 ± 150 rpm (no load) Maximum: 3,550 rpm	1.27 qt.	588 kPa (85 psi)	IN: 0.12 ± 0.04 mm EX: 0.20 ± 0.04 mm

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