

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 500 STD/TRAIL FORMULA DLX 500 GRAND TOURING 500	MX Z 600 STD/TRAIL/ ADRENALINE/X	FORMULA DLX 600 STD/GSE GRAND TOURING 600	
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)	499.25 (30.47)	597.00 (36.43)	597.00 (36.43)
	Compression Ratio (corrected)		6.65	6.7	6.7
	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	± 0.016 mm (± .0006 in)	0.10 (.0039)	0.120 (.0047)
		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	290	290	
	Ignition Type		CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	
	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	Ω	11.6 – 21.6	11.6 – 21.6
		High Speed	Ω	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 0.4	0.1 – 0.4	
	High Tension Coil ④	Primary	Ω	0.0 – 0.9	0.0 – 0.9
Secondary		kΩ	9.5 – 16.5	9.5 – 16.5	
	Carburetor Type	PTO/MAG	VM 38 429/429	TM 40-B91	
	Main Jet	PTO/MAG	280/280	500/500	
	Needle Jet		480-P-8	P-0 ⑤	
	Pilot Jet		40	20	
	Needle Identification — Clip Position		6DEY10-4	9HFY2/53 ⑥	
	Slide Cut-Away		2.5	2.0	
	Float Adjustment	± 1 mm (± .040 in)	22.9 (.902)	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/4	1	
	Idle Speed	± 200 RPM	1700	1600	
	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 _{em} (lbf·ft)	Drive Pulley Retaining Screw		⌚	
		Exhaust Manifold Nuts or Bolts		23 (17)	
		Magneto Ring Nut		125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)	
			M8	29 (21)	
		Crankcase/Engine Support Nuts or Screws		35 (26)	
		Cylinder Head Screws		29 (21)	
		Crankcase/Cylinder Nuts or Screws		29 (21)	
Axial Fan Shaft Nut		N.A.			






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Subsection 02 (ENGINES)

VEHICLE MODEL		SUMMIT 600	MX Z 700 STD/TRAIL/ ADRENALINE/X		
ENGINE TYPE		593	693		
	Number of Cylinders	2	2		
	Bore	mm (in)	76.00 (2.992)	78.00 (3.071)	
	Stroke	mm (in)	65.80 (2.591)	73.00 (2.874)	
	Displacement	cm ³ (in ³)	597.00 (36.43)	697.64 (42.57)	
	Compression Ratio (corrected)		6.7	6.7	
	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	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	± 0.016 mm (± .0006 in)	0.120 (.0047)	0.118 (.0046)
		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)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)	0.06 (.0024)		
	Magneto Generator Output	W	290	290	
	Ignition Type		CDI	CDI	
	Spark Plug Make and Type		NGK BR9ES	NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	3.00 (.118)	3.36 (.132)	
	Trigger Coil ④	Ω	190 – 300	190 – 300	
	Generating Coil ④	Low Speed	Ω	11.6 – 21.6	11.6 – 21.6
		High Speed	Ω	N.A.	N.A.
	Lighting Coil ④	Ω	0.1 – 0.4	0.1 – 0.4	
	High Tension Coil ④	Primary	Ω	0.0 – 0.9	0.0 – 0.9
Secondary		kΩ	9.5 – 16.5	9.5 – 16.5	
	Carburetor Type	PTO/MAG	TM 40-B94	TM 40-B97	
	Main Jet	PTO/MAG	500/500	520/520	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		20	17.5	
	Needle Identification — Clip Position		9HFY2/53 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	1-1/2	
	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	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•m (lb•ft)	Drive Pulley Retaining Screw	⑦	⑦	
		Exhaust Manifold Nuts or Bolts	23 (17)	23 (17)	
		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)	29 (21)
Axial Fan Shaft Nut		N.A.	N.A.		






