



YAMAHA

**MX100F
MX175F**

Service Manual

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NOTICE

This manual has been written by Yamaha Motor Company for use by Authorized Yamaha Dealers and their qualified mechanics. In light of this purpose it has been assumed that certain basic mechanical precepts and procedures inherent to our product are already known and understood by the reader. This Research, Engineering, and Service Departments of Yamaha are continually striving to further improve all models manufactured by the company. Modifications are therefore inevitable and significant changes in specifications or procedures will be forwarded to all Authorized Yamaha Dealers and will, where applicable, appear in future editions of this manual.

**MX100F/MX175F
SERVICE MANUAL
1st Edition, NOVEMBER 1978
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YAMAHA MOTOR COMPANY, LTD.,
JAPAN
PRINTED IN JAPAN
LIT-11616-01-63**

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MAINTENANCE INTERVALS

Lubrication Intervals

[MX100F]

Item	Remarks	Type (Recommended lubricant)	Initial (hour)				Thereafter every (hour)		
			10	20	40	80	40	80	160
Transmission oil change	Warm engine before draining	No.1		○	○			○	
Drive chain	Lube/ Adjust as required	No.2	See service notes						
Drive chain	Remove/Clean/Lube/ Adjust	No.2			○		○		
Control cables	All-apply thoroughly	No.2			○	○		○	
Throttle grip and housing	Light application	No.3				○		○	
Brake pedal shaft	Light application	No.3			○			○	
Stand shaft pivot(s)	Light application	No.3			○			○	
Front forks	Drain completely	No.5				○		○	
Steering ball races	Inspect thoroughly/ Pack	No.4				○			○
Point cam lubrication wick	Very light application	No.6			○				○
Wheel bearings	Do not over-pack	No.4				○		○	

[MX175F]

Item	Remarks	Type (Recommended lubricant)	Initial (hour)				Thereafter every (hour)		
			10	20	40	80	40	80	160
Transmission oil change	Warm engine before draining	No. 1		○	○			○	
Drive chain	Lube/ Adjust as required	No. 2	See service notes						
Drive chain	Remove/Clean/ Lube/ Adjust	No. 2			○		○		
Control cables	All-apply thoroughly	No. 2			○	○		○	
Throttle grip and housing	Light application	No. 3				○		○	
Brake pedal shaft	Light application	No. 3			○			○	
Stand shaft pivot(s)	Light application	No. 3			○			○	
Front forks	Drain completely	No. 5				○		○	
Steering ball races	Inspect thoroughly/ Pack	No. 4				○			○

Recommended lubricant type:

1. Use Yamalube 4-cycle oil or SAE 10W/30 type "SE" motor oil.
2. Use Yamaha Chain/ Cable Lube or SAE 10W/30 type "SE" motor oil.
3. Use lithium base grease.
4. Medium-weight wheel bearing grease of quality manufacture -- preferably water-proof.
5. Use Yamaha fork oil 10Wt or SAE 20W motor oil.
6. Light-weight machine oil.

SERVICE NOTES:

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Drive chain must be lubricated every 0.5 ~ 1.0 hour. If unit is subjected to extremely hard use, chain must be inspected frequently and serviced as required.

Periodic Maintenance Intervals

Item	Remarks	Initial (hour)				Thereafter every (hour)	
		10	20	40	80	40	80
Brake system (complete)	Check/ Adjust as required — repair as required		○	○		○	
Clutch	Check/ Adjust as required		○	○		○	
Spark plug	Inspect/ Clean or replace as required	○	○	○		○	
Wheels and tires	Pressure/ Runout/ Spoke — tension	○	○	○		○	
Fittings and fasteners	Tighten before each trip and/ or	○	○	○		○	
Drive chain	Tension/ Alignment (No. 1)	○	○	○		○	
Air filter	Wet type — clean/ Replace as required (No. 2)		○	○	○	○	
Fuel cock	Clean/ Flush tank as required	○		○		○	
Ignition timing	Adjust (MX100)/ Clean or replace parts as required		○	○	○		○
Carburetor adjustment	Check operation/ Timings		○	○	○		○
Carburetor overhaul	Clean/ Repair as required/ Refit/ Adjust						160
Cylinder compression	Preventive maintenance check		○	○	○		○
Decarbonize engine	Includes exhaust system			○			○

SERVICE NOTES:

No. 1. DRIVE CHAIN: In addition to tension and alignment, chain must be lubricated every 0.5 ~ 1.0 hour. If unit is subjected to extremely hard usage and wet weather riding, chain must be checked constantly.

No. 2. AIR FILTER: Remove and clean filter every 20 ~ 40 hours.

