

TECHNICAL DATA

SI* METRIC INFORMATION GUIDE

BASE UNITS			
DESCRIPTION	UNIT	SYMBOL	
length	meter	m	
mass	kilogram	kg	
force	newton	N	
liquid	liter	L	
temperature	Celsius	°C	
pressure	kilopascal	kPa	
torque	newton•meter	N•m	
speed	kilometer per hour	km/h	
PREFIXES			
PREFIX	SYMBOL	MEANING	VALUE
kilo	k	one thousand	1 000
centi	c	one hundredth	0.01
milli	m	one thousandth	0.001
micro	μ	one millionth	0.000001
CONVERSION FACTORS			
TO CONVERT	TO †	MULTIPLY BY	
in	mm	25.4	
in	cm	2.54	
in ²	cm ²	6.45	
in ³	cm ³	16.39	
ft	m	0.3	
oz	g	28.35	
lb	kg	0.45	
lbf	N	4.4	
lbf•in	N•m	0.11	
lbf•ft	N•m	1.36	
lbf•ft	lbf•in	12	
PSI (lbf/in ²)	kPa	6.89	
imp. oz	U.S. oz	0.96	
imp. oz	mL	28.41	
imp. gal	U.S. gal	1.2	
imp. gal	L	4.55	
U.S. oz	mL	29.57	
U.S. gal	L	3.79	
MPH	km/h	1.61	
Fahrenheit	Celsius	(°F - 32) ÷ 1.8	
Celsius	Fahrenheit	(°C × 1.8) + 32	






* The international system of units abbreviates SI in all languages.

† To obtain the inverse sequence, divide by the given factor. To convert mm to in, divide by 25.4.

NOTE: Conversion factors are rounded off to 2 decimals for easier use.






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		MX Z 380 R FAN (CAN./U.S./EUR.)	MX Z 550 R FAN (CAN./U.S./EUR.)	GRAND TOURING 380 E/R FAN (CAN./U.S./EUR.)		
ENGINE TYPE		377	552	377		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	62.00 (2.441)	76.00 (2.992)	62.00 (2.441)	
	Stroke	mm (in)	61.00 (2.402)	61.00 (2.402)	61.00 (2.402)	
	Displacement	cm ³ (in ³)	368.30 (22.475)	553.40 (33.771)	368.30 (22.475)	
	Compression Ratio	± 0.5	11.20	9.6	11.20	
	Maximum Power Engine Speed ①	± 100 RPM	6800	69500	6800	
	Piston Ring Type	1 st /2 nd	ST/R	ST/R	ST/R	
	Ring End Gap	New	mm (in)	0.2 (.008)	0.4 (.016)	0.2 (.008)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.070 ± 0.016 (.0028 ± .0006)	0.147 ± 0.026 (.0058 ± .0010)	0.070 ± 0.016 (.0028 ± .0006)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.527 (.027)	0.527 (.027)	0.527 (.027)
Wear Limit		mm (in)	1.2 (.4720)	1.2 (.4720)	1.2 (.4720)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	340	340	340	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	2.79 (.110)	2.77 (.109)	2.79 (.110)	
	Trigger Coil ④	Ω	160 – 180	160 – 180	160 – 180	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	6.3 – 7.7	6.3 – 7.7	6.3 – 7.7
	Lighting Coil ④	Ω	.145 – 0.175	.145 – 0.175	.145 – 0.175	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	VM 30-205	VVM 34-591	VM 30-205	
	Main Jet	PTO/MAG	185/185	250/250	185/185	
	Needle Jet		Q-2 (159)	P-8 (159)	Q-2 (159)	
	Pilot Jet		40	40	40	
	Needle Identification — Clip Position	PTO MAG	6CDY1-3	6BCY40-4	6CDY1-3	
	Slide Cut-Away		2.0	2.5	2.0	
	Float Adjustment	± 1 mm (± .040 in)	23.90 (.941)	23.90 (.941)	23.90 (.941)	
	Air or Pilot Screw Adjustment	± 1/16 Turn	N.A.	N.A.	N.A.	
	Idle Speed	± 200 RPM	1650	1650	1650	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Fan	Fan	Fan	
	Axial Fan Belt Adjustment	Deflection	mm (in)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)
		Force	kg (lbf)	5.0 (11.0)	5.0 (11.0)	5.0 (11.0)
	Thermostat Opening Temperature	°C (°F)	N.A.	N.A.	N.A.	
Radiator Cap Opening Pressure	kPa (PSI)	N.A.	N.A.	N.A.		
	ENGINE COLD N _m (lbf-ft)	Drive Pulley Retaining Screw		⑦	⑦	⑦
		Exhaust Manifold Nuts or Bolts		21.5 (16)	21.5 (16)	21.5 (16)
		Magneto Ring Nut		105 (77)	105 (77)	105 (77)
		Crankcase Nuts or Screws	M6	N.A.	N.A.	N.A.
			M8	21.5 (16)	21.5 (16)	21.5 (16)
		Crankcase/Engine Support Nuts or Screws		40.0 (30)	40.0 (30)	40.0 (30)
		Cylinder Head Screws		21.5 (16)	21.5 (16)	21.5 (16)
		Crankcase/Cylinder Nuts or Screws		N.A.	N.A.	N.A.
Axial Fan Shaft Nut		48.0 (35)	48.0 (35)	48.0 (35)		






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		GRAND TOURING 550 E/R FAN (CAN./U.S./EUR.)	LEGEND 380 E/R FAN (CAN./U.S.)	LEGEND 550 E/R FAN (CAN./U.S.)		
ENGINE TYPE		552	377	552		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	76.00 (2.992)	62.00 (2.441)	76.00 (2.992)	
	Stroke	mm (in)	61.00 (2.402)	61.00 (2.402)	61.00 (2.402)	
	Displacement	cm ³ (in ³)	553.40 (33.771)	368.30 (22.475)	553.40 (33.771)	
	Compression Ratio	± 0.5	9.6	11.20	9.6	
	Maximum Power Engine Speed ①	± 100 RPM	6950	6800	6950	
	Piston Ring Type	1 st /2 nd	ST/R	ST/R	ST/R	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.2 (.008)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.147 ± 0.026 (.0058 ± .0010)	0.070 ± 0.016 (.0028 ± .0006)	0.147 ± 0.026 (.0058 ± .0010)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.527 (.027)	0.527 (.027)	0.527 (.027)
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.4720)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	340	340	340	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	2.77 (.109)	2.79 (.110)	2.77 (.109)	
	Trigger Coil ④	Ω	160 – 180	160 – 180	160 – 180	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	6.3 – 7.7	6.3 – 7.7	6.3 – 7.7
	Lighting Coil ④	Ω	.145 – 0.175	.145 – 0.175	.145 – 0.175	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	VM 34-591	VM 30-205	VM 34-591	
	Main Jet	PTO/MAG	250/250	185/185	250/250	
	Needle Jet		P-8 (159)	Q-2 (159)	P-8 (159)	
	Pilot Jet		40	40	40	
	Needle Identification — Clip Position	PTO MAG	6BCY-40-4	6CDY1-3	6BCY-40-4	
	Slide Cut-Away		2.5	2.0	2.5	
	Float Adjustment	± 1 mm (± .040 in)	23.90 (.941)	23.90 (.941)	23.90 (.941)	
	Air or Pilot Screw Adjustment	± 1/16 Turn	N.A.	N.A.	N.A.	
	Idle Speed	± 200 RPM	1650	1650	1650	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Fan	Fan	Fan	
	Axial Fan Belt Adjustment	Deflection	mm (in)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)
		Force	kg (lbf)	5.0 (11.0)	5.0 (11.0)	5.0 (11.0)
	Thermostat Opening Temperature	°C (°F)	N.A.	N.A.	N.A.	
Radiator Cap Opening Pressure	kPa (PSI)	N.A.	N.A.	N.A.		
	ENGINE COLD N·m (lb·ft)	Drive Pulley Retaining Screw		⑦	⑦	⑦
		Exhaust Manifold Nuts or Bolts		21.5 (16)	21.5 (16)	21.5 (16)
		Magneto Ring Nut		105 (77)	105 (77)	105 (77)
		Crankcase Nuts or Screws	M6	N.A.	N.A.	N.A.
			M8	21.5 (16)	21.5 (16)	21.5 (16)
		Crankcase/Engine Support Nuts or Screws		40.0 (30)	40.0 (30)	40.0 (30)
		Cylinder Head Screws		21.5 (16)	21.5 (16)	21.5 (16)
		Crankcase/Cylinder Nuts or Screws		N.A.	N.A.	N.A.
Axial Fan Shaft Nut		48.0 (35)	48.0 (35)	48.0 (35)		