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Subsection 02 (ENGINES)

VEHICLE MODEL		FORMULA DLX 700 GS/GSE GRAND TOURING 700	SUMMIT 700 STD/X/H.M./H.M. X	
ENGINE TYPE		693	693	
	Number of Cylinders	2	2	
	Bore	mm (in)	78.00 (3.071)	
	Stroke	mm (in)	73.00 (2.874)	
	Displacement	cm ³ (in ³)	697.64 (42.57)	
	Compression Ratio (corrected)		6.7	
	Maximum Power Engine Speed ①	± 100 RPM	8000	
	Piston Ring Type	1 st /2 nd	ST/N.A.	
	Ring End Gap	New	mm (in)	0.4 (.016)
		Wear Limit	mm (in)	1.0 (.039)
	Ring/Piston Groove Clearance	New	mm (in)	0.04 (.0016)
		Wear Limit	mm (in)	0.2 (.0079)
	Piston/Cylinder Wall Clearance	New	± 0.016 mm (± .0006 in)	0.118 (.0046)
		Wear Limit	mm (in)	0.20 (.0079)
	Connecting Rod Big End Axial Play	New	mm (in)	0.39 (.0154)
Wear Limit		mm (in)	1.2 (.0472)	
Maximum Crankshaft End-play ②	mm (in)	0.3 (.012)		
Maximum Crankshaft Deflection at PTO	mm (in)	0.06 (.0024)		
	Magneto Generator Output	W	290	
	Ignition Type		CDI	
	Spark Plug Make and Type		NGK BR9ES	
	Spark Plug Gap	± 0.05 mm (± .002 in)	0.45 (.018)	
	Ignition Timing BTDC ③	mm (in)	3.36 (.132)	
	Trigger Coil ④	Ω	190 – 300	
	Generating Coil ④	Low Speed	Ω	11.6 – 21.6
		High Speed	Ω	N.A.
	Lighting Coil ④	Ω	0.1 – 0.4	
	High Tension Coil ④	Primary	Ω	0.0 – 0.9
Secondary		kΩ	9.5 – 16.5	
	Carburetor Type	PTO/MAG	TM 40-B115	
	Main Jet	PTO/MAG	520/520	
	Needle Jet		P-0 ⑤	
	Pilot Jet		17.5	
	Needle Identification — Clip Position		9ZLY3/58 ⑥	
	Slide Cut-Away		2.0	
	Float Adjustment	± 1 mm (± .040 in)	N.A.	
	Air or Pilot Screw Adjustment	± 1/16 Turn	1-1/2	
	Idle Speed	± 200 RPM	1500	
	Gas Type/Pump Octane Number		Unleaded/87	
	Gas/Oil Ratio		Injection	
	Type		Liquid	
	Axial Fan Belt Adjustment	Deflection	mm (in)	N.A.
		Force	kg (lbf)	N.A.
	Thermostat Opening Temperature	°C (°F)	42 (108)	
Radiator Cap Opening Pressure	kPa (PSI)	90 (13)		
	ENGINE COLD N·m (lbf·ft)	Drive Pulley Retaining Screw	⑦	
		Exhaust Manifold Nuts or Bolts	23 (17)	
		Magneto Ring Nut	125 (92)	
		Crankcase Nuts or Screws	M6	9 (7)
			M8	29 (21)
		Crankcase/Engine Support Nuts or Screws		35 (26)
		Cylinder Head Screws		29 (21)
		Crankcase/Cylinder Nuts or Screws		29 (21)
Axial Fan Shaft Nut		N.A.		





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Subsection 02 (ENGINES)

VEHICLE MODEL		MX Z 800 STD/X/ADRENALINE	SUMMIT 800 STD/X/H.M./H.M. X		
ENGINE TYPE		793	793		
	Number of Cylinders	2	2		
	Bore	mm (in)	82.00 (3.228)	82.00 (3.228)	
	Stroke	mm (in)	75.7 (2.980)	75.7 (2.980)	
	Displacement	cm ³ (in ³)	799.50 (48.79)	799.50 (48.79)	
	Compression Ratio (corrected)		6.52	6.52	
	Maximum Power Engine Speed ①	± 100 RPM	7850	7850	
	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	± 0.013 mm (± .0005 in) mm (in)	0.145 (.0057) 0.20 (.0079)	0.145 (.0057) 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	290	290
Ignition Type			CDI	CDI	
Spark Plug Make and Type			NGK BR9ES	NGK BR9ES	
Spark Plug Gap		± 0.05 mm (± .002 in)	0.45 (.018)	0.45 (.018)	
Ignition Timing BTDC ③		mm (in)	3.51 (.138)	3.51 (.138)	
Trigger Coil ④		Ω	190 – 300	190 – 300	
Generating Coil ④		Low Speed High Speed	Ω Ω	11.6 – 21.6 N.A.	11.6 – 21.6 N.A.
Lighting Coil ④		Ω	0.1 – 0.4	0.1 – 0.4	
High Tension Coil ④		Primary Secondary	Ω kΩ	0.0 – 0.9 9.5 – 16.5	0.0 – 0.9 9.5 – 16.5
	Carburetor Type	PTO/MAG	TM 40-B103	TM 40-B106	
	Main Jet	PTO/MAG	500/500	500/500	
	Needle Jet		P-0 ⑤	P-0 ⑤	
	Pilot Jet		17.5	17.5	
	Needle Identification — Clip Position		9ZLY2/58 ⑥	9ZLY2/58 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)	
	Drive Pulley Retaining Screw		⑦	⑦	
	Exhaust Manifold Nuts or Bolts		23 (17)	23 (17)	
	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		29 (21)	29 (21)	
	Axial Fan Shaft Nut		N.A.	N.A.	