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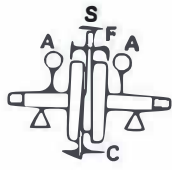
SPECIFICATIONS [MX100F]

General

Model: Model (I.B.M. No.) Frame I.D. & Starting Number Engine I.D. & Starting Number	3M1 3M1-000101 3M1-000101
Dimension: Overall Length Overall Width (standard) Overall Height (standard) Seat Height Wheelbase Minimum Ground Clearance	1,795 mm (70.7 in) 800 mm (31.5 in) 960 mm (37.8 in) 730 mm (28.7 in) 1,190 mm (46.9 in) 200 mm (7.9 in)
Weight: Net Weight	77 kg (170 lb.)
Performance: Minimum Turning Radius	1,810 mm (71.3 in)

Engine

Description: Engine Type Engine Model Displacement Bore × Stroke Compression Ratio Starting System Ignition System Lubrication System	Air cooled, 2-stroke gasoline, Torque induction 3M1 97 cc (5.92 cu. in) 52 × 45.6 mm (2.047 × 1.795 in) 6.7 : 1 Primary kick starter Magneto ignition Separate lubrication (Yamaha Autolube)
Cylinder head: Combustion Chamber Volume Combustion Chamber Type Head Gasket Thickness	12.4 cc (0.76 cu. in) Squish 0.7 mm (0.028 in)
Cylinder: Material Bore Size Taper Limit Out of Round Limit	Cast iron 52 mm (2.05 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Piston: Piston Skirt Clearance Piston Over Size Piston Pin Outside Diameter × Length	0.035 ~ 0.040 mm (0.0014 ~ 0.0016 in) 52.25, 52.50, 52.75, 53.00 mm (2.06, 2.07, 2.08, 2.09 in) 14 × 41 mm (0.55 × 1.61 in)
Pistons Ring: Piston Ring Design (Top) Piston Ring Design (2nd) Ring End Gap (Installed) (Top) Ring End Gap (Installed) (2nd) Ring Groove Side Clearance (Top) Ring Groove Side Clearance (2nd)	Keystone Plane (with expander) 0.3 ~ 0.5 mm (0.012 ~ 0.020 in) 0.3 ~ 0.5 mm (0.012 ~ 0.020 in) 0.03 ~ 0.05 mm (0.001 ~ 0.0020 in) 0.03 ~ 0.07 mm (0.001 ~ 0.0027 in)
Small end bearing: Type	Needle bearing

Big end bearing: Type	Needle bearing
Crankshaft: Crankshaft Assembly Width (F) Crankshaft Deflection (A) Connecting Rod Big End Side Clearance (C) Connecting Rod Small End Deflection (S) Crank Pin Outside Diameter × Length Crank Pin Type Crank Bearing Type (Left) × Q'ty Crank Bearing Type (Right) × Q'ty Crank Oil Seal Type (Left) × Q'ty Crank Oil Seal Type (Right) × Q'ty	50 $_{-0.10}^{+0.05}$ mm (1.97 $_{-0.004}^{+0.002}$ in) 0.03 mm (0.001 in) 0.2 ~ 0.8 mm (0.008 ~ 0.031 in) 0.8 ~ 2.0 mm (0.031 ~ 0.079 in) 22 × 48.7 mm (0.87 × 1.92 in) Hollow type 6304 × 1 6304 × 1 SD-20-40-8 SW-28-40-8
	
Clutch: Clutch Type Clutch Operating Mechanism Primary Reduction Ratio & Method Friction Plate — Thickness/Quantity Friction Plate — Wear Limit Clutch Plate — Thickness/Quantity Clutch Plate — Warp Limit Clutch Spring — Free Length/Quantity Clutch Spring — Warp Limit Clutch Housing Axial Play (Wear Limit) Push Rod Bending Limit	Wet, multiple disc type Inner push type, Cam axle 74/19 (3.895), Helical gear 3.0 mm (0.12 in) × 5 pcs. 2.7 mm (0.11 in) 1.2 mm (0.047 in) × 4 pcs. 0.05 mm (0.002 in) 31.5 mm (1.24 in) × 5 pcs. 30.5 mm (1.20 in) 0.15 ~ 0.45 mm (0.006 ~ 0.018 in) 0.15 mm (0.006 in)
Transmission: Type Gear Ratio 1st (Teeth) (Ratio) 2nd 3rd 4th 5th Transmission Gear Oil Quantity & Type Secondary Reduction Ratio & Method	Constant mesh, 5-speed forward 35/11 (3.181) 30/15 (2.000) 26/19 (1.368) 23/23 (1.000) 20/25 (0.800) 650 ± 50 cc (0.687 ± 0.05 US qt) Yamalube 4-cycle oil or SAE 10W/30 "SE" motor oil 48/14 (3.429) chain
Shifting Mechanism: Type	Guide bar, return type
Kick Starter: Type	Kick-and-mesh
Intake: Air Cleaner — Type/Quantity — Oil Grade Induction System Reed Valve Type Bending Limit Valve Lift	Wet-foam rubber Air cooled 2-stroke engine oil Reed valve V type 0.3 mm (0.012 in) 7 mm (0.28 in)