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		SKANDIC SPORT 500 R FAN (CAN./U.S.)	SUMMIT 550 R FAN (CAN./U.S.)	SUMMIT 550 R FAN (EUR.)		
ENGINE TYPE		503	552	552		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	72.00 (2.835)	76.00 (2.992)	76.00 (2.992)	
	Stroke	mm (in)	61.00 (2.402)	61.00 (2.402)	61.00 (2.402)	
	Displacement	cm ³ (in ³)	496.70 (30.311)	553.40 (33.771)	553.40 (33.771)	
	Compression Ratio	± 0.5	10.80	9.6	9.6	
	Maximum Power Engine Speed ①	± 100 RPM	6700	6950	6950	
	Piston Ring Type	1 st /2 nd	ST/R	ST/R	ST/R	
	Ring End Gap	New	mm (in)	0.2 (.008)	0.4 (.0157)	0.4 (.0157)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.080 ± 0.016 (.0031 ± .0006)	0.147 ± 0.026 (.0058 ± .0010)	0.070 ± 0.016 (.0028 ± .0006)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.527 (.027)	0.527 (.027)	0.527 (.027)
		Wear Limit	mm (in)	1.2 (.4720)	1.2 (.4720)	1.0 (.0394)
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	300	340	340	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	2.29 (.090)	2.77 (.109)	2.77 (.109)	
	Trigger Coil ④	Ω	160 – 180	160 – 180	160 – 180	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	5.1 – 6.1	6.3 – 7.7	6.3 – 7.7
	Lighting Coil ④	Ω	0.123 – 0.153	0.145 – 0.175	0.145 – 0.175	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	VM 34-576	VM 34-590	VM 34-591	
	Main Jet	PTO/MAG	210/210	210/210	250/250	
	Needle Jet		P-4 (159)	P-8 (159)	P-8 (159)	
	Pilot Jet		40	40	40	
	Needle Identification — Clip Position	PTO MAG	6AFY5-4	6BCY40-3	6BCY40-3	
	Slide Cut-Away		2.0	2.5	2.5	
	Float Adjustment	± 1 mm (± .040 in)	23.90 (.941)	23.90 (.941)	23.90 (.941)	
	Air or Pilot Screw Adjustment	± 1/16 Turn	N.A.	N.A.	N.A.	
	Idle Speed	± 200 RPM	1650	1650	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Fan	Fan	Fan	
	Axial Fan Belt Adjustment	Deflection	mm (in)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)	9.5 ± 0.5 (.374 ± .020)
		Force	kg (lbf)	5.0 (11.023)	5.0 (11.0)	5.0 (11.0)
	Thermostat Opening Temperature	°C (°F)	N.A.	N.A.	N.A.	
Radiator Cap Opening Pressure	kPa (PSI)	N.A.	N.A.	N.A.		
	ENGINE COLD N _m (lb-ft)	Drive Pulley Retaining Screw	⑦	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	21.5 (16)	21.5 (16)	21.5 (16)	
		Magneto Ring Nut	105 (77)	105 (77)	105 (77)	
		Crankcase Nuts or Screws	M6	N.A.	N.A.	N.A.
			M8	21.5 (16)	21.5 (16)	21.5 (16)
		Crankcase/Engine Support Nuts or Screws	40.0 (30)	40.0 (30)	40.0 (30)	
		Cylinder Head Screws	21.5 (16)	21.5 (16)	21.5 (16)	
		Crankcase/Cylinder Nuts or Screws	N.A.	N.A.	N.A.	
Axial Fan Shaft Nut	48.0 (35)	48.0 (35)	48.0 (35)			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		MX Z 500 R TRAIL (CAN./U.S.)	MX Z 500 E/R ADRENALINE (CAN./U.S.)	MX Z 500 R ADRENALINE (EUR.)		
ENGINE TYPE		493	493	493		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	69.50 (2.736)	69.50 (2.736)	69.50 (2.736)	
	Stroke	mm (in)	65.80 (2.591)	65.80 (2.591)	65.80 (2.591)	
	Displacement	cm ³ (in ³)	499.30 (30.47)	499.30 (30.47)	499.30 (30.47)	
	Compression Ratio	± 0.5	12.0	12.0	12.0	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.100 ± 0.016 (.0039 ± .0006)	0.100 ± 0.016 (.0039 ± .0006)	
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.0472)		
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360		
	Ignition Type		CDI	CDI		
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES		
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ③	0.45 (.018) ③	0.45 (.018) ③	
	Ignition Timing BTDC ③	mm (in)	3.00 (.118)	3.00 (.118)	3.00 (.118)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	
		High Speed	Ω	N.A.	N.A.	
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	
Secondary		kΩ	N.A.	N.A.		
	Carburetor Type	PTO/MAG	TM 40-B229	TM 40-B229		
	Main Jet	PTO/MAG	500/500	500/500		
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9HGY1-58 ⑥	9HGY1-58 ⑥	9HGY1-58 ⑥	
	Slide Cut-Away		2.0	2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	3.0	3.0	3.0	
	Idle Speed	± 200 RPM	1600	1600	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Liquid	Liquid		
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	
		Force	kg (lbf)	N.A.	N.A.	
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N ₄ m (lb-ft)	Drive Pulley Retaining Screw	⑦	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	29 (21)	29 (21)	29 (21)	
Axial Fan Shaft Nut	N.A.	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		MX Z 600 R TRAIL (CAN./U.S.)	MX Z 600 HO/E/R ADRENALINE (CAN./U.S.)	MX Z 600 HO/E/R RENEGADE (CAN./U.S./EUR.)		
ENGINE TYPE		593	593	593		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	76.00 (2.992)	72.00 (2.835)	72.00 (2.835)	
	Stroke	mm (in)	65.8 (2.591)	73.0 (2.874)	73.0 (2.874)	
	Displacement	cm ³ (in ³)	597.00 (36.43)	594.40 (36.27)	594.40 (36.27)	
	Compression Ratio	± 0.5	12.0	12.25	12.25	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.045 (.0018)	0.045 (.0018)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.120 ± 0.016 (.0047 ± .0006)	0.105 ± 0.023 (.0041 ± .0009)	0.105 ± 0.023 (.0041 ± .0009)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	0.39 (.0154)
		Wear Limit	mm (in)	1.2 (.0472)	1.2 (.0472)	1.2 (.0472)
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360	360	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ③	0.45 (.018) ③	0.45 (.018) ③	
	Ignition Timing BTDC ③	mm (in)	3.00 (.118)	2.79 (.110)	2.79 (.110)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B232	TM 40-B235	TM 40-B235	
	Main Jet	PTO/MAG	500/500	380/380	380/380	
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		20	17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9HG1-58 ⑥	9DH113-58 ⑥	9DH113-58 ⑥	
	Slide Cut-Away		2.0	1.6	1.6	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1600	1600	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Liquid	Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N _m (lbf-ft)	Drive Pulley Retaining Screw	⑦	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	29 (21)	29 (21)	29 (21)	
Axial Fan Shaft Nut	N.A.	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		MX Z 700/E/R ADRENALINE (CAN./U.S.)	MX Z 800/E/R ADRENALINE (CAN./U.S.)	MX Z 800/E/R RENEGADE (CAN./U.S./EUR.)	
ENGINE TYPE		693	793	793	
	Number of Cylinders	2	2	2	
	Bore	mm (in)	78.00 (3.071)	82.00 (32.228)	82.00 (32.228)
	Stroke	mm (in)	73.00 (2.874)	75.70 (2.980)	75.70 (2.980)
	Displacement	cm ³ (in ³)	697.70 (42.58)	799.20 (48.77)	799.20 (48.77)
	Compression Ratio	± 0.5	12.0	12.0	12.0
	Maximum Power Engine Speed ①	± 100 RPM	8000	7850	7850
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.05 (.0020)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.115 ± 0.013 (.0045 ± .0005)	0.125 ± 0.023 (.0049 ± .0009)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)	
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)	
	Magneto Generator Output	W	360	360	
	Ignition Type		CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ③	0.45 (.018) ③	
	Ignition Timing BTDC ③	mm (in)	3.37 (.133)	2.92 (.115)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B241	TM 40-B244	
	Main Jet	PTO/MAG	510N/510N	520N/520N	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9ZLY3-58 ⑥	9XDY1-59 ⑥	
	Slide Cut-Away		2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1.0	
	Idle Speed	± 200 RPM	1500	1500	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	
Gas/Oil Ratio		Injection	Injection		
	Type		Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)		
	ENGINE COLD N ₄ m (lbf-ft)	Drive Pulley Retaining Screw	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)
			M8	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	40 (29)	40 (29)	
Axial Fan Shaft Nut	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		SUMMIT 600 HO/R ADRENALINE (CAN./U.S./EUR.)	SUMMIT 700/R ADRENALINE (CAN./U.S.)	SUMMIT 700/R HIGHMARK (CAN./U.S.)	
ENGINE TYPE		593	693	693	
	Number of Cylinders	2	2	2	
	Bore	mm (in)	72.00 (2.835)	78.00 (3.071)	78.00 (3.071)
	Stroke	mm (in)	73.0 (2.874)	73.0 (2.874)	73.0 (2.874)
	Displacement	cm ³ (in ³)	594.40 (36.27)	697.70 (42.58)	697.70 (42.58)
	Compression Ratio	± 0.5	12.25	12.0	12.0
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	8000
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.045 (.0018)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.105 ± 0.023 (.0041 ± .0009)	0.115 ± 0.013 (.0045 ± .0005)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)	
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)	
	Magneto Generator Output	W	360	360	
	Ignition Type		CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ③	0.45 (.018) ③	
	Ignition Timing BTDC ③	mm (in)	2.27 (.089)	3.37 (.133)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B265	TM 40-B259	
	Main Jet	PTO/MAG	380/380	500/500	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9DH112-58-3 ⑥	9ZLY7-58-3 ⑥	
	Slide Cut-Away		1.6	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1600	1500	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	
	Type		Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	
		Force	kg (lbf)	N.A.	
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)		
	ENGINE COLD N _m (lbf-ft)	Drive Pulley Retaining Screw	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)
			M8	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	29 (21)	40 (29)	
Axial Fan Shaft Nut	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		SUMMIT 700 R X (CAN./U.S.)	SUMMIT 800 HO/R ADRENALINE (CAN./U.S.)	SUMMIT 800 HO/R X (CAN./U.S.)		
ENGINE TYPE		693	793	793		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	78.00 (3.071)	82.00 (3.228)	82.00 (3.228)	
	Stroke	mm (in)	73.0 (2.874)	75.70 (2.980)	75.70 (2.980)	
	Displacement	cm ³ (in ³)	697.70 (42.58)	799.20 (48.77)	799.20 (48.77)	
	Compression Ratio	± 0.5	12.0	13.3	13.3	
	Maximum Power Engine Speed ①	± 100 RPM	8000	7850	7850	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.05 (.0020)	0.05 (.0020)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.115 ± 0.013 (.0045 ± .0005)	0.125 ± 0.023 (.0049 ± .0009)	0.125 ± 0.023 (.0049 ± .0009)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	0.39 (.0154)
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.0472)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360	360	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ③	0.45 (.018) ③	0.45 (.018) ③	
	Ignition Timing BTDC ③	mm (in)	3.37 (.133)	2.37 (.093)	2.37 (.093)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B259	TM 40-B247	TM 40-B247	
	Main Jet	PTO/MAG	500/500	430/430	430/430	
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9ZLY7-58-3 ⑥	9DHI12-58-3 ⑥	9DHI12-58-3 ⑥	
	Slide Cut-Away		2.0	2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1500	1500	1500	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
Gas/Oil Ratio		Injection	Injection	Injection		
	Type		Liquid	Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N ₄ m (lb-ft)	Drive Pulley Retaining Screw	⑦	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	40 (29)	40 (29)	40 (29)	
Axial Fan Shaft Nut	N.A.	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		SUMMIT 800 HO/R HIGHMARK (CAN./U.S.)	SUMMIT 800 HO/R HIGHMARK X (CAN./U.S.)	SUMMIT 800 HO/R HIGHMARK XTREME (CAN./U.S.)		
ENGINE TYPE		793	793	793		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	82.00 (3.228)	82.00 (3.228)	82.00 (3.228)	
	Stroke	mm (in)	75.70 (2.980)	75.70 (2.980)	75.70 (2.980)	
	Displacement	cm ³ (in ³)	799.20 (48.77)	799.20 (48.77)	799.20 (48.77)	
	Compression Ratio	± 0.5	13.3	13.3	13.3	
	Maximum Power Engine Speed ①	± 100 RPM	7850	7850	7850	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.05 (.0020)	0.05 (.0020)	0.05 (.0020)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.125 ± 0.023 (.0049 ± .0009)	0.125 ± 0.023 (.0049 ± .0009)	0.125 ± 0.023 (.0049 ± .0009)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	0.39 (.0154)
		Wear Limit	mm (in)	1.2 (.0472)	1.2 (.0472)	1.2 (.0472)
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360	360	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ⑧	0.45 (.018) ⑧	0.45 (.018) ⑧	
	Ignition Timing BTDC ③	mm (in)	2.37 (.093)	2.37 (.093)	2.37 (.093)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.	
	Secondary	kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B247	TM 40-B247	TM 40-B247	
	Main Jet	PTO/MAG	430/430	430/430	430/430	
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9DHI12-58-3 ⑥	9DHI12-58-3 ⑥	9DHI12-58-3 ⑥	
	Slide Cut-Away		2.0	2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1500	1500	1500	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Liquid	Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N·m (lb·ft)	Drive Pulley Retaining Screw		⑦	⑦	⑦
		Exhaust Manifold Nuts or Bolts		22 (16)	22 (16)	22 (16)
		Magneto Ring Nut		125 (92)	125 (92)	125 (92)
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws		35 (26)	35 (26)	35 (26)
		Cylinder Head Screws		29 (21)	29 (21)	29 (21)
		Crankcase/Cylinder Nuts or Screws		40 (29)	40 (29)	40 (29)
Axial Fan Shaft Nut		N.A.	N.A.	N.A.		






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		LEGEND 500 E/R SPORT (CAN./U.S.)	LEGEND 600 E/R SE (CAN./U.S.)	LEGEND 600 E/R SPORT (CAN./U.S.)		
ENGINE TYPE		493	593	593		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	69.50 (2.736)	76.00 (2.992)	76.00 (2.992)	
	Stroke	mm (in)	65.80 (2.591)	65.80 (2.591)	65.80 (2.591)	
	Displacement	cm ³ (in ³)	499.30 (30.469)	597.00 (36.431)	597.00 (36.431)	
	Compression Ratio	± 0.5	12.0	12.0	12.0	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.100 ± 0.016 (.0039 ± .0006)	0.120 ± 0.016 (.0047 ± .0006)	0.120 ± 0.016 (.0047 ± .0006)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	0.39 (.0154)
Wear Limit		mm (in)	1.2 (.0472)	1.2 (.0472)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360	360	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ECS	NGK BR9ECS	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018) ⑧	0.45 (.018) ⑧	
	Ignition Timing BTDC ③	mm (in)	3.00 (.118)	3.00 (.118)	3.00 (.118)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
	High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.
Secondary		kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B229	TM 40-B232	TM 40-B232	
	Main Jet	PTO/MAG	500/500	500/500	500/500	
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	20.0	20.0	
	Needle Identification — Clip Position	PTO MAG	9HGY1-58 ⑥	9HGY1-58 ⑥	9HGY1-58 ⑥	
	Slide Cut-Away		2.0	2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	3.0	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1600	1600	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Liquid	Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N ₄ m (lb-ft)	Drive Pulley Retaining Screw	⑦	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws	35 (26)	35 (26)	35 (26)	
		Cylinder Head Screws	29 (21)	29 (21)	29 (21)	
		Crankcase/Cylinder Nuts or Screws	29 (21)	40 (29)	40 (29)	
Axial Fan Shaft Nut	N.A.	N.A.	N.A.			