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Subsection 03 (VEHICLES)

VEHICLE MODEL		MX Z 500 STD	MX Z 500 TRAIL	FORMULA DLX 500 STD		
ENGINE TYPE		493	493	493		
	Chain Drive Ratio		22/43	22/43	22/44	
	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		281 ⑤	281 ⑤	281 ⑤
		Calibration Screw Position or Calibration Disc Quantity		3	3	3
		Spring Color		Green/Blue	Green/Blue	Green/Blue
		Spring Length	± 1.5 mm ($\pm .060$ in)	147.4 (5.80)	147.4 (5.80)	147.4 (5.80)
		Clutch Engagement	± 200 RPM	4100	4100	4100
	Driven Pulley	Type		Formula	Formula	Formula
		Spring Preload	± 0.7 kg (± 1.5 lb)	7.0 (15.4)	7.0 (15.4)	7.0 (15.4)
		Cam Angle Degree		44	44	44
	Pulley Distance	Z	± 0.5 mm ($\pm .020$ in)	16.5 (.650)	16.5 (.650)	16.5 (.650)
	Offset	X	± 0.5 mm ($\pm .020$ in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)
		Y - X	MIN. - MAX.	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)
	Drive Belt Part Number (P/N)		414 860 700	414 860 700	414 860 700	
	Drive Belt Width (new) ①		35.3 (1.390) mm (in)	35.3 (1.390)	35.3 (1.390)	
	Drive Belt Adjustment	Deflection	± 5 mm ($\pm .197$ in)	32 (1.260)	32 (1.260)	32 (1.260)
		Force ②	kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width		38.1 (15.0) cm (in)	38.1 (15.0)	38.1 (15.0)
Length		307.4 (121) cm (in)	307.4 (121)	307.4 (121)		
Profile Height		22.3 (.880) 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)	30 - 35 (1-3/16 - 1-3/8)
	Force ③	kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 II	SC-10 II	SC-10 II	
	Ski		ADSA	ADSA	ADSA	
	Length		272.5 (107.3) cm (in)	272.5 (107.3)	272.5 (107.3)	
	Width		121.3 (47.7) cm (in)	121.3 (47.7)	121.3 (47.7)	
	Height		113.0 (44.5) cm (in)	113.0 (44.5)	113.0 (44.5)	
	Ski Stance		108 (42.5) cm (in)	108 (42.5)	108 (42.5)	
	Toe-out and Camber		mm (in) degree	8 (5/16) - 2	3 (1/8) - 1	3 (1/8) N.A.
	Mass (dry)		213 (468) kg (lb)	213 (468)	225 (496)	
	Ground Contact Area		6670.9 (1034) cm ² (in ²)	6670.9 (1034)	6670.9 (1034)	
	Ground Contact Pressure		3.13 (.454) kPa (PSI)	3.13 (.454)	3.31 (.480)	
	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.	12/13
	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	3	3	3
	Fuel and Temperature Gauge Bulbs		W	N.A.	N.A.	3
	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 ④		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)





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Subsection 03 (VEHICLES)