Carburetor: Type & Manufacturer/Quantity I. D. Mark Main Jet (M.J.) Air Jet (A.J.) Jet Needle-clip Position (J.N.) Needle Jet (N.J.) Cutaway (C.A.) Pilot Jet (P.J.) Air Screw (turns out) (A.S.) Starter Jet (G.S.) Fuel Level (F.L.)	Mikuni/1 3M100 #130 2.5 4L6-3 O-6 2.0 #17.5 1-1/2 30 21.0 ± 1.5 mm (0.83 ± 0.06 in)
Lubrication: Autolube Pump — Color Code Autolube Pump — Minimum Stroke Autolube Pump — Maximum Stroke Autolube Pump — Reduction Ratio Autolube Pump — Maximum Output/200 strokes Autolube Pump — Minimum Output/200 strokes Throttle Position (Adjusting Mark) Oil Tank Capacity Oil Grade	Green 0.20 ~ 0.25 mm (0.008 ~ 0.010 in) 1.85 ~ 2.05 mm (0.073 ~ 0.081 in) 1/40 0.25 ~ 0.31 cc 2.32 ~ 2.57 cc ▲ 1.0 l (1.1 US qt) Yamalube 2-cycle oil or Air-cooled 2-stroke engine oil

Chassis

Frame: Frame Design	Tubular, double cradle
Steering system: Caster Trail Number & Size of Balls in Steering Head Upper Race Lower Race Lock to Lock Angle	29° 103 mm (4.06 in) 3/16 in × 22 pcs 1/4 in × 19 pcs 47°
Front suspension: Type Damper Type Front Fork Cushion Travel Front Fork Spring Free Length Wire Diameter × Winding Diameter Spring Constant Inner Tube Outside Diameter Oil Seal Type Front Fork Oil Quantity & Type	Telescopic fork Coil spring, Oil damper 110 mm (4.33 in) 418.5 mm (16.48 in) 3 mm × 17.5 mm (0.12 × 0.69 in) 0.42 kg/mm, 0.57 kg/mm (23.5 lb/in), (31.9 lb/in) (0 ~ 70 mm) (70 ~ 110 mm) (0 ~ 2.8 in) (2.8 ~ 4.3 in) 27 mm (1.06 in) PJ27-39-10.5 116 ± 2 cc (3.9 ± 0.07 oz), SAE #20 Yamaha fork oil 10 wt or
Rear Suspension: Type Damper Type Rear Shock Absorber Travel Rear Wheel Travel Swing Arm Free Play Pivot Shaft — Outside Diameter Pivot Shaft — Type	Swing Arm Coil spring, Oil damper 75 mm (2.95 in) 84 mm (3.31 in) None 12 mm (0.47 in) Rubber bush

Fuel tank: Capacity Fuel Grade	4.5 l (1.2 US gal) Regular gasoline
Wheel: Tire Size (Front) (Rear) Tire Pressure (Front) (Rear) Rim Size (Front) (Rear) Rim Run Out Limit (Front/Rear) Vertical Lateral Secondary Drive Chain Type Type Number of Links Chain Free Play	2.50-18-4PR 3.00-16-4PR 1.0 kg/cm ² (14 psi) 1.2 kg/cm ² (18 psi) 1.40 × 18 1.60 × 16 2 mm (0.08 in) 2 mm (0.08 in) RS420 103 + joint 20 ~ 30 mm (0.8 ~ 1.2 in)
Brake: Front Brake Type Drum Diameter (Limit) Shoe Diameter × Width Shoe Spring Free Length Lining Thickness (Wear Limit) Rear Brake Type Drum Diameter Shoe Diameter × Wider Shoe Spring Free Length Lining Thickness (Wear Limit)	Leading, Trailing 110 mm 110 × 25 mm (4.33 × 0.98 in) 34.5 mm (1.36 in) 4 mm (0.16 in)/2 mm (0.08 in) Leading, Trailing 110 mm (4.33 in) 109.8 × 25 mm (4.32 × 0.98 in) 34.5 mm (1.36 in) 4 mm (0.16 in)/2 mm (0.08 in)