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		LEGEND 700 E/R SE (CAN./U.S.)	LEGEND 700 E/R SPORT (CAN./U.S.)	GRAND TOURING 500 E/R SPORT (CAN./U.S./EUR.)		
ENGINE TYPE		693	693	493		
	Number of Cylinders	2	2	2		
	Bore	mm (in)	78.00 (3.071)	78.00 (3.071)	69.50 (2.736)	
	Stroke	mm (in)	73.00 (2.874)	73.00 (2.874)	65.80 (2.591)	
	Displacement	cm ³ (in ³)	697.70 (42.58)	697.70 (42.58)	499.30 (30.469)	
	Compression Ratio	± 0.5	12.0	12.0	12.0	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)	0.4 (.016)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)	1.0 (.039)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)	0.04 (.0016)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)	0.2 (.0079)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	mm ± (in)	0.115 ± 0.013 (.0045 ± .0005)	0.115 ± 0.013 (.0045 ± .0005)	0.100 ± 0.016 (.0039 ± .0006)
		Wear Limit	mm (in)	0.20 (.0079)	0.20 (.0079)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)	0.39 (.0154)	0.39 (.0154)
		Wear Limit	mm (in)	1.2 (.0472)	1.2 (.0472)	1.2 (.0472)
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)	0.3 (.012)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	360	360	360	
	Ignition Type		CDI	CDI	CDI	
	Spark Plug Make and Type		NGK BR9ECS	NGK BR9ECS	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018) ⑧	0.45 (.018) ⑧	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	3.37 (.133)	3.37 (.133)	3.00 (.118)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	N.A.	N.A.	N.A.
		High Speed	Ω	N.A.	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0	
High Tension Coil ④	Primary	Ω	N.A.	N.A.	N.A.	
	Secondary	kΩ	N.A.	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B241	TM 40-B241	TM 40-B229	
	Main Jet	PTO/MAG	510N/510N	510N/510N	500/500	
	Needle Jet		P-0 ⑤	P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9ZLY3-58 ⑥	9ZLY3-58 ⑥	9HGY1-58 ⑥	
	Slide Cut-Away		2.0	2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	3.0	
	Idle Speed	± 200 RPM	1500	1500	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	Unleaded/87	
	Gas/Oil Ratio		Injection	Injection	Injection	
	Type		Liquid	Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.	N.A.	N.A.
		Force	kg (lbf)	N.A.	N.A.	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	90 (13)		
	ENGINE COLD N·m (lb·ft)	Drive Pulley Retaining Screw		⑦	⑦	⑦
		Exhaust Manifold Nuts or Bolts		22 (16)	22 (16)	22 (16)
		Magneto Ring Nut		125 (92)	125 (92)	125 (92)
		Crankcase Nuts or Screws	M6	9 (7)	9 (7)	9 (7)
			M8	29 (21)	29 (21)	29 (21)
		Crankcase/Engine Support Nuts or Screws		35 (26)	35 (26)	35 (26)
		Cylinder Head Screws		29 (21)	29 (21)	29 (21)
		Crankcase/Cylinder Nuts or Screws		40 (29)	40 (29)	40 (29)
Axial Fan Shaft Nut		N.A.	N.A.	N.A.		






Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		GRAND TOURING 600 E/R SE (CAN./U.S./EUR.)	GRAND TOURING 600 E/R SPORT (CAN./U.S.)		
ENGINE TYPE		593	593		
	Number of Cylinders	2	2		
	Bore	mm (in)	76.00 (2.992)	76.00 (2.992)	
	Stroke	mm (in)	65.8 (2.591)	65.8 (2.591)	
	Displacement	cm ³ (in ³)	597.00 (36.431)	597.00 (36.431)	
	Compression Ratio	± 0.5	12.0	12.0	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	
	Ring End Gap	New Wear Limit	mm (in) mm (in)	0.4 (.016) 1.0 (.039)	0.4 (.016) 1.0 (.039)
	Ring/Piston Groove Clearance	New Wear Limit	mm (in) mm (in)	0.04 (.0016) 0.2 (.0079)	0.04 (.0016) 0.2 (.0079)
	Piston/Cylinder Wall Clearance	New Wear Limit	mm ± (in) mm (in)	0.120 ± 0.016 (.0047 ± .0006) 0.20 (.0079)	0.120 ± 0.016 (.0047 ± .0006) 0.20 (.0079)
	Connecting Rod Big End Axial Play	New Wear Limit	mm (in) mm (in)	0.39 (.0154) 1.2 (.0472)	0.39 (.0154) 1.2 (.0472)
	Maximum Crankshaft End-play ②		mm (in)	0.3 (.012)	0.3 (.012)
	Maximum Crankshaft Deflection at PTO		mm (in)	0.06 (.0024)	0.06 (.0024)
		Magneto Generator Output	W	360	360
Ignition Type			CDI	CDI	
Spark Plug Make and Type			NGK BR9ECS	NGK BR9ECS	
Spark Plug Gap		± 0.05 mm (± .002 in)	0.45 (.018) ⑧	0.45 (.018) ⑧	
Ignition Timing BTDC ③		mm (in)	3.00 (.118)	3.00 (.118)	
Trigger Coil ④		Ω	190 – 300	190 – 300	
Generating Coil ④		Low Speed High Speed	Ω Ω	N.A. N.A.	N.A. N.A.
Lighting Coil ④			Ω	0.1 – 1.0	0.1 – 1.0
High Tension Coil ④		Primary Secondary	Ω kΩ	N.A. N.A.	N.A. N.A.
		Carburetor Type	PTO/MAG	TM 40-B232	TM 40-B232
	Main Jet	PTO/MAG	500/500	500/500	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		20.0	20.0	
	Needle Identification — Clip Position	PTO MAG	9HGY1-58 ⑥	9HGY1-58 ⑥	
	Slide Cut-Away		2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1600	1600	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	
Gas/Oil Ratio		Injection	Injection		
	Type		Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection Force	mm (in) kg (lbf)	N.A. N.A.	N.A. N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	
	Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	
	ENGINE COLD N _{EM} (lbf-ft)	Drive Pulley Retaining Screw	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6 M8	9 (7) 29 (21)	9 (7) 29 (21)
		Crankcase/Engine Support Nuts or Screws		35 (26)	35 (26)
		Cylinder Head Screws		29 (21)	29 (21)
		Crankcase/Cylinder Nuts or Screws		40 (29)	40 (29)
		Axial Fan Shaft Nut		N.A.	N.A.





Section 10 TECHNICAL DATA

Subsection 02 (ENGINES)

VEHICLE MODEL		GRAND TOURING 700 E/R SPORT (CAN./U.S.)	GRAND TOURING 700 E/R SE (CAN./U.S.)		
ENGINE TYPE		693	693		
	Number of Cylinders	2	2		
	Bore	mm (in)	78.00 (3.071)	78.00 (3.071)	
	Stroke	mm (in)	73.00 (2.874)	73.00 (2.874)	
	Displacement	cm ³ (in ³)	697.70 (42.576)	697.70 (42.576)	
	Compression Ratio	± 0.5	12.0	12.0	
	Maximum Power Engine Speed ①	± 100 RPM	8000	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	ST/N.A.	
	Ring End Gap	New Wear Limit	mm (in) mm (in)	0.4 (.016) 1.0 (.039)	0.4 (.016) 1.0 (.039)
	Ring/Piston Groove Clearance	New Wear Limit	mm (in) mm (in)	0.04 (.0016) 0.2 (.0079)	0.04 (.0016) 0.2 (.0079)
	Piston/Cylinder Wall Clearance	New Wear Limit	mm ± (in) mm (in)	0.115 ± 0.013 (.0045 ± .0005) 0.20 (.0079)	0.115 ± 0.013 (.0045 ± .0005) 0.20 (.0079)
	Connecting Rod Big End Axial Play	New Wear Limit	mm (in) mm (in)	0.39 (.0154) 1.2 (.0472)	0.39 (.0154) 1.2 (.0472)
	Maximum Crankshaft End-play ②		mm (in)	0.3 (.012)	0.3 (.012)
	Maximum Crankshaft Deflection at PTO		mm (in)	0.06 (.0024)	0.06 (.0024)
		Magneto Generator Output	W	360	360
Ignition Type			CDI	CDI	
Spark Plug Make and Type			NGK BR9ECS	NGK BR9ECS	
Spark Plug Gap		± 0.05 mm (± .002 in)	0.45 (.018) ⑧	0.45 (.018) ⑧	
Ignition Timing BTDC ③		mm (in)	3.37 (.133)	3.37 (.133)	
Trigger Coil ④		Ω	190 – 300	190 – 300	
Generating Coil ④		Low Speed High Speed	Ω Ω	N.A. N.A.	N.A. N.A.
Lighting Coil ④			Ω	0.1 – 1.0	0.1 – 1.0
High Tension Coil ④	Primary	Ω	N.A.	N.A.	
	Secondary	kΩ	N.A.	N.A.	
	Carburetor Type	PTO/MAG	TM 40-B241	TM 40-B241	
	Main Jet	PTO/MAG	510N/510N	510N/510N	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	
	Needle Identification — Clip Position	PTO MAG	9ZLY3-58 ⑥	9ZLY3-58 ⑥	
	Slide Cut-Away		2.0	2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	1-1/2	
	Idle Speed	± 200 RPM	1500	1500	
	Gas Type/Pump Octane Number		Unleaded/87	Unleaded/87	
Gas/Oil Ratio		Injection	Injection		
	Type		Liquid	Liquid	
	Axial Fan Belt Adjustment	Deflection Force	mm (in) kg (lbf)	N.A. N.A.	N.A. N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	42 (108)	
	Radiator Cap Opening Pressure	kPa (PSI)	90 (13)	90 (13)	
	ENGINE COLD N·m (lbf·ft)	Drive Pulley Retaining Screw	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	22 (16)	22 (16)	
		Magneto Ring Nut	125 (92)	125 (92)	
		Crankcase Nuts or Screws	M6 M8	9 (7) 29 (21)	9 (7) 29 (21)
		Crankcase/Engine Support Nuts or Screws		35 (26)	35 (26)
		Cylinder Head Screws		29 (21)	29 (21)
		Crankcase/Cylinder Nuts or Screws		40 (29)	40 (29)
		Axial Fan Shaft Nut		N.A.	N.A.