VEHICLE MODEL		GRAND TOURING 500	MX Z 600 STD/ ADRENALINE	MX Z 600 TRAIL	
ENGINE TYPE		493	593	593	
Chain Drive Ratio		22/44	24/43	24/43	
Chain	Pitch	in 3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/11	Silent 74/13	Silent 74/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	292X ⑤	293X ⑤	293X ⑤	
	Calibration Screw Position or Calibration Disc Quantity	3	4	4	
	Spring Color	Blue/Yellow	Green/White	Green/White	
	Spring Length	± 1.5 mm (± .060 in)	110.7 (4.35)	110.7 (4.35)	
	Clutch Engagement	± 200 RPM	3500	4100	
Driven Pulley	Type	Formula	Formula	Formula	
	Spring Preload	± 0.7 kg (± 1.5 lb)	7.0 (15.4)	7.0 (15.4)	
	Cam Angle	Degree	44	47	
Pulley Distance	Z	± 0.5 mm (± .020 in)	16.5 (.650)	16.5 (.650)	
Offset	X	± 0.5 mm (± .020 in)	35.5 (1.398)	35.5 (1.398)	
	Y - X	MIN. - MAX.	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	
Drive Belt Part Number (P/N)		414 860 700	414 860 700	414 860 700	
Drive Belt Width (new) ①		mm (in) 35.3 (1.390)	35.3 (1.390)	35.3 (1.390)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	
	Force ②	kg (lbf)	11.3 (25)	11.3 (25)	
Track	Width	cm (in)	38.1 (15.0)	38.1 (15.0)	
	Length	cm (in)	345.5 (136)	307.4 (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 ③		kg (lbf)	7.3 (16)	7.3 (16)	
Suspension Type	Track	SC-10 II	SC-10 II	SC-10 II	
	Ski	ADSA	ADSA	ADSA	
	Length	cm (in)	297.8 (117.2)	272.5 (107.3)	
	Width	cm (in)	121.3 (47.7)	121.3 (47.7)	
	Height	cm (in)	123.2 (48.5)	113.0 (44.5)	
	Ski Stance	cm (in)	108 (42.5)	108 (42.5)	
	Toe-out and Camber	mm (in)	3 (1/8)	8 (5/16)	3 (1/8)
		degree	N.A.	- 2	- 1
	Mass (dry)	kg (lb)	252 (554)	213 (469)	
	Ground Contact Area	cm² (in²)	7356.7 (1140)	6670.9 (1034)	
	Ground Contact Pressure	kPa (PSI)	3.36 (.487)	3.13 (.469)	
	Frame Material		Aluminum	Aluminum	
	Bottom Pan Material		Impact Copolymer	Impact Copolymer	
Hood Material		RRIM Polyurethane	RRIM Polyurethane		
	Battery	V/A•h	12/13	N.A.	
	Headlight	W	H4 60/55	H4 60/55	
	Taillight and Stoplight	W	8/27	8/27	
	Tachometer and Speedometer Bulbs	W	3	3	
	Fuel and Temperature Gauge Bulbs	W	N.A.	N.A.	
	Fuse	Starter Solenoid	A	30	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 ④	L (U.S. oz)	4.0 (135.3)	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 X	GRAND TOURING 600	FORMULA DLX 600 STD/GSE		
ENGINE TYPE		593	593	593		
	Chain Drive Ratio		24/43	23/44	24/44	
	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		293X ⑤	281 ⑤	281 ⑤
		Calibration Screw Position or Calibration Disc Quantity		4	3	3
		Spring Color		Green/White	Blue/Yellow	Violet/Yellow
		Spring Length	± 1.5 mm ($\pm .060$ in)	110.7 (4.35)	115.1 (4.53)	157.9 (6.22)
		Clutch Engagement	± 200 RPM	4100	3600	3800
	Driven Pulley	Type		Formula	Formula	Formula
		Spring Preload	± 0.7 kg (± 1.5 lb)	7.0 (15.4)	7.0 (15.4)	7.0 (15.4)
		Cam Angle Degree		47	47	50
	Pulley Distance	Z	± 0.5 mm ($\pm .020$ in)	16.5 (.650)	16.5 (.650)	16.5 (.650)
	Offset	X	± 0.5 mm ($\pm .020$ in)	35.5 (1.398)	35.5 (1.398)	35.5 (1.398)
		Y - X	MIN. - MAX.	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)
	Drive Belt Part Number (P/N)		414 860 700	414 860 700	414 860 700	
	Drive Belt Width (new) ①		35.3 (1.390) mm (in)	35.3 (1.390)	35.3 (1.390)	
	Drive Belt Adjustment	Deflection	± 5 mm ($\pm .197$ in)	32 (1.260)	32 (1.260)	32 (1.260)