Electrical

Ignition system: Type — flywheel magneto (Contact breaker point) Model/Manufacturer Voltage Source coil resistance Flywheel puller thread size	F001T15971/Mitsubishi 6V 1.70 Ω ± 10 % 27 mm (1.08 in)
Ignition Timing:	1.8 mm ± 0.15 mm (0.071 ± 0.006 in)
Ignition Coil: Model/Manufacturer Spark gap Primary winding resistance Secondary winding resistance Diode Spark plug Type/Manufacture Spark plug gap Contact breaker Point gap Point spring pressure Condenser Capacity Insulation resistance	F006T41272/Mitsubishi 6 mm (0.24 in) 1 Ω ± 15% at 20°C (68°F) 5.9 KΩ ± 20% at 20°C (68°F) Yes B7ES/NGK 0.6 ~ 0.8 mm (0.024 ~ 0.031 in) 0.3 ~ 0.4 mm (0.012 ~ 0.016 in) 650 ~ 850 g 0.25 μF 5 MΩ

Tightening torque

Model	MX100F
Engine:	
Cylinder head	2.5 m-kG (18 ft-lb)
Spark plug	2.5 m-kG (18 ft-lb)
Primary drive gear	6.0 m-kG (43 ft-lb)
Clutch boss	5.0 m-kG (36 ft-lb)
Clutch spring	0.6 m-kG (4 ft-lb)
Drive sprocket	6.0 m-kG (43 ft-lb)
Kick crank	1.5 m-kG (11 ft-lb)
Reed valve	1.0 m-kG (7 ft-lb)
Starter	0.8 m-kG (6 ft-lb)
Chassis:	
Engine mount: front upper	2.5 m-kG (18 ft-lb)
rear upper	2.5 m-kG (18 ft-lb)
rear lower	4.0 m-kG (29 ft-lb)
Pivot shaft nut	4.5 m-kG (32 ft-lb)
Rear shock absorber (frame)	4.0 m-kG (29 ft-lb)
(swing arm)	2.5 m-kG (18 ft-lb)
Handle crown pinch bolt	2.5 m-kG (18 ft-lb)
Fitting bolt	7.0 m-kG (50 ft-lb)
Handle upper bracket	2.0 m-kG (14 ft-lb)
Under bracket pinch bolt	4.0 m-kG (29 ft-lb)
Front axle nut	4.5 m-kG (32 ft-lb)
Rear axle nut	4.0 m-kG (29 ft-lb)
Sprocket shaft nut	15.0 m-kG (108 ft-lb)
Drive sprocket bolt	2.0 m-kG (14 ft-lb)
Footrest bolt	2.0 m-kG (14 ft-lb)
Tensionbar (brake plate)	2.0 m-kG (14 ft-lb)
(rear arm)	2.0 m-kG (14 ft-lb)

SPECIFICATIONS [MX175F]

General

Model	MX175F
Model (I.B.M. No.) Frame I.D. & Starting Number Engine I.D. & Starting Number	3M2 3M2-000101 3M2-000101
Dimension: Overall Length Overall Width (standard) Overall Height (standard) Seat Height Wheelbase Minimum Ground Clearance	2,085 mm (82.1 in) 865 mm (34.1 in) 1,105 mm (43.5 in) 790 mm (31.1 in) 1,340 mm (52.8 in) 250 mm (9.8 in)
Weight: Net Weight	91 kg (211.7lb.)
Performance: Minimum Turning Radius	2,200 mm (86.6 in)

Engine

Description: Engine Type Engine Model Displacement Bore × Stroke Compression Ratio Starting System Ignition System Lubrication System	Air cooled, 2-stroke gasoline, Torque induction 3M2 171 cc (10.4 cu. in) 66 × 50.0 mm (2.60 × 1.97 in) 6.8:1 Primary kick starter C.D.I. Separate lubrication (Yamaha Autolube)
Cylinder head: Combustion Chamber Volume Combustion Chamber Type Head Gasket Thickness	23.9 cc (1.46 cu. in) Dome + Squish 0.5 mm (0.02 in)
Cylinder: Material Bore Size Taper Limit Out of Round Limit	Aluminum cylinder with cast iron sleeve 66 mm (2.60 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Piston: Piston Skirt Clearance Piston Over Size Piston Pin Outside Diameter × Length	0.040—0.045 mm (0.0016—0.0018 in) 66.25, 66.50, 66.75, 67.00 mm (2.61, 2.62, 2.63, 2.64 in) 16 × 57 mm (0.63 × 2.24 in)
Pistons Ring: Piston Ring Design (Top) Piston Ring Design (2nd) Ring End Gap (Installed) (Top) Ring End Gap (Installed) (2nd) Ring Groove Side Clearance (Top) Ring Groove Side Clearance (2nd)	Keystone Plane (with expander) 0.3—0.5 mm (0.012—0.020 in) 0.3—0.5 mm (0.012—0.020 in) 0.02—0.06 mm (0.0008—0.0024 in) 0.03—0.07 mm (0.001—0.0027 in)
Small end bearing: Type	Needle bearing