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 380 R FAN (CAN./U.S.)	MX Z 380 R FAN (EUR.)	MX Z 550 R FAN (CAN./U.S.)			
ENGINE TYPE		377	377	552			
	Chain Drive Ratio		19/43	19/43	22/43		
	Chain	Pitch	in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 72/11	Silent 72/11	Silent 74/11	
	Drive Pulley	Type of Drive Pulley		Bombardier Lite	Bombardier Lite	Bombardier Lite	
		Ramp Identification and Roller Pin Type		N.A.	N.A.	N.A.	
		Calibration Screw Position or Calibration Part ①		1181, C: qty 1, S21: qty 1	1181, C: qty 1, S21: qty 1	417 128 604	
		Spring Color		Blue/Green	Blue/Green	Violet/Yellow	
		Spring Length		mm (in)	–	–	
		Clutch Engagement		± 100 RPM	3600	3600	3500
	Driven Pulley	Type		Formula RER	Formula RER	Formula RER	
		Spring Preload		± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.
		Cam Angle		Degree	44	44	50/47
	Pulley Distance	Z		± 0.5 mm (± .020 in)	26.0 (1.024)	26.0 (1.024)	26.0 (1.024)
		Offset	X		± 0.5 mm (± .020 in)	33.4 (1.315)	33.4 (1.315)
			Y – X	MIN. – MAX.	mm (in)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)
	Drive Belt Part Number (P/N)			415 060 600	415 060 600	415 060 600	
	Drive Belt Width (wear limit)		mm (in)	32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
	Drive Belt Adjustment	Deflection		± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)
		Force ③		kg (lbf)	11.34 (25)	11.34 (25)	11.34 (25)
	Track	Width		mm (in)	381 (15.0)	381 (15.0)	381 (15.0)
		Length		mm (in)	3074 (121)	3074 (121)	3455 (136)
		Profile Height		mm (in)	18.4 (.724)	25.4 (1.00)	22.34 (.88)
		Adjustment	Deflection		mm (in)	35 – 40 (1.378-1.575)	30 – 35 (1.181 – 1.378)
Force ④			kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track			SC-10	SC-10	SC-10	
	Ski			ADSA	ADSA	ADSA	
	Length		mm (in)	2766 (1108.9)	2766 (1108.9)	2766 (1108.9)	
	Width		mm (in)	1144 (45.0)	1144 (45.0)	1213 (47.8)	
	Height		mm (in)	1130 (44.5)	1130 (44.5)	1130 (44.5)	
	Ski Stance (carbide to carbide)		mm (in)	1080 (42.5)	1080 (42.5)	1080 (42.5)	
	Toe-out and Camber		mm (in) degree	3 (1/8) 0	3 (1/8) 0	3 (1/8) 0	
	Mass (dry)		kg (lb)	191 (420)	191 (420)	200 (440)	
	Ground Contact Area		cm ² (in ²)	6477 (1004)	6477 (1004)	6477 (1004)	
	Ground Contact Pressure		kPa (PSI)	2.89 (.419)	2.89 (.419)	3.03 (.439)	
	Frame Material			Aluminum	Aluminum	Aluminum	
	Bottom Pan Material			Impact Copolymer	Impact Copolymer	Impact Copolymer	
	Hood Material			Surlyn ⑤	Surlyn ⑤	Surlyn ⑤	
	Battery		V/A•h	N.A.	N.A.	N.A.	
	Headlight		W	H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight		W	8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs		W	2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs		W	N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid		A	N.A.	N.A.	N.A.
		Fuel Level Sensor		A	N.A.	N.A.	N.A.
	Fuel Tank		L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox		mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ②		L (U.S. oz)	N.A.	N.A.	N.A.	
	Injection Oil Reservoir		L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 550 R FAN (EUR.)	GRAND TOURING 380 E/R FAN (CAN./U.S.)	GRAND TOURING 380 E/R FAN (EUR.)	
ENGINE TYPE		552	377	377	
Chain Drive Ratio		22/43	19/43	18/43	
Chain	Pitch	in 3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/11	Silent 72/11	Silent 72/11	
Drive Pulley	Type of Drive Pulley	Bombardier Lite	Bombardier Lite	Bombardier Lite	
	Ramp Identification and Roller Pin Type	N.A.	N.A.	N.A.	
	Calibration Screw Position or Calibration Part ①	417 128 604	1181, C: qty 1, S21: qty 1	1181, C: qty 1, S21: qty 1	
	Spring Color	Violet/Yellow	Blue/Green	Blue/Green	
	Spring Length	mm (in) –	–	–	
	Clutch Engagement	± 100 RPM 3500	3600	3600	
Driven Pulley	Type	Formula RER	Formula RER	Formula RER	
	Spring Preload	± 0.7 kg (± 1.5 lb) N.A.	N.A.	N.A.	
	Cam Angle	Degree 50/47	44	44	
Pulley Distance	Z	± 0.5 mm (± .020 in) 26.0 (1.024)	26.0 (1.024)	26.0 (1.024)	
	X	± 0.5 mm (± .020 in) 33.4 (1.315)	33.4 (1.315)	33.4 (1.315)	
Offset	Y – X	mm (in) 1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)	
	MIN. – MAX.	mm (in)			
Drive Belt Part Number (P/N)		415 060 600	415 060 600	415 060 600	
Drive Belt Width (wear limit)		mm (in) 32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③	kg (lbf) 11.34 (25)	11.34 (25)	11.34 (25)	
Track	Width	mm (in) 381 (15.0)	381 (15.0)	381 (15.0)	
	Length	mm (in) 3455 (136)	3455 (136)	3455 (136)	
	Profile Height	mm (in) 25.4 (1.00)	18.4 (.724)	22.3 (.880)	
	Adjustment	Deflection	mm (in) 30 – 35 (1.181 – 1.378)	35 – 40 (1.378-1.575)	30 – 35 (1.181 – 1.378)
		Force ④	kg (lbf) 7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10	SC-10 136	SC-10 136	
	Ski	ADSA	ADSA	ADSA	
	Length	mm (in) 2766 (1108.9)	3034 (119.449)	3034 (119.449)	
	Width	mm (in) 1213 (47.8)	1144 (45.0)	1144 (45.0)	
	Height	mm (in) 1130 (44.5)	1409 (55.472)	1409 (55.472)	
	Ski Stance (carbide to carbide)	mm (in) 1080 (42.5)	1080 (42.5)	1080 (42.5)	
	Toe-out and Camber	mm (in) 3 (1/8)	3 (1/8)	3 (1/8)	
		degree 0	0	0	
	Mass (dry)	kg (lb) 200 (440)	218 (479)	218 (479)	
	Ground Contact Area	cm² (in²) 6477 (1004)	7162.8 (1110)	7162.8 (1110)	
	Ground Contact Pressure	kPa (PSI) 3.03 (.439)	2.99 (.434)	2.99 (.434)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact Copolymer	Impact Copolymer	Impact Copolymer	
Hood Material	Surlyn ⑤	Surlyn ⑤	Surlyn ⑤		
	Battery	V/A•h N.A.	12/18	12/18	
	Headlight	W H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight	W 8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs	W 2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs	W N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid	A N.A.	30	30
		Fuel Level Sensor	A N.A.	.25	.25
	Fuel Tank	L (U.S. gal) 37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox	mL (U.S. oz) 250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ②	L (U.S. oz) N.A.	N.A.	N.A.	
	Injection Oil Reservoir	L (U.S. oz) 3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		GRAND TOURING 550 E/R FAN (CAN./U.S.)	GRAND TOURING 550 R FAN (EUR.)	LEGEND 380 E/R FAN (CAN./U.S.)			
ENGINE TYPE		552		377			
	Chain Drive Ratio		20/43	20/43	19/43		
	Chain	Pitch	in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 74/11	Silent 74/11	Silent 72/11	
	Drive Pulley	Type of Drive Pulley		Bombardier Lite	Bombardier Lite	Bombardier Lite	
		Ramp Identification and Roller Pin Type		N.A.	N.A.	N.A.	
		Calibration Screw Position or Calibration Part ①		417 128 603	417 128 603	1181, C: qty 1, S21: qty 1	
		Spring Color		Violet/Green	Violet/Green	Violet (Blue/Green)	
		Spring Length		mm (in)	N.A.	N.A.	
		Clutch Engagement		± 100 RPM	3300	3600	
	Driven Pulley	Type		FORMULA RER	FORMULA RER	Formula RER	
		Spring Preload		± 0.7 kg (± 1.5 lb)	N.A.	N.A.	
		Cam Angle		Degree	50/47	50/47	44
	Pulley Distance	Z	± 0.5 mm (± .020 in)	26.0 (1.024)	26.0 (1.024)	26.0 (1.024)	
		X	± 0.5 mm (± .020 in)	33.4 (1.315)	33.4 (1.315)	33.4 (1.315)	
	Offset	Y - X	MIN. - MAX.	mm (in)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)
		Drive Belt Part Number (P/N)		415 060 600	415 060 600	415 060 600	
	Drive Belt Width (wear limit)		mm (in)	32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
	Drive Belt Adjustment	Deflection	± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
		Force ③	kg (lbf)	11.34 (25)	11.34 (25)	11.34 (25)	
	Track	Width		mm (in)	381 (15.0)	381 (15.0)	381 (15.0)
		Length		mm (in)	3455 (136)	3455 (136)	3074 (121)
		Profile Height		mm (in)	22.3 (.880)	25.4 (1.00)	18.40 (.724)
		Adjustment	Deflection	mm (in)	35 - 40 (1.378 - 1.575)	30 - 35 (1.181 - 1.378)	35 - 40 (1.378 - 1.575)
			Force ④	kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
	Suspension Type	Track		SC-10 136	SC-10 136	SC-10	
		Ski		ADSA	ADSA	ADSA	
		Length		mm (in)	3004 (118.3)	3004 (118.3)	2766 (108.9)
		Width		mm (in)	1144 (45)	1144 (45)	1144 (45.0)
Height		mm (in)	1409 (55.5)	1409 (55.5)	1232 (48.5)		
Ski Stance (carbide to carbide)		mm (in)	1080 (42.5)	1080 (42.5)	1080 (42.5)		
Toe-out and Camber		mm (in) degree	3 (1/8) 0	3 (1/8) 0	3 (1/8) 0		
Mass (dry)		kg (lb)	227 (500)	227 (500)	200 (440)		
Ground Contact Area		cm ² (in ²)	7162.8 (1110)	7162.8 (1110)	6477 (1004)		
Ground Contact Pressure		kPa (PSI)	3.11 (.451)	3.11 (.451)	3.03 (.439)		
Frame Material			Aluminum	Aluminum	Aluminum		
Bottom Pan Material			Impact Copolymer	Impact Copolymer	Impact Copolymer		
Hood Material			Surlyn	Surlyn	Surlyn ⑤		
	Battery		V/A•h	12/18	12/18	12/18	
	Headlight		W	H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight		W	8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs		W	2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs		W	N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid	A	30	30	30	
		Fuel Level Sensor	A	.25	.25	.25	
	Fuel Tank		L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox		mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ②		L (U.S. oz)	N.A.	N.A.	N.A.	
	Injection Oil Reservoir		L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		LEGEND 550 E/R FAN (CAN./U.S.)	SKANDIC SPORT 500 R FAN (CAN./U.S.)	SUMMIT 550 R FAN (CAN./U.S.)	
ENGINE TYPE		552	503	552	
Chain Drive Ratio		22/43	19/43	19/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/11	Silent 72/11	Silent 72/11	
Drive Pulley	Type of Drive Pulley	Bombardier Lite	TRA	Bombardier Lite	
	Ramp Identification and Roller Pin Type	N.A.	296 ⑦	N.A.	
	Calibration Screw Position or Calibration Part ①	417 128 604	3	417 128 605	
	Spring Color	Violet/Yellow	Red/Yellow	Violet/Green	
	Spring Length mm (in)	–	87.90 (3.461)	–	
	Clutch Engagement ± 100 RPM	3500	3500	3500	
Driven Pulley	Type	Formula RER	Formula RER	Formula RER	
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.	
	Cam Angle Degree	50/47	48/44	50/47	
Pulley Distance	Z ± 0.5 mm (± .020 in)	26.0 (1.024)	26.0 (1.024)	26.0 (1.024)	
	X ± 0.5 mm (± .020 in)	33.4 (1.315)	35.5 (1.398)	33.4 (1.315)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)	1.0 ± 0.75 (.039 ± .030)	
Drive Belt Part Number (P/N)		415 060 600	415 060 600	415 060 600	
Drive Belt Width (wear limit) mm (in)		32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.34 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3074 (121)	3455 (136)	3455 (136)	
	Profile Height mm (in)	22.3 (.878)	23.2 (.913)	38.1 (.1.5)	
	Adjustment	Deflection mm (in)	30 – 35 (1.181 – 1.378)	35 – 40 (1.378 – 1.575)	35 – 40 (1.378 – 1.575)
		Force ④ kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10	SC-10 136	SC-10 136	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	2766 (108.9)	3004 (118.3)	2932 (115.433)	
	Width mm (in)	1144 (45.0)	1144 (45.0)	1139 (44.8)	
	Height mm (in)	1232 (48.5)	1409 (55.5)	1130 (44.5)	
	Ski Stance (carbide to carbide) mm (in)	1080 (42.5)	1080 (42.5)	1080 (42.5)	
	Toe-out and Camber mm (in) degree	3 (1/8) 0	3 (1/8) 0	9 (11/32) 0	
	Mass (dry) kg (lb)	209 (460)	206 (454)	207 (456)	
	Ground Contact Area cm² (in²)	6477 (1004)	7162.8 (1110.2)	8226.9 (1033.992)	
	Ground Contact Pressure kPa (PSI)	3.17 (.460)	2.82 (.409)	2.47 (.358)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact Copolymer	Impact copolymer	Impact copolymer	
	Hood Material	Surlyn ⑨	Surlyn ⑨	Surlyn ⑨	
		Battery V/A•h	12/18	N.A.	N.A.
Headlight W		H4 60/55	H4 60/55	H4 60/55	
Taillight and Stoplight W		8/27	8/27	8/27	
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
Fuse		Starter Solenoid A	30	N.A.	N.A.
		Fuel Level Sensor A	.25	N.A.	N.A.
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)	N.A.	N.A.	N.A.	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	

Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		SUMMIT 550 R FAN (EUR.)	MX Z 500 TRAIL (CAN./U.S.)	MX Z 500 TRAIL R (CAN./U.S.)	
ENGINE TYPE		552	493	493	
Chain Drive Ratio		20/43	22/43	22/43	
Chain	Pitch	in 3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/11	Silent 74/11	Silent 74/11	
Drive Pulley	Type of Drive Pulley	Bombardier Lite	TRA	TRA	
	Ramp Identification and Roller Pin Type	N.A.	283 ⑤	283 ⑤	
	Calibration Screw Position or Calibration Part ①	1181, C: qty 1, S21: qty 1	4	3	
	Spring Color	Blue/Green	Green/White	Green/Pink	
	Spring Length	mm (in) –	110.7 (4.35)	118.0 (4.65)	
	Clutch Engagement	± 100 RPM 3500	4400	4400	
Driven Pulley	Type	Formula RER	FORMULA	HPV27	
	Spring Preload	± 0.7 kg (± 1.5 lb) N.A.	7.0 (15.4)	N.A.	
	Cam Angle	Degree 50/47	42	44	
Pulley Distance	Z	± 0.5 mm (± .020 in) 26.0 (1.024)	16.5 (.650)	17.5 (.689)	
	X	± 0.5 mm (± .020 in) 33.4 (1.315)	35.5 (1.398)	35.5 (1.398)	
Offset	Y – X	MIN. – MAX. mm (in) 1.0 ± 0.75 (.039 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		415 060 600	414 860 700	414 860 700	
Drive Belt Width (wear limit)		mm (in) 32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③	kg (lbf) 11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width	mm (in) 381 (15.0)	381 (15.0)	381 (15.0)	
	Length	mm (in) 3455 (136)	3074 (121)	3074 (121)	
	Profile Height	mm (in) 31.7 (.1.248)	22.34 (.880)	22.34 (.880)	
	Adjustment	Deflection	mm (in) 35 – 40 (1.378 – 1.575)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④		kg (lbf) 7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track	SC-10 136	SC-10 III	SC-10 III	
	Ski	ADSA	ADSA	ADSA	
	Length	mm (in) 2932 (115.433)	2801 (110)	2801 (110)	
	Width	mm (in) 1139 (44.8) lege	1213 (47.8)	1213 (47.8)	
	Height	mm (in) 1130 (44.5)	1130 (44)	1130 (44)	
	Ski Stance (carbide to carbide)	mm (in) 1080 (42.5)	1195 (47.0)	1195 (47.0)	
	Toe-out and Camber	mm (in) 9 (11/32)	3.0 (1/8)	3.0 (1/8)	
		degree 0	-2	-2	
	Mass (dry)	kg (lb) 207 (456)	216 (476)	216 (476)	
	Ground Contact Area	cm ² (in ²) 8226.9 (1033.992)	6836 (1060)	6836 (1060)	
	Ground Contact Pressure	kPa (PSI) 2.47 (.358)	3.10 (.450)	3.10 (.450)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
Hood Material	RRIM Polyurethane	Surlyn ⑥	Surlyn ⑥		
	Battery	V/A•h N.A.	N.A.	N.A.	
	Headlight	W H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight	W 8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs	W 2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs	W N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid	A N.A.	N.A.	N.A.
		Fuel Level Sensor	A N.A.	N.A.	N.A.
	Fuel Tank	L (U.S. gal) 37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox	mL (U.S. oz) 250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ②	L (U.S. oz) N.A.	3.8 (128.5)	3.8 (128.5)	
	Injection Oil Reservoir	L (U.S. oz) 3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 500 ADRENALINE (CAN./U.S.)	MX Z 500 R ADRENALINE (CAN./U.S.)	MX Z 500 E/R ADRENALINE (CAN./U.S.)	
ENGINE TYPE		493	493	493	
Chain Drive Ratio		22/43	22/43	22/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/11	Silent 74/11	Silent 74/11	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	283 ⑤	283 ⑤	283 ⑤	
	Calibration Screw Position or Calibration Part ①	4	3	4	
	Spring Color	Green/White	Green/Pink	Green/Pink	
	Spring Length mm (in)	110.7 (4.35)	118.0 (4.65)	118.0 (4.65)	
	Clutch Engagement ± 100 RPM	4400	4400	4400	
Driven Pulley	Type	FORMULA	HPV27	HPV27	
	Spring Preload ± 0.7 kg (± 1.5 lb)	7.0 (15.4)	N.A.	N.A.	
	Cam Angle Degree	42	44	44	
Pulley Distance	Z ± 0.5 mm (± .020 in)	16.5 (.650)	17.5 (.689)	17.5 (.689)	
	X ± 0.5 mm (± .020 in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		414 860 700	414 860 700	414 860 700	
Drive Belt Width (wear limit) mm (in)		32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3074 (121)	3074 (121)	3074 (121)	
	Profile Height mm (in)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
		Force ④ kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 III	SC-10 III	SC-10 III	
	Ski	ADSA	ADSA	ADSA	
Length mm (in)		2801 (110.3)	2801 (110.3)	2801 (110.3)	
Width mm (in)		1213 (47.7)	1213 (47.7)	1213 (47.7)	
Height mm (in)		1130 (44.5)	1130 (44.5)	1130 (44.5)	
Ski Stance (carbide to carbide) mm (in)		1195 (47.0)	1195 (47.0)	1195 (47.0)	
Toe-out and Camber mm (in) degree		3.0 (1/8) -2	3.0 (1/8) -2	3.0 (1/8) -2	
Mass (dry) kg (lb)		221 (486)	221 (486)	221 (486)	
Ground Contact Area cm ² (in ²)		6836 (1060)	6836 (1060)	6836 (1060)	
Ground Contact Pressure kPa (PSI)		3.17 (.460)	3.17 (.460)	3.17 (.460)	
Frame Material		Aluminum	Aluminum	Aluminum	
Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer	
Hood Material		Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
Battery V/A•h		N.A.	N.A.	12/18	
Headlight W		H4 60/55	H4 60/55	H4 60/55	
Taillight and Stoplight W		8/27	8/27	8/27	
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
Fuse	Starter Solenoid A	N.A.	N.A.	30	
	Fuel Level Sensor A	N.A.	N.A.	.25	
Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)	
Cooling System ② L (U.S. oz)		3.8 (128.5)	3.8 (128.5)	3.8 (128.5)	
Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 600 TRAIL (CAN./U.S.)	MX Z 600 R TRAIL (CAN./U.S.)	MX Z 600 HO ADRENALINE (CAN./U.S.)	
ENGINE TYPE		593	593	593	
	Chain Drive Ratio		24/43	24/43	
	Chain	Pitch in	3/8	3/8	
		Type/Links Qty/Plates Qty	Silent 74/13	Silent 74/13	
	Drive Pulley	Type of Drive Pulley		TRA	TRA
		Ramp Identification and Roller Pin Type		299 ⑤	299 ⑤
		Calibration Screw Position or Calibration Part ①		4	3
		Spring Color		Green/White	Green/Violet
		Spring Length mm (in)		110.7 (4.35)	133.7 (5.26)
		Clutch Engagement ± 100 RPM		4100	4100
	Driven Pulley	Type		FORMULA	HPV27
		Spring Preload ± 0.7 kg (± 1.5 lb)		7.0 (15.4)	N.A.
		Cam Angle Degree		47	47
	Pulley Distance	Z ± 0.5 mm (± .020 in)		16.5 (.650)	17.5 (.689)
		Offset	X ± 0.5 mm (± .020 in)		35.5 (1.398)
			Y – X	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)
	Drive Belt Part Number (P/N)		414 860 700	414 860 700	417 300 197
	Drive Belt Width (wear limit) mm (in)		32.3 (1.272)	32.3 (1.272)	33.4 (1.31)
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)		32 (1.260)	32 (1.260)
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)
	Track	Width mm (in)		381 (15.0)	381 (15.0)
Length mm (in)		3074 (121)	3074 (121)		
Profile Height mm (in)		22.3 (.880)	22.3 (.880)		
Adjustment		Deflection mm (in)		30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
		Force ④ kg (lbf)		7.3 (16)	7.3 (16)
Suspension Type	Track		SC-10 III	SC-10 III	
	Ski		ADSA	ADSA	
	Length mm (in)		2801 (110.3)	2801 (110.3)	
	Width mm (in)		1213 (47.7)	1213 (47.7)	
	Height mm (in)		1130 (44.5)	1130 (44.5)	
	Ski Stance (carbide to carbide) mm (in)		1195 (47.0)	1195 (47.0)	
	Toe-out and Camber mm (in) degree		3.0 (1/8) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)		217 (477)	217 (477)	
	Ground Contact Area cm ² (in ²)		6836 (1060)	6836 (1060)	
	Ground Contact Pressure kPa (PSI)		3.11 (.451)	3.11 (.451)	
	Frame Material		Aluminum	Aluminum	
	Bottom Pan Material		Impact copolymer	Impact copolymer	
	Hood Material		Surlyn ⑥	Surlyn ⑥	
	Battery V/A•h		N.A.	N.A.	
	Headlight W		H4 60/55	H4 60/55	
	Taillight and Stoplight W		8/27	8/27	
	Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	
	Fuse	Starter Solenoid A		N.A.	N.A.
		Fuel Level Sensor A		N.A.	N.A.
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)		3.8 (128.5)	3.8 (128.5)	
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 600 HO/R ADRENALINE (CAN./U.S.)	MX Z 600 HO RENEGADE (CAN./U.S.)	MX Z 600 HO/R RENEGADE (CAN./U.S.)	
ENGINE TYPE		593	593	593	
Chain Drive Ratio		24/43	22/43	22/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 74/13	Silent 74/13	
Drive Pulley	Type of Drive Pulley	TRA III	TRA III	TRA III	
	Ramp Identification and Roller Pin Type	410 ⑤	410 ⑤	410 ⑤	
	Calibration Screw Position or Calibration Part ①	3	3	3	
	Spring Color	Violet/Blue	Violet/Blue	Violet/Blue	
	Spring Length mm (in)	114.6 (4.512)	114.6 (4.512)	114.6 (4.512)	
	Clutch Engagement ± 100 RPM	3800	3800	3800	
Driven Pulley	Type	HPV VSA	FORMULA VSA	HPV VSA	
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	8 (17.6)	N.A.	
	Cam Angle Degree	47/44	48/44	47/44	
Pulley Distance	Z ± 0.5 mm (± .020 in)	20 (.787)	19 (.748)	20 (.787)	
	X ± 0.5 mm (± .020 in)	37 (1.457)	37 (1.457)	37 (1.457)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		417 300 197	417 300 197	417 300 197	
Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	33.4 (1.31)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3074 (121)	3455 (136)	3455 (136)	
	Profile Height mm (in)	25.4 (1.000)	31.8 (1.3)	31.8 (1.3)	
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
		Force ④ kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 III	SC-10 III 136	SC-10 III 136	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	2801 (110.3)	3005 (118)	3005 (118)	
	Width mm (in)	1213 (47.7)	1172 (46.1)	1172 (46.1)	
	Height mm (in)	1130 (44.5)	1130 (44)	1130 (44)	
	Ski Stance (carbide to carbide) mm (in)	1195 (47.0)	1151 (45.3)	1151 (45.3)	
	Toe-out and Camber mm (in) degree	3.0 (1/8) -2	9 (11/32) -2	9 (11/32) -2	
	Mass (dry) kg (lb)	222 (488)	234 (514)	234 (514)	
	Ground Contact Area cm ² (in ²)	6836 (1060)	7522 (1166)	7522 (1166)	
	Ground Contact Pressure kPa (PSI)	3.19 (.463)	3.05 (.442)	3.05 (.442)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material	Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
		Battery V/A•h	N.A.	N.A.	N.A.
Headlight W		H4 60/55	H4 60/55	H4 60/55	
Taillight and Stoplight W		8/27	8/27	8/27	
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
Fuse		Starter Solenoid A	N.A.	N.A.	N.A.
		Fuel Level Sensor A	N.A.	N.A.	N.A.
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)	3.8 (128.5)	4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 600 HO/R RENEGADE (EUR.)	MX Z 600 HO E/R RENEGADE (CAN./U.S.)	MX Z 700 ADRENALINE (CAN./U.S.)		
ENGINE TYPE		593	593	693		
	Chain Drive Ratio		22/43	22/43	25/43	
	Chain	Pitch in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 74/13	Silent 74/13	Silent 76/13
	Drive Pulley	Type of Drive Pulley		TRA III	TRA III	TRA
		Ramp Identification and Roller Pin Type		410 ⑤	410 ⑤	300 ⑤
		Calibration Screw Position or Calibration Part ①		3	3	3
		Spring Color		Violet/Blue	Violet/Blue	Green/Violet
		Spring Length mm (in)		114.6 (4.512)	114.6 (4.512)	133.7 (5.26)
		Clutch Engagement ± 100 RPM		3800	3800	3800
	Driven Pulley	Type		HPV VSA	HPV VSA	FORMULA
		Spring Preload ± 0.7 kg (± 1.5 lb)		N.A.	N.A.	8 (18)
		Cam Angle Degree		47/44	47/44	48/44
	Pulley Distance	Z ± 0.5 mm (± .020 in)		20 (.787)	20.0 (.787)	16.5 (.650)
		Offset	X ± 0.5 mm (± .020 in)		37 (1.457)	37.0 (1.457)
			Y – X	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)
	Drive Belt Part Number (P/N)		417 300 197	417 300 197	417 300 127	
	Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	33.4 (1.31)	
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)		32 (1.260)	32 (1.260)	32 (1.260)
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width mm (in)		381 (15.0)	381 (15.0)	381 (15.0)
		Length mm (in)		3455 (136)	3455 (136)	3074 (121)
		Profile Height mm (in)		31.8 (1.3)	31.8 (1.3)	25.4 (1.0)
		Adjustment	Deflection mm (in)		30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④ kg (lbf)			7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 III 136	SC-10 III 136	SC-10 III	
	Ski		ADSA	ADSA	ADSA	
	Length mm (in)		3005 (118)	3005 (118)	2801 (110)	
	Width mm (in)		1172 (46.1)	1172 (46.1)	1213 (47.8)	
	Height mm (in)		1130 (44)	1130 (44)	1130 (44)	
	Ski Stance (carbide to carbide) mm (in)		1151 (45.3)	1151 (45.3)	1195 (47)	
	Toe-out and Camber mm (in) degree		9 (11/32) -2	9 (11/32) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)		234 (514)	245 (540)	221 (487)	
	Ground Contact Area cm² (in²)		7522 (1166)	7522 (1166)	6836 (1060)	
	Ground Contact Pressure kPa (PSI)		3.05 (.442)	3.20 (.464)	3.17 (.460)	
	Frame Material		Aluminum	Aluminum	Aluminum	
	Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material		Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
	Battery V/A•h		N.A.	12/18	N.A.	
	Headlight W		H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight W		8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid A		N.A.	30	N.A.
		Fuel Level Sensor A		N.A.	.25	N.A.
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)		4.0 (135.3)	4.0 (135.3)	3.8 (128.5)	
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 700 R ADRENALINE (CAN./U.S.)	MX Z 700 E/R ADRENALINE (CAN./U.S.)	MX Z 800 R ADRENALINE (CAN./U.S.)		
ENGINE TYPE		693	693	793		
	Chain Drive Ratio		25/43	25/43	26/43	
	Chain	Pitch in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty	Silent 76/13	Silent 76/13	Silent 76/13	
	Drive Pulley	Type of Drive Pulley		TRA	TRA	TRA
		Ramp Identification and Roller Pin Type		300 ⑤	300 ⑤	301 ⑤
		Calibration Screw Position or Calibration Part ①		3	3	3
		Spring Color		Green/Violet	Green/Violet	Violet/Yellow
		Spring Length	mm (in)	133.7 (5.26)	133.7 (5.26)	157.9 (6.22)
	Driven Pulley	Clutch Engagement ± 100 RPM		3800	3800	3800
		Type		HPV27	HPV27	HPV27
		Spring Preload	± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.
	Pulley Distance	Cam Angle Degree		50/47	50/47	47/44
		Z	± 0.5 mm (± .020 in)	17.5 (.689)	17.5 (.689)	17.5 (.689)
	Offset	X ± 0.5 mm (± .020 in)		35.5 (1.398)	35.5 (1.398)	35.5 (1.398)
		Y - X	MIN. - MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)
	Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127	
	Drive Belt Width (wear limit)		mm (in)	33.4 (1.31)	33.4 (1.31)	33.4 (1.31)
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)		32 (1.260)	32 (1.260)	32 (1.260)
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width mm (in)		381 (15.0)	381 (15.0)	381 (15.0)
		Length mm (in)		3074 (121)	3074 (121)	3074 (121)
		Profile Height mm (in)		25.4 (1.0)	25.4 (1.0)	25.4 (1.0)
		Adjustment	Deflection mm (in)	30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)
Force ④ kg (lbf)	7.3 (16)		7.3 (16)	7.3 (16)		
Suspension Type	Track		SC-10 III	SC-10 III	SC-10 III	
	Ski		ADSA	ADSA	ADSA	
	Length mm (in)		2801 (110)	2801 (110)	2801 (110)	
	Width mm (in)		1213 (47.8)	1213 (47.8)	1213 (47.8)	
	Height mm (in)		1130 (44)	1130 (44)	1130 (44.5)	
	Ski Stance (carbide to carbide) mm (in)		1195 (47)	1195 (47)	1195 (47)	
	Toe-out and Camber mm (in) degree		3.0 (1/8) -2	3.0 (1/8) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)		221 (487)	233 (513)	222 (489)	
	Ground Contact Area cm² (in²)		6836 (1060)	6836 (1060)	6836 (1060)	
	Ground Contact Pressure kPa (PSI)		3.17 (.460)	3.34 (.484)	3.19 (.463)	
	Frame Material		Aluminum	Aluminum	Aluminum	
	Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material		Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
		Battery V/A•h		N.A.	12/18	N.A.
Headlight W		H4 60/55	H4 60/55	H4 60/55		
Taillight and Stoplight W		8/27	8/27	8/27		
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3		
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.		
Fuse		Starter Solenoid A		N.A.	30	N.A.
		Fuel Level Sensor A		N.A.	.25	N.A.
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)		3.8 (128.5)	3.8 (128.5)	3.8 (128.5)	
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 800 E/R ADRENALINE (CAN./U.S.)	MX Z 800 R RENEGADE (CAN./U.S.)	MX Z 800 R RENEGADE (EUR.)	
ENGINE TYPE		793	793	793	
	Chain Drive Ratio	26/43	23/43	23/43	
	Chain	Pitch in	3/8	3/8	3/8
		Type/Links Qty/Plates Qty	Silent 76/13	Silent 74/13	Silent 74/13
	Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA
		Ramp Identification and Roller Pin Type	301 ⑤	301 ⑤	301 ⑤
		Calibration Screw Position or Calibration Part ①	3	3	3
		Spring Color	Violet/Yellow	Violet/Yellow	Violet/Yellow
		Spring Length mm (in)	157.9 (6.22)	157.9 (6.22)	157.9 (6.22)
	Driven Pulley	Clutch Engagement ± 100 RPM	3800	3800	3800
		Type	HPV27	HPV27	HPV27
		Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.
	Pulley Distance	Cam Angle Degree	47/44	47/44	47/44
		Z ± 0.5 mm (± .020 in)	17.5 (.689)	17.5 (.689)	17.5 (.689)
	Offset	X ± 0.5 mm (± .020 in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)
		Y - X MIN. - MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)
	Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127
	Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	33.4 (1.31)
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)
		Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)
		Length mm (in)	3074 (121)	3455 (136)	3455 (136)
		Profile Height mm (in)	25.4 (1.0)	31.8 (1.3)	31.8 (1.3)
		Adjustment	Deflection mm (in)	30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)
Force ④ kg (lbf)	7.3 (16)		7.3 (16)	7.3 (16)	
Suspension Type	Track	SC-10 III	SC-10 III 136	SC-10 III 136	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	2801 (110)	3005 (118)	3005 (118)	
	Width mm (in)	1213 (47.8)	1172 (46.1)	1172 (46.1)	
	Height mm (in)	1130 (44.5)	1130 (44)	1130 (44)	
	Ski Stance (carbide to carbide) mm (in)	1195 (47)	1151 (45.3)	1151 (45.3)	
	Toe-out and Camber	mm (in)	3.0 (1/8)	9 (11/32)	9 (11/32)
		degree	-2	-2	-2
	Mass (dry) kg (lb)	234 (515)	235 (516)	235 (516)	
	Ground Contact Area cm² (in²)	6836 (1060)	7522 (1166)	7522 (1166)	
	Ground Contact Pressure kPa (PSI)	3.36 (.487)	3.06 (.444)	3.06 (.444)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
Hood Material	Surlyn ⑨	Surlyn ⑨	Surlyn ⑨		
	Battery V/A•h	12/18	N.A.	N.A.	
	Headlight W	H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight W	8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs W	2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W	N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid A	30	N.A.	N.A.
		Fuel Level Sensor A	.25	N.A.	N.A.
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)	3.8 (128.5)	4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 800 E/R RENEGADE (CAN./U.S.)	SUMMIT 600 HO ADRENALINE (CAN./U.S.)	SUMMIT 600 HO/R ADRENALINE (CAN./U.S./EUR.)	
ENGINE TYPE		793	593	593	
Chain Drive Ratio		23/43	19/43	21/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 72/13	Silent 74/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA III	TRA III	
	Ramp Identification and Roller Pin Type	301 ⑤	417 ⑥	410 ⑥	
	Calibration Screw Position or Calibration Part ①	3	1	3	
	Spring Color	Violet/Yellow	Green/White	Violet/Blue	
	Spring Length mm (in)	157.9 (6.22)	114.6 (4.542)	114.6 (4.542)	
	Clutch Engagement ± 100 RPM	3800	4100	3800	
Driven Pulley	Type	HPV27	FORMULA VSA	HPV VSA	
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	8 (18)	8 (18)	
	Cam Angle Degree	47/44	48/44	44	
Pulley Distance	Z ± 0.5 mm (± .020 in)	17.5 (.689)	19 (.748)	20 (.787)	
	X ± 0.5 mm (± .020 in)	35.5 (1.398)	37 (1.457)	37 (1.457)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		417 300 127	417 300 197	417 300 197	
Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	33.4 (1.31)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3455 (136)	3648 (144)	3648 (144)	
	Profile Height mm (in)	31.8 (1.3)	50.8 (2.0)	50.8 (2.0)	
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④ kg (lbf)		7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track	SC-10 III 136	SC-10 144	SC-10 144	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	3005 (118)	3134 (123.4)	3134 (123.4)	
	Width mm (in)	1172 (46.1)	1139 (44.8)	1139 (44.8)	
	Height mm (in)	1130 (44)	1130 (44.5)	1130 (44.5)	
	Ski Stance (carbide to carbide) mm (in)	1151 (45.3)	1025 (40)	1025 (40)	
	Toe-out and Camber mm (in) degree	9 (11/32) -2	9 (11/32) 0	9 (11/32) 0	
	Mass (dry) kg (lb)	246 (542)	233 (512)	233 (512)	
	Ground Contact Area cm ² (in ²)	7522 (1166)	8684 (1346)	8684 (1346)	
	Ground Contact Pressure kPa (PSI)	3.21 (.465)	2.63 (.381)	2.63 (.381)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material	Surlyn ⑨	RRIM Polyurethane	RRIM Polyurethane	
	Battery V/A•h	12/18	N.A.	N.A.	
	Headlight W	H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight W	8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs W	2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W	N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid A	30	N.A.	N.A.
		Fuel Level Sensor A	.25	N.A.	N.A.
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)	4.0 (135.3)	4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	

Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		SUMMIT 700 ADRENALINE (CAN./U.S.)	SUMMIT 700 R ADRENALINE (CAN./U.S.)	SUMMIT 700 HIGHMARK (CAN./U.S.)		
ENGINE TYPE		693	693	693		
	Chain Drive Ratio		21/43	21/43		
	Chain	Pitch in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 74/13	Silent 74/13	Silent 72/13
	Drive Pulley	Type of Drive Pulley		TRA	TRA	TRA
		Ramp Identification and Roller Pin Type		299 $\text{\textcircled{7}}$	300 $\text{\textcircled{7}}$	299 $\text{\textcircled{7}}$
		Calibration Screw Position or Calibration Part ①		1	1	1
		Spring Color		Violet/Yellow	Violet/Yellow	Violet/Yellow
		Spring Length mm (in)		157.9 (6.22)	157.9 (6.22)	157.9 (6.22)
	Driven Pulley	Clutch Engagement \pm 100 RPM		4100	4100	4100
		Type		FORMULA	HPV27	FORMULA
		Spring Preload \pm 0.7 kg (\pm 1.5 lb)		8 (18)	N.A.	8 (18)
	Pulley Distance	Z \pm 0.5 mm (\pm .020 in)		16.5 (.650)	17.5 (.689)	16.5 (.650)
		Offset	X \pm 0.5 mm (\pm .020 in)		35.5 (1.398)	35.5 (1.398)
			Y – X	MIN. – MAX. mm (in)	1.5 \pm 0.75 (.059 \pm .030)	1.5 \pm 0.75 (.059 \pm .030)
	Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127	
	Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	33.4 (1.31)	
	Drive Belt Adjustment	Deflection \pm 5 mm (\pm .197 in)		32 (1.260)	32 (1.260)	32 (1.260)
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width mm (in)		381 (15.0)	381 (15.0)	381 (15.0)
		Length mm (in)		3648 (144)	3648 (144)	3836 (151)
Profile Height mm (in)		50.8 (2.0)	50.8 (2.0)	50.8 (2.0)		
Adjustment		Deflection mm (in)		30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
	Force ④ kg (lbf)		7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 144	SC-10 144	SC-10 151	
	Ski		ADSA	ADSA	ADSA	
	Length mm (in)		3134 (123.4)	3134 (123.4)	3216 (126.6)	
	Width mm (in)		1139 (45)	1139 (45)	1139 (44.8)	
	Height mm (in)		1130 (44)	1130 (44)	1130 (44)	
	Ski Stance (carbide to carbide) mm (in)		1025 (40.4)	1025 (40.4)	1025 (40.4)	
	Toe-out and Camber mm (in) degree		9 (11/32) 0	9 (11/32) 0	9 (11/32) 0	
	Mass (dry) kg (lb)		234 (514)	234 (514)	238 (523)	
	Ground Contact Area cm ² (in ²)		8684 (1346)	8684 (1346)	9141 (1417)	
	Ground Contact Pressure kPa (PSI)		2.64 (.383)	2.64 (.383)	2.55 (.370)	
	Frame Material		Aluminum	Aluminum	Aluminum	
	Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer	
Hood Material		RRIM Polyurethane	RRIM Polyurethane	RRIM Polyurethane		
	Battery V/A•h		N.A.	N.A.	N.A.	
	Headlight W		H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight W		8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
	Fuse	Starter Solenoid A		N.A.	N.A.	N.A.
		Fuel Level Sensor A		N.A.	N.A.	N.A.
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System ② L (U.S. oz)		4 (135.3)	4 (135.3)	4.2 (142)	
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		SUMMIT 700 R HIGHMARK (CAN./U.S.)	SUMMIT 700 R X (CAN./U.S.)	SUMMIT 800 HO/R ADRENALINE (CAN./U.S.)
ENGINE TYPE		693	693	793
Chain Drive Ratio		19/43	21/43	21/43
Chain	Pitch in	3/8	3/8	3/8
	Type/Links Qty/Plates Qty	Silent 72/13	Silent 74/13	Silent 74/13
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA III
	Ramp Identification and Roller Pin Type	300 \varnothing	300 \varnothing	415 \varnothing
	Calibration Screw Position or Calibration Part ①	1	1	1
	Spring Color	Violet/Yellow	Violet/Orange	Violet/Yellow
	Spring Length mm (in)	157.9 (6.22)	157.9 (6.22)	157.9 (6.217)
Driven Pulley	Clutch Engagement \pm 100 RPM	4100	4100	3800
	Type	HPV27	HPV27	HPV VSA
	Spring Preload \pm 0.7 kg (\pm 1.5 lb)	N.A.	N.A.	N.A.
Pulley Distance	Z \pm 0.5 mm (\pm .020 in)	17.5 (.689)	17.5 (.689)	20.0 (.787)
	X \pm 0.5 mm (\pm .020 in)	35.5 (1.398)	35.5 (1.398)	37.0 (1.457)
Offset	Y – X			
	MIN. – MAX. mm (in)	1.5 \pm 0.75 (.059 \pm .030)	1.5 \pm 0.75 (.059 \pm .030)	1.5 \pm 0.75 (.059 \pm .030)
Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 166
Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	33.4 (1.31)	34.7 (1.366)
Drive Belt Adjustment	Deflection \pm 5 mm (\pm .197 in)	32 (1.260)	32 (1.260)	32 (1.260)
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)
	Length mm (in)	3836 (151)	3648 (144)	3648 (144)
	Profile Height mm (in)	50.8 (2.0)	50.8 (2.0)	50.8 (2.0)
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④ kg (lbf)		7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 151	SC-10 144	SC-10 144
	Ski	ADSA	ADSA	ADSA
Length mm (in)		3216 (126.6)	3134 9123)	3134 (123)
Width mm (in)		1139 (44.8)	1139 (44.8)	1139 (44.8)
Height mm (in)		1130 (44)	1130 (44)	1130 (44)
Ski Stance (carbide to carbide) mm (in)		1025 (40.4)	1025 (40.4)	1025 (40.3)
Toe-out and Camber mm (in) degree		9 (11/32) 0	9 (11/32) 0	9 (11/32) 0
Mass (dry) kg (lb)		238 (523)	234 (514)	236 (520)
Ground Contact Area cm ² (in ²)		9141 (1417)	8684 (1346)	8684 (1346)
Ground Contact Pressure kPa (PSI)		2.55 (.370)	2.64 (.387)	2.67 (.387)
Frame Material		Aluminum	Aluminum	Aluminum
Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer
Hood Material		RRIM Polyurethane	RRIM Polyurethane	RRIM Polyurethane
Battery V/A•h		N.A.	N.A.	N.A.
Headlight W		H4 60/55	H4 60/55	H4 60/55
Taillight and Stoplight W		8/27	8/27	8/27
Tachometer and Speedometer Bulbs W		2 x 3	2 X 3	2 x 3
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.
Fuse	Starter Solenoid A	N.A.	N.A.	N.A.
	Fuel Level Sensor A	N.A.	N.A.	N.A.
Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)
Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)
Cooling System ② L (U.S. oz)		4.2 (142)	4 (135.3)	4 (135.3)
Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)

Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		SUMMIT 800 HO/R X (CAN./U.S.)	SUMMIT 800 HO/R X (EUR.)	SUMMIT 800 HO/R HIGHMARK (CAN./U.S.)			
ENGINE TYPE		793	793	793			
	Chain Drive Ratio		21/43	21/43			
	Chain	Pitch in	3/8	3/8	3/8		
		Type/Links Qty/Plates Qty		Silent 74/13	Silent 74/13	Silent 74/13	
	Drive Pulley	Type of Drive Pulley		TRA III	TRA III	TRA III	
		Ramp Identification and Roller Pin Type		415 ⑦	415 ⑦	415 ⑦	
		Calibration Screw Position or Calibration Part ①		1	3	1	
		Spring Color		Violet/Yellow	Violet/Yellow	Violet/Yellow	
		Spring Length mm (in)		157.9 (6.217)	157.9 (6.217)	157.9 (6.217)	
		Clutch Engagement ± 100 RPM		3800	3800	3800	
	Driven Pulley	Type		HPV VSA	HPV VSA	HPV VSA	
		Spring Preload ± 0.7 kg (± 1.5 lb)		N.A.	N.A.	N.A.	
		Cam Angle Degree		47/44	47/44	44	
	Pulley Distance	Z ± 0.5 mm (± .020 in)		20.0 (.787)	20.0 (.787)	20.0 (.787)	
		Offset	X ± 0.5 mm (± .020 in)		37.0 (1.457)	37.0 (1.457)	37.0 (1.457)
	Y - X		MIN. - MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
	Drive Belt Part Number (P/N)		417 300 166	417 300 166	417 300 166		
	Drive Belt Width (wear limit) mm (in)		34.7 (1.366)	34.7 (1.366)	34.7 (1.366)		
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)		32 (1.260)	32 (1.260)	32 (1.260)	
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)	11.3 (25)	
	Track	Width mm (in)		381 (15.0)	381 (15.0)	381 (15.0)	
		Length mm (in)		3648 (144)	3648 (144)	3836 (151)	
		Profile Height mm (in)		50.8 (2.0)	50.8 (2.0)	50.8 (2.0)	
		Adjustment	Deflection mm (in)		30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)
			Force ④ kg (lbf)		7.3 (16)	7.3 (16)	7.3 (16)
	Suspension Type	Track		SC-10 144	SC-10 144	SC-10 151	
		Ski		ADSA	ADSA	ADSA	
		Length mm (in)		3134 (123)	3134 (123)	3216 (127)	
		Width mm (in)		1139 (44.8)	1139 (44.8)	1139 (44.8)	
Height mm (in)		1130 (44)	1130 (44)	1130 (44)			
Ski Stance (carbide to carbide) mm (in)		1025 (40.3)	1025 (40.3)	1025 (40.3)			
Toe-out and Camber mm (in) degree		9 (11/32) 0	9 (11/32) 0	9 (11/32) 0			
Mass (dry) kg (lb)		236 (520)	236 (520)	240 (529)			
Ground Contact Area cm² (in²)		8684 (1346)	8684 (1346)	9141 (1417)			
Ground Contact Pressure kPa (PSI)		2.67 (.387)	2.67 (.387)	2.58 (.374)			
Frame Material		Aluminum	Aluminum	Aluminum			
Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer			
Hood Material		RRIM Polyurethane	RRIM Polyurethane	RRIM Polyurethane			
		Battery V/A•h		N.A.	N.A.	N.A.	
	Headlight W		H4 60/55	H4 60/55	H4 60/55		
	Taillight and Stoplight W		8/27	8/27	8/27		
	Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3		
	Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.		
	Fuse	Starter Solenoid A		N.A.	N.A.	N.A.	
		Fuel Level Sensor A		N.A.	N.A.	N.A.	
		Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)			
Cooling System ② L (U.S. oz)		4 (135.3)	4 (135.3)	4.2 (142)			
Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)			




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		SUMMIT 800 HO/R HIGHMARK X (CAN./U.S.)	SUMMIT 800 HO/R HIGHMARK XTREME (CAN./U.S.)	LEGEND 500 E/R SPORT (CAN./U.S.)
ENGINE TYPE		793	793	493
Chain Drive Ratio		21/43	19/43	22/43
Chain	Pitch in	3/8	3/8	3/8
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 72/13	Silent 74/11
Drive Pulley	Type of Drive Pulley	TRA III	TRA III	TRA
	Ramp Identification and Roller Pin Type	415 ⑦	415 ⑦	283 ⑤
	Calibration Screw Position or Calibration Part ①	1	1	4
	Spring Color	Violet/Yellow	Violet/Yellow	Violet/Pink
	Spring Length mm (in)	157.9 (6.217)	157.9 (6.217)	101.80 (4.008)
	Clutch Engagement ± 100 RPM	3800	3800	3500
Driven Pulley	Type	HPV VSA	HPV VSA	HPV27
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.
	Cam Angle Degree	44	44	44
Pulley Distance	Z ± 0.5 mm (± .020 in)	20.0 (.787)	20.0 (.787)	17.5 (.689)
	X ± 0.5 mm (± .020 in)	37.0 (1.457)	37.0 (1.457)	35.5 (1.398)
Offset	Y – X			
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)
Drive Belt Part Number (P/N)		417 300 166	417 300 166	414 860 700
Drive Belt Width (wear limit) mm (in)		34.7 (1.366)	34.7 (1.366)	32.3 (1.272)
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)
	Length mm (in)	3836 (151)	4039 (159)	3074 (121)
	Profile Height mm (in)	50.8 (2.0)	50.8 (2.0)	22.3 (.880)
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④ kg (lbf)		7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 151	SC-10 159	SC-10 III
	Ski	ADSA	ADSA	ADSA
Length mm (in)		3216 (127)	3314 (130)	2801 (110.3)
Width mm (in)		1139 (44.8)	1139 (44.8)	1213 (47.8)
Height mm (in)		1130 (44)	1130 (44)	1232 (48.5)
Ski Stance (carbide to carbide) mm (in)		1025 (40.3)	1025 (40.3)	1195 (47)
Toe-out and Camber mm (in) degree		9 (11/32) 0	9 (11/32) 0	3.0 (1/8) -2
Mass (dry) kg (lb)		240 (529)	243 (534)	222 (489)
Ground Contact Area cm ² (in ²)		9141 (1417)	9598 (1487)	6910 (1071.1)
Ground Contact Pressure kPa (PSI)		2.58 (.374)	2.48 (.360)	3.15 (.457)
Frame Material		Aluminium	Aluminium	Aluminum
Bottom Pan Material		Impact copolymer	Impact copolymer	Impact copolymer
Hood Material		RRIM Polyurethane	RRIM Polyurethane	Surlyn ⑥
Battery V/A•h		N.A.	N.A.	12/18
Headlight W		H4 60/55	H4 60/55	H4 60/55
Taillight and Stoplight W		8/27	8/27	8/27
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.
Fuse	Starter Solenoid A	N.A.	N.A.	30
	Fuel Level Sensor A	N.A.	N.A.	0.25
Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)
Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)
Cooling System L (U.S. oz)		4.2 (142)	4.2 (142)	3.8 (128.5)
Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		LEGEND 600 E/R SE (CAN./U.S.)	LEGEND 600 E/R Sport (CAN./U.S.)	LEGEND 700 E/R SE (CAN./U.S.)	
ENGINE TYPE		593	593	693	
Chain Drive Ratio		24/43	24/43	25/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 74/13	Silent 76/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	299 ⑤	299 ⑤	299 ⑤	
	Calibration Screw Position or Calibration Part ①	3	3	3	
	Spring Color	Violet/Violet	Violet/Violet	Blue/Yellow	
	Spring Length mm (in)	106.98 (4.212)	106.98 (4.212)	115.10 (4.531)	
	Clutch Engagement ± 100 RPM	3600	3600	3600	
Driven Pulley	Type	HPV27	HPV27	HPV27	
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.	
	Cam Angle Degree	47	47	47	
Pulley Distance	Z ± 0.5 mm (± .020 in)	17.5 (.689)	17.5 (.689)	17.5 (.689)	
	X ± 0.5 mm (± .020 in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		414 860 700	414 860 700	417 300 127	
Drive Belt Width (wear limit) mm (in)		32.3 (1.272)	32.3 (1.272)	33.4 (1.31)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3074 (121)	3074 (121)	3074 (121)	
	Profile Height mm (in)	22.3 (.880)	22.3 (.880)	22.34 (.880)	
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
		Force ④ kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 III	SC-10 III	SC-10 III	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	2801 (110.3)	2801 (110.3)	2801 (110.3)	
	Width mm (in)	1213 (47.8)	1213 (47.8)	1213 (47.8)	
	Height mm (in)	1232 (48.5)	1232 (48.5)	1232 (48.5)	
	Ski Stance (carbide to carbide) mm (in)	1195 (47)	1195 (47)	1195 (47)	
	Toe-out and Camber mm (in) degree	3.0 (1/8) -2	3.0 (1/8) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)	227 (500) Air shocks: 230 (505)	227 (500)	229 (503) Air shocks: 231 (508)	
	Ground Contact Area cm ² (in ²)	6910 (1071.1)	6910 (1071.1)	6910 (1071.1)	
	Ground Contact Pressure kPa (PSI)	3.22 (.467) Air shocks: 3.26 (.472)	3.22 (.467)	3.25 (.471) Air shocks: 3.35 (.485)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material	Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
		Battery V/A•h	12/18	12/18	12/18
Headlight W		H4 60/55	H4 60/55	H4 60/55	
Taillight and Stoplight W		8/27	8/27	8/27	
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
Fuel and Temperature Gauge Bulbs W		3	N.A.	3	
Fuse		Starter Solenoid A	30	30	30
		Fuel Level Sensor A	0.25	0.25	0.25
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System L (U.S. oz)	3.8 (128.5)	3.8 (128.5)	3.8 (128.5)	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	





Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		LEGEND 700 E/R SPORT (CAN./U.S.)	GRAND TOURING 500 E/R SPORT (CAN./U.S.)	GRAND TOURING 500 E/R SPORT (EUR.)	
ENGINE TYPE		693	493	493	
Chain Drive Ratio		25/43	22/43	21/43	
Chain	Pitch in	3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 76/13	Silent 74/11	Silent 74/11	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	299 ⑤	283 ⑤	283 ⑤	
	Calibration Screw Position or Calibration Part ①	3	4	4	
	Spring Color	Blue/Yellow	Violet/Pink	Violet/Pink	
	Spring Length mm (in)	115.10 (4.531)	101.80 (4.008)	101.80 (4.008)	
	Clutch Engagement ± 100 RPM	3600	3500	3500	
Driven Pulley	Type	HPV27	HPV27	HPV27	
	Spring Preload ± 0.7 kg (± 1.5 lb)	N.A.	N.A.	N.A.	
	Cam Angle Degree	47	44	44	
Pulley Distance	Z ± 0.5 mm (± .020 in)	17.5 (.689)	17.5 (.689)	17.5 (.689)	
	X ± 0.5 mm (± .020 in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)	
Offset	Y – X				
	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		417 300 127	414 860 700	414 860 700	
Drive Belt Width (wear limit) mm (in)		33.4 (1.31)	32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
	Force ③ kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width mm (in)	381 (15.0)	381 (15.0)	381 (15.0)	
	Length mm (in)	3074 (121)	3455 (136)	3455 (136)	
	Profile Height mm (in)	22.34 (.880)	22.3 (.880)	25.4 (1.000)	
	Adjustment	Deflection mm (in)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
		Force ④ kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 III	SC-10 III 136	SC-10 III 136	
	Ski	ADSA	ADSA	ADSA	
	Length mm (in)	2801 (110.3)	3039 (119.6)	3039 (119.6)	
	Width mm (in)	1213 (47.8)	1213 (47.756)	1213 (47.756)	
	Height mm (in)	1232 (48.5)	1409 (55.5)	1409 (55.5)	
	Ski Stance (carbide to carbide) mm (in)	1195 (47)	1195 (47.1)	1195 (47.1)	
	Toe-out and Camber mm (in) degree	3.0 (1/8) -2	3.0 (1/8) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)	249 (547)	248 (546)	248 (546)	
	Ground Contact Area cm ² (in ²)	6910 (1071.1)	7596 (1177.4)	7596 (1177.4)	
	Ground Contact Pressure kPa (PSI)	3.53 (.512)	3.20 (.464)	3.20 (.464)	
	Frame Material	Aluminum	Aluminum	Aluminum	
	Bottom Pan Material	Impact copolymer	Impact copolymer	Impact copolymer	
	Hood Material	Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
		Battery V/A•h	12/18	12/18	12/18
Headlight W		H4 60/55	H4 60/55	H4 60/55	
Taillight and Stoplight W		8/27	8/27	8/27	
Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
Fuel and Temperature Gauge Bulbs W		N.A.	N.A.	N.A.	
Fuse		Starter Solenoid A	30	30	30
		Fuel Level Sensor A	0.25	0.25	0.25
	Fuel Tank L (U.S. gal)	37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)	250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System L (U.S. oz)	3.8 (128.5)	4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir L (U.S. oz)	3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	




Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		GRAND TOURING 600 E/R SE (CAN./U.S.)	GRAND TOURING 600 E/R SE (EUR.)	GRAND TOURING 600 E/R SPORT (CAN./U.S.)		
ENGINE TYPE		593	593	593		
	Chain Drive Ratio		23/43	23/43	23/43	
	Chain	Pitch in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 74/13	Silent 74/13	Silent 74/13
	Drive Pulley	Type of Drive Pulley		TRA	TRA	TRA
		Ramp Identification and Roller Pin Type		299 ⑤	299 ⑤	299 ⑤
		Calibration Screw Position or Calibration Part ①		3	3	3
		Spring Color		Violet/Violet	Violet/Violet	Violet/Violet
		Spring Length mm (in)		107 (4.2)	106.98 (4.212)	106.98 (4.212)
		Clutch Engagement ± 100 RPM		3600	3600	3600
	Driven Pulley	Type		HPV27	HPV27	HPV27
		Spring Preload ± 0.7 kg (± 1.5 lb)		N.A.	N.A.	N.A.
		Cam Angle Degree		47	47	47
	Pulley Distance	Z ± 0.5 mm (± .020 in)		17.5 (.689)	17.5 (.689)	17.5 (.689)
		Offset	X ± 0.5 mm (± .020 in)		35.5 (1.398)	35.5 (1.398)
			Y – X	MIN. – MAX. mm (in)	1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)
	Drive Belt Part Number (P/N)		414 860 700	414 860 700	414 860 700	
	Drive Belt Width (wear limit) mm (in)		32.3 (1.272)	32.3 (1.272)	32.3 (1.272)	
	Drive Belt Adjustment	Deflection ± 5 mm (± .197 in)		32 (1.260)	32 (1.260)	32 (1.260)
		Force ③ kg (lbf)		11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width mm (in)		381 (15.0)	381 (15.0)	381 (15.0)
		Length mm (in)		3455 (136)	3455 (136)	3455 (136)
		Profile Height mm (in)		22.3 (.880)	25.4 (1.000)	22.3 (.878)
		Adjustment	Deflection mm (in)		30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
Force ④ kg (lbf)			7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 III 136	SC-10 III 136	SC-10 III 136	
	Ski		ADSA	ADSA	ADSA	
	Length mm (in)		3039 (119.6)	3039 (119.6)	3039 (119.6)	
	Width mm (in)		1213 (47.756)	1213 (47.756)	1213 (47.756)	
	Height mm (in)		1409 (55.5)	1409 (55.5)	1409 (55.5)	
	Ski Stance (carbide to carbide) mm (in)		1195 (47.1)	1195 (47.1)	1195 (47.1)	
	Toe-out and Camber mm (in) degree		3.0 (1/8) -2	3.0 (1/8) -2	3.0 (1/8) -2	
	Mass (dry) kg (lb)		249 (547) Air shocks: 251 (553)	249 (547)	249 (547)	
	Ground Contact Area cm ² (in ²)		6910 (1071.1)	7596 (1177.4)	7596 (1177.4)	
	Ground Contact Pressure kPa (PSI)		3.53 (.512) Air shocks: 3.56 (.516)	3.22 (.467)	3.22 (.467)	
	Frame Material		Aluminum	Aluminum	Aluminum	
	Bottom Pan Material		Impact copolymer	Impact copolymer	Impact Copolymer	
	Hood Material		Surlyn ⑥	Surlyn ⑥	Surlyn ⑥	
	Battery V/A•h		12/18	12/18	12/18	
	Headlight W		H4 60/55	H4 60/55	H4 60/55	
	Taillight and Stoplight W		8/27	8/27	8/27	
	Tachometer and Speedometer Bulbs W		2 x 3	2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs W		3	3	3	
	Fuse	Starter Solenoid A		30	30	30
		Fuel Level Sensor A		0.25	0.25	0.25
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)	250 (8.5)	
	Cooling System L (U.S. oz)		4.0 (135.3)	4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)	3.5 (118.4)	

Section 10 TECHNICAL DATA

Subsection 03 (VEHICLES)

VEHICLE MODEL		GRAND TOURING 700 E/R SPORT (CAN./U.S.)	GRAND TOURING 700 E/R SE (CAN./U.S.)	
ENGINE TYPE		693	693	
Chain Drive Ratio		23/43	23/43	
Chain	Pitch	in 3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 74/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA	
	Ramp Identification and Roller Pin Type	299 ⑤	299 ⑤	
	Calibration Screw Position or Calibration Part ①	3	3	
	Spring Color	Blue/Yellow	Blue/Yellow	
	Spring Length	mm (in) 115.10 (4.531)	115.10 (4.531)	
	Clutch Engagement	± 100 RPM 3600	3600	
Driven Pulley	Type	HPV27	HPV27	
	Spring Preload	± 0.7 kg (± 1.5 lb) N.A.	N.A.	
	Cam Angle	Degree 47	47	
Pulley Distance	Z	± 0.5 mm (± .020 in) 17.5 (.689)	17.5 (.689)	
	X	± 0.5 mm (± .020 in) 35.5 (1.398)	35.5 (1.398)	
Offset	Y - X	MIN. - MAX. mm (in) 1.5 ± 0.75 (.059 ± .030)	1.5 ± 0.75 (.059 ± .030)	
Drive Belt Part Number (P/N)		417 300 127	417 300 127	
Drive Belt Width (wear limit)		mm (in) 32.3 (1.272)	32.3 (1.272)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	
	Force ③	kg (lbf) 11.3 (25)	11.3 (25)	
Track	Width	mm (in) 381 (15.0)	381 (15.0)	
	Length	mm (in) 3455 (136)	3455 (136)	
	Profile Height	mm (in) 22.30 (.878)	22.30 (.878)	
	Adjustment	Deflection	mm (in) 30 - 35 (1-3/16 - 1-3/8)	30 - 35 (1-3/16 - 1-3/8)
		Force ④	kg (lbf) 7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 III 136	SC-10 III 136	
	Ski	ADSA	ADSA	
	Length	mm (in) 3039 (119.6)	3039 (119.6)	
	Width	mm (in) 1213 (47.756)	1213 (47.756)	
	Height	mm (in) 1409 (55.472)	1409 (55.5)	
	Ski Stance (carbide to carbide)	mm (in) 1195 (47.1)	1195 (47.1)	
	Toe-out and Camber	mm (in) 3.0 (1/8)	3.0 (1/8)	
		degree -2	-2	
	Mass (dry)	kg (lb) 250 (550)	250 (550) Air shocks: 252 (555)	
	Ground Contact Area	cm ² (in ²) 6910 (1071.1)	6910 (1071.1)	
	Ground Contact Pressure	kPa (PSI) 3.55 (.515)	3.55 (.515) Air shocks: 3.58 (.519)	
	Frame Material	Aluminum	Aluminum	
	Bottom Pan Material	Impact Copolymer	Impact Copolymer	
	Hood Material	Surlyn ⑥	Surlyn ⑥	
	Battery	V/A•h 12/18	12/18	
	Headlight	W H4 60/55	H4 60/55	
	Taillight and Stoplight	W 8/27	8/27	
	Tachometer and Speedometer Bulbs	W 2 x 3	2 x 3	
	Fuel and Temperature Gauge Bulbs	W 3	3	
	Fuse	Starter Solenoid	A 30	30
		Fuel Level Sensor	A 0.25	0.25
	Fuel Tank	L (U.S. gal) 37.3 (9.9)	37.3 (9.9)	
	Chaincase/Gearbox	mL (U.S. oz) 250 (8.5)	250 (8.5)	
	Cooling System ②	L (U.S. oz) 4.0 (135.3)	4.0 (135.3)	
	Injection Oil Reservoir	L (U.S. oz) 3.5 (118.4)	3.5 (118.4)	

ENGINE LEGEND

BTDC: Before Top Dead Center

CDI: Capacitor Discharge Ignition

K: Kilo (x 1000)

ST: Semi-Trapezoidal

MAG: Magneto Side

N.A.: Not Applicable

PTO: Power Take Off Side

- ① The maximum horsepower RPM applicable on the vehicle. It may be different under certain circumstances and BOMBARDIER INC. reserves the right to modify it without obligation.
- ② Crankshaft end-play is not adjustable on these models. Specification is given for verification purposes only.
- ③ At 3500 RPM with headlamp turned on.
- ④ All resistance measurements must be performed with parts at room temperature (approx. 20°C (68°F)). Temperature greatly affects resistance measurements.
- ⑤ Press fit type, not replaceable.
- ⑥ Needle with one groove, not adjustable.
- ⑦ Drive pulley retaining screw: torque to 80 to 100 N•m (59 to 74 lbf•ft), install drive belt, accelerate the vehicle at low speed (maximum 30 km/h (20 MPH)) and apply the brake; repeat 5 times. Retorque screw to 90 to 100 N•m (66 to 74 lbf•ft).
- ⑧ **CAUTION: Do not attempt to adjust gap on spark plug BR 9 ECS. The specification is given for verification purpose only. If found out of specification, replace with a new one.**

VEHICLE LEGEND

ADSA: Advanced Direct Shock Action

RRIM: Reinforced Reaction Injection Molding

TRA: Total Range Adjustable

RER: Rotax Electronic Reverse

VSA: Variable Sheave Angle

N.A.: Not Applicable

- ① For Bombardier Lite drive pulleys:
 - 1157 = Red block, push type 38 g (P/N 417 115 700).
 - 1181 = Black block, screw type 39.6 g (P/N 417 118 100).
 - 1143 = Red block, screw type 41.8 g (P/N 417 114 300).
 - 417 128 603 = Black block, rounded type, S21: qty 1, S3.4: qty 4, C: qty 1
 - 417 128 604 = Black block, rounded type, S21: qty 1, S3.4: qty 3, C: qty 1
 - 417 128 605 = Black block, rounded type, S21: qty 1, S3.4: qty 1, C: qty 1
- W = Washer 1.8 g (P/N 417 115 800).
- C = Cap 1.65 g (P/N 417 114 500).
- S3.4 = Weight, screw type 3.4 g (P/N 417 114 400).
- S21 = Weight, screw type 21 g (P/N 417 120 400).
- ② Coolant mixture: 60% antifreeze/40% water.
- ③ Force applied midway between pulleys to obtain specified tension deflection.
- ④ Force or downward pull applied to track to obtain specified tension deflection.
- ⑤ Lever with roller pin (P/N 417 004 308) (solid).
- ⑥ Lever with roller pin (P/N 417 004 309) (hollow).
- ⑦ Lever with roller pin (P/N 417 222 478) (solid).
- ⑧ Lever with roller pin (P/N 417 222 477) (solid).
- ⑨ RRIM (polyurethane) on the following hood colors:
 - 2 tone Yellow/Black
 - 2 tone Full Moon/Voltage Blue
 - 2 tone Black/Orange
 - Autumn Red Metallic