		Force ②	kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width		38.1 (15.0) cm (in)	38.1 (15.0)	38.1 (15.0)
Length		307.4 (121) cm (in)	345.5 (136)	307.4 (121)		
Profile Height		24.5 (1.0) 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)	30 - 35 (1-3/16 - 1-3/8)
	Force ③	kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 II	SC-10 II	SC-10 II	
	Ski		ADSA	ADSA	ADSA	
	Length		272.5 (107.3) cm (in)	297.8 (117.2)	272.5 (107.3)	
	Width		121.3 (47.7) cm (in)	121.3 (47.7)	121.3 (47.7)	
	Height		113.0 (44.5) cm (in)	123.2 (48.5)	113.0 (44.5)	
	Ski Stance		108 (42.5) cm (in)	108 (42.5)	108 (42.5)	
	Toe-out and Camber		mm (in) degree	4 (5/32) - 2	3 (1/8) N.A.	3 (1/8) N.A.
	Mass (dry)		213 (469) kg (lb)	252 (555)	226 (497)	
	Ground Contact Area		6670.9 (1034) cm ² (in ²)	7356.7 (1140)	6670.9 (1034)	
	Ground Contact Pressure		3.13 (.469) kPa (PSI)	3.36 (.487)	3.32 (.481)	
	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.	12/13	12/13
	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	3	3	3
	Fuel and Temperature Gauge Bulbs		W	N.A.	3	N.A.
	Fuse	Starter Solenoid	A	N.A.	30	30
Fuel Level Sensor		A	N.A.	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 ④		L (U.S. oz)	3.8 (128.5)	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		SUMMIT 600	MX Z 700 STD/ ADRENALINE	MX Z 700 TRAIL	
ENGINE TYPE		593	693	693	
Chain Drive Ratio		19/43	25/43	25/43	
Chain	Pitch	in 3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 72/13	Silent 76/13	Silent 76/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	287 ⑥	300 ⑤	300 ⑤	
	Calibration Screw Position or Calibration Disc Quantity	3	3	3	
	Spring Color	Pink/White	Green/Violet	Green/Violet	
	Spring Length	± 1.5 mm (± .060 in) 124.5 (4.90)	133.7 (5.26)	133.7 (5.26)	
	Clutch Engagement	± 200 RPM 4500	3800	3800	
Driven Pulley	Type	Formula	Formula	Formula	
	Spring Preload	± 0.7 kg (± 1.5 lb) 8.0 (17.6)	8.0 (17.6)	8.0 (17.6)	
	Cam Angle	Degree 47	50	50	
Pulley Distance	Z	± 0.5 mm (± .020 in) 16.5 (.650)	16.5 (.650)	16.5 (.650)	
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) 1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	
Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127	
Drive Belt Width (new) ①		mm (in) 36.35 (1.431)	36.35 (1.431)	36.35 (1.431)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	32 (1.260)	
	Force ②	kg (lbf) 11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width	cm (in) 38.1 (15.0)	38.1 (15.0)	38.1 (15.0)	
	Length	cm (in) 345.5 (136)	3307.4 (121)	307.4 (121)	
	Profile Height	mm (in) 50.8 (2.0)	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)	30 - 35 (1-3/16 - 1-3/8)
		Force ③	kg (lbf) 7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 Mountain	SC-10 II	SC-10 II	
	Ski	ADSA	ADSA	ADSA	
Length		cm (in) 293.9 (115.7)	272.5 (107.3)	272.5 (107.3)	
Width		cm (in) 107.3 (42.2)	121.3 (47.7)	121.3 (47.7)	
Height		cm (in) 113.0 (44.5)	113.0 (44.5)	113.0 (44.5)	
Ski Stance		cm (in) 94.0 (37.0)	108 (42.5)	108 (42.5)	
Toe-out and Camber		mm (in) degree 8 (5/16) N.A.	8 (5/16) - 2	3 (1/8) - 1	
Mass (dry)		kg (lb) 222 (489)	215 (472)	215 (472)	
Ground Contact Area		cm ² (in ²) 7356.7 (1140)	6670.9 (1034)	6670.9 (1034)	
Ground Contact Pressure		kPa (PSI) 2.96 (.429)	3.16 (.458)	3.16 (.458)	
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 3	3	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 ④		L (U.S. oz) 4.0 (135.3)	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 700 X	GRAND TOURING 700 GS	FORMULA DLX 700 GS/GSE		
ENGINE TYPE		693	693	693		
	Chain Drive Ratio		25/43	23/43	25/44	
	Chain	Pitch	in	3/8	3/8	3/8
		Type/Links Qty/Plates Qty		Silent 76/13	Silent 74/13	Silent 76/13
	Drive Pulley	Type of Drive Pulley		TRA	TRA	TRA
		Ramp Identification and Roller Pin Type		300 ⑤	299 ⑤	299 ⑤
		Calibration Screw Position or Calibration Disc Quantity		3	3	3
		Spring Color		Green/Violet	Blue/Blue	Blue/Blue
		Spring Length	± 1.5 mm (± .060 in)	133.7 (5.26)	99.8 (3.93)	99.8 (3.93)
		Clutch Engagement		± 200 RPM	3800	3600
	Driven Pulley	Type		Formula	Formula	Formula
		Spring Preload	± 0.7 kg (± 1.5 lb)	8.0 (17.6)	8.0 (17.6)	8.0 (17.6)
		Cam Angle		Degree	50	50
	Pulley Distance	Z	± 0.5 mm (± .020 in)	16.5 (.650)	16.5 (.650)	16.5 (.650)
	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)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)
	Drive Belt Part Number (P/N)			417 300 127	417 300 127	417 300 127
	Drive Belt Width (new) ①		mm (in)	36.35 (1.431)	36.35 (1.431)	36.35 (1.431)
	Drive Belt Adjustment	Deflection	± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)
		Force ②	kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width		cm (in)	38.1 (15.0)	38.1 (15.0)
Length		cm (in)	307.4 (121)	345.5 (136)	307.4 (121)	
Profile Height		mm (in)	22.3 (.880)	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)	30 - 35 (1-3/16 - 1-3/8)
		Force ③	kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type		Track	SC-10 II	SC-10 II	SC-10 II	
		Ski	ADSA	ADSA	ADSA	
	Length		cm (in)	272.5 (107.3)	297.8 (117.2)	272.5 (107.3)
	Width		cm (in)	121.3 (47.7)	121.3 (47.7)	121.3 (47.7)
	Height		cm (in)	113.0 (44.5)	123.2 (48.5)	113.0 (44.5)
	Ski Stance		cm (in)	108 (42.5)	108 (42.5)	108 (42.5)
	Toe-out and Camber		mm (in) degree	4 (5/32) - 2	3 (1/8) N.A.	3 (1/8) N.A.
	Mass (dry)		kg (lb)	215 (472)	255 (560)	228 (502)
	Ground Contact Area		cm ² (in ²)	6670.9 (1034)	7357 (1140)	6670.9 (1034)
	Ground Contact Pressure		kPa (PSI)	3.16 (.458)	3.40 (.493)	3.35 (.486)
	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.	12/16	12/16
	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	3	3	3
	Fuel and Temperature Gauge Bulbs		W	N.A.	3	3
	Fuse	Starter Solenoid	A	N.A.	30	30
Fuel Level Sensor		A	N.A.	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 ④		L (U.S. oz)	3.8 (128.5)	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		SUMMIT 700 STD/X (CAN./U.S.)	SUMMIT 700 STD (EUROPE)	SUMMIT 700 H.M.
ENGINE TYPE		693	693	693
Chain Drive Ratio		21/43	21/43	19/43
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 ⑥	299 ⑤	299 ⑥
	Calibration Screw Position or Calibration Disc Quantity	4	3	4
	Spring Color	Violet/Yellow	Violet/Yellow	Violet/Yellow
	Spring Length	± 1.5 mm (± .060 in) 157.9 (6.22)	157.9 (6.22)	157.9 (6.22)
	Clutch Engagement	± 200 RPM 4100	3800	4100
Driven Pulley	Type	Formula	Formula	Formula
	Spring Preload	± 0.7 kg (± 1.5 lb) 8.0 (17.6)	8.0 (17.6)	8.0 (17.6)
	Cam Angle	Degree 47	47	47
Pulley Distance	Z	± 0.5 mm (± .020 in) 16.5 (.650)	16.5 (.650)	16.5 (.650)
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) 1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)
Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127
Drive Belt Width (new) ①		mm (in) 36.35 (1.431)	36.35 (1.431)	36.35 (1.431)
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	32 (1.260)
	Force ②	kg (lbf) 11.3 (25)	11.3 (25)	11.3 (25)
Track	Width	cm (in) 38.1 (15.0)	38.1 (15.0)	38.1 (15.0)
	Length	cm (in) 364.8 (144)	364.8 (144)	383.6 (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)
Force ③		kg (lbf) 7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 Mountain	SC-10 Mountain	SC-10 Mountain
	Ski	ADSA	ADSA	ADSA
	Length	cm (in) 294.7 (116.0)	294.7 (116.0)	315.3 (124.1)
	Width	cm (in) 107.3 (42.2)	107.3 (42.2)	107.3 (42.2)
	Height	cm (in) 113.0 (44.5)	113.0 (44.5)	113.0 (44.5)
	Ski Stance	cm (in) 94.0 (37.0)	94.0 (37.0)	94.0 (37.0)
	Toe-out and Camber	mm (in) 3 (1/8)	3 (1/8)	8 (5/16)
		degree N.A.	N.A.	N.A.
	Mass (dry)	kg (lb) 224 (492)	224 (492)	226 (497)
	Ground Contact Area	cm² (in²) 7356.7 (1140.3)	7356.7 (1140.3)	8271.1 (1282)
	Ground Contact Pressure	kPa (PSI) 2.99 (.434)	2.99 (.434)	2.68 (.389)
	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 3	3	3
	Fuel and Temperature Gauge Bulbs	W N.A.	N.A.	N.A.
	Fuse	Starter Solenoid	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 ④	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 800 STD/ ADRENALINE	MX Z 800 X	SUMMIT 800 STD/X (CAN./U.S.)			
ENGINE TYPE		793	793	793			
	Chain Drive Ratio		26/43	26/43	21/43		
	Chain	Pitch	in	3/8	3/8	3/8	
		Type/Links Qty/Plates Qty		Silent 76/13	Silent 76/13	Silent 74/13	
	Drive Pulley	Type of Drive Pulley		TRA	TRA	TRA	
		Ramp Identification and Roller Pin Type		300 ⑤	300 ⑤	300 ⑥	
		Calibration Screw Position or Calibration Disc Quantity		3	3	3	
		Spring Color		Violet/Yellow	Violet/Yellow	Violet/Yellow	
		Spring Length	± 1.5 mm (± .060 in)	157.9 (6.22)	157.9 (6.22)	157.9 (6.22)	
		Clutch Engagement	± 200 RPM	3800	3800	4100	
	Driven Pulley	Type		Formula	Formula	Formula	
		Spring Preload	± 0.7 kg (± 1.5 lb)	8.0 (17.6)	8.0 (17.6)	8.0 (17.6)	
		Cam Angle		Degree	53/47	53/47	50/47
	Pulley Distance	Z	± 0.5 mm (± .020 in)	16.5 (.650)	16.5 (.650)	16.5 (.650)	
	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)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)
	Drive Belt Part Number (P/N)		417 300 127		417 300 127		
	Drive Belt Width (new) ①		mm (in)		36.35 (1.431)	36.35 (1.431)	36.35 (1.431)
	Drive Belt Adjustment	Deflection	± 5 mm (± .197 in)	32 (1.260)	32 (1.260)	32 (1.260)	
			Force ②	kg (lbf)	11.3 (25)	11.3 (25)	11.3 (25)
	Track	Width		cm (in)	38.1 (15.0)	38.1 (15.0)	38.1 (15.0)
Length		cm (in)	307.4 (121)	307.4 (121)	364.8 (144)		
Profile Height		mm (in)	25.4 (1.0)	25.4 (1.0)	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 ③	kg (lbf)	7.3 (16)	7.3 (16)	7.3 (16)	
Suspension Type	Track		SC-10 II	SC-10 II	SC-10 Mountain		
	Ski		ADSA	ADSA	ADSA		
	Length		cm (in)	272.5 (107.3)	272.5 (107.3)	293.9 (115.7)	
	Width		cm (in)	121.2 (47.7)	121.2 (47.7)	107.3 (42.2)	
	Height		cm (in)	113.0 (44.5)	113.0 (44.5)	113.0 (44.5)	
	Ski Stance		cm (in)	108 (42.5)	108 (42.5)	94.0 (37.0)	
	Toe-out and Camber	mm (in)		8 (5/16)	4 (5/32)	8 (5/16)	
		degree		- 2	- 2	N.A.	
	Mass (dry)		kg (lb)	215 (474)	215 (474)	225 (494)	
	Ground Contact Area		cm² (in²)	6671 (1034)	6671 (1034)	7356.7 (1140.3)	
	Ground Contact Pressure		kPa (PSI)	3.16 (.458)	3.16 (.458)	3.00 (.435)	
	Frame Material		Aluminum				
	Bottom Pan Material		Impact Copolymer				
Hood Material		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	3	3	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 ④		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 800 X (EUROPE)	SUMMIT 800 H.M./H.M. X (CAN./U.S.)	SUMMIT 800 H.M. X (EUROPE)	
ENGINE TYPE		793	793	793	
Chain Drive Ratio		21/43	19/43	19/43	
Chain	Pitch	in 3/8	3/8	3/8	
	Type/Links Qty/Plates Qty	Silent 74/13	Silent 72/13	Silent 72/13	
Drive Pulley	Type of Drive Pulley	TRA	TRA	TRA	
	Ramp Identification and Roller Pin Type	300 ⑤	300 ⑥	300 ⑤	
	Calibration Screw Position or Calibration Disc Quantity	3	3	3	
	Spring Color	Violet/Yellow	Violet/Yellow	Violet/Yellow	
	Spring Length	± 1.5 mm (± .060 in) 157.9 (6.22)	157.9 (6.22)	157.9 (6.22)	
	Clutch Engagement	± 200 RPM 3800	4100	3800	
Driven Pulley	Type	Formula	Formula	Formula	
	Spring Preload	± 0.7 kg (± 1.5 lb) 8.0 (17.6)	8.0 (17.6)	8.0 (17.6)	
	Cam Angle	Degree 50/47	50/47	50/47	
Pulley Distance	Z	± 0.5 mm (± .020 in) 16.5 (.650)	16.5 (.650)	16.5 (.650)	
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) 1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	1.0 - 2.0 (.040 - .080)	
Drive Belt Part Number (P/N)		417 300 127	417 300 127	417 300 127	
Drive Belt Width (new) ①		mm (in) 36.35 (1.431)	36.35 (1.431)	36.35 (1.431)	
Drive Belt Adjustment	Deflection	± 5 mm (± .197 in) 32 (1.260)	32 (1.260)	32 (1.260)	
	Force ②	kg (lbf) 11.3 (25)	11.3 (25)	11.3 (25)	
Track	Width	cm (in) 38.1 (15.0)	38.1 (15.0)	38.1 (15.0)	
	Length	cm (in) 364.8 (144)	383.6 (151)	383.6 (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 ③	kg (lbf) 7.3 (16)	7.3 (16)	7.3 (16)
Suspension Type	Track	SC-10 Mountain	SC-10 Mountain	SC-10 Mountain	
	Ski	ADSA	ADSA	ADSA	
	Length	cm (in) 293.9 (115.7)	315.3 (124.1)	315.3 (124.1)	
	Width	cm (in) 107.3 (42.2)	107.3 (42.2)	107.3 (42.2)	
	Height	cm (in) 113.0 (44.5)	113.0 (44.5)	113.0 (44.5)	
	Ski Stance	cm (in) 94.0 (37.0)	94.0 (37.0)	94.0 (37.0)	
	Toe-out and Camber	mm (in) 8 (5/16)	8 (5/16)	8 (5/16)	
		degree N.A.	N.A.	N.A.	
	Mass (dry)	kg (lb) 225 (494)	227 (499)	227 (499)	
	Ground Contact Area	cm² (in²) 7356.7 (1140.3)	8271.1 (1282)	8271.1 (1282)	
	Ground Contact Pressure	kPa (PSI) 3.00 (.435)	2.69 (.390)	2.69 (.390)	
	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 3	3	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 ④	L (U.S. oz) 4.0 (135.3)	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)	

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 90 to 100 N•m (66 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. Recheck the torque of 90 to 100 N•m (66 to 74 lbf•ft).

VEHICLE LEGEND

ADSA: Advanced Direct Shock Action

RRIM: Reinforced Reaction Injection Molding

TRA: Total Range Adjustable

N.A.: Not Applicable

- ① Minimum allowable width may not be less than 3.0 mm (1/8 in) of new drive belt.
- ② Force applied midway between pulleys to obtain specified tension deflection.
- ③ Force or downward pull applied to track to obtain specified tension deflection.
- ④ Coolant mixture: 60% antifreeze/40% water.
- ⑤ Lever with roller pin (P/N 417 004 308) (solid).
- ⑥ Lever with roller pin (P/N 417 004 309) (hollow).