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Model	MX175F
Big end Bearing: Type	Needle bearing
Crankshaft: Crankshaft Assembly Width (F) Crankshaft Deflection (A) Connecting Rod Big End Side Clearance (C) Connecting Rod Small End Deflection (S) Crank Pin Outside Diameter × Length Crank Pin Type Crank Bearing Type (Left) Crank Bearing Type (Right) Crank Oil Seal Type (Left) Crank Oil Seal Type (Right)	56 ^{-0.05} _{-0.10} mm (2.20 ^{-0.002} _{-0.004} in) 0.03 mm (0.001 in) 0.2—0.8 mm (0.008—0.031 in) 0.8—2.0 mm (0.031—0.079 in) 22 × 55.6 mm (0.87—2.19 in) Hollow type 6205C4 6304C3 SD—24—40—8 SW—28—40—8
Clutch: Clutch Type Clutch Operating Mechanism Primary Reduction Ratio & Method Friction Plate—Thickness/Quantity —Wear Limit Clutch Plate—Thickness/Quantity Clutch Plate—Warp Limit Clutch Spring—Free Length/Quantity Clutch Spring—Wear Limit Clutch Housing Axial Play (Wear Limit) Push Rod Bending Limit	Wet, multiple disc type Inner push type, Cam axle 71/22 (3.227), Helical gear 3.0 mm (0.12 in) × 6 pcs. 2.7 mm (0.11 in) 1.2 mm (0.047 in) × 5 pcs. 0.05 mm (0.002 in) 33 mm (1.30 in) × 5 pcs. 32 mm (1.26 in) 0.15—0.45 mm (0.006—0.018 in) 0.2 mm (0.008 in)
Transmission: Type Gear Ratio 1st (Teeth) (Ratio) 2nd 3rd 4th 5th 6th Transmission Gear Oil Quantity & Type Secondary Reduction Ratio & Method	Constant mesh, 6-speed forward 35/10 (3.500) 31/14 (2.214) 28/18 (1.556) 25/21 (1.191) 22/23 (0.957) 20/25 (0.800) 650 cc (0.69 US qt) Yamalube 4-cycle oil SAE 10W/30 "SE" motor oil 49/15 (3.266)/Chain
Shifting Mechanism: Type	Return type (Guide bar)
Kick Starter: Type	Primary kick starter
Intake: Air Cleaner—Type/Quantity —Oil Grade Induction System Reed Valve Type Bending Limit Valve Lift	Wet-foam rubber SAE 10W/30 "SE" motor oil Reed valve V type 0.3 mm (0.012 in) 9 mm (0.35 in)
Carburetor: Type & Manufacturer/Quantity I.D. Mark Main Jet (M.J.)	VM24SS/Mikuni/1 3M200 #130

Model	MX175F
Air Jet (A.J.)	0.5
Jet Needle-clip Position (J.N.)	4L6-3
Needle Jet (N.J.)	0-2
Cutaway (C.A.)	3.0
Pilot Jet (P.J.)	#27.5
Air Screw (turns out) (A.S.)	1-1/4
Starter Jet (G.S.)	20
Float Level (F.L.)	21 ± 2.5 mm (0.83 ± 0.1 in)
Lubrication:	
Autolube Pump— Color Code	Gray
Autolube Pump— Minimum Stroke	0.20—0.25 mm (0.008—0.010 in)
Autolube Pump— Maximum Stroke	1.85—2.05 mm (0.073—0.081 in)
Autolube Pump— Reduction Ratio	24/22 × 40/1
Autolube Pump— Minimum Output/200 strokes	0.50—0.63 cc
Autolube Pump— Maximum Output/200 strokes	4.62—5.13 cc
Throttle Position (Adjusting Mark)	○
Oil Tank Capacity	1.0 l (1.1 US qt)
Oil Grade	Yamaha 2-cycle oil or Air cooled 2-stroke engine oil

Chassis

Frame: Frame Design	Tubular, double cradle
Steering system: Caster Trail Number & Size of Balls in Steering Head Upper Race Lower Race Lock to lock Angle	30° 124 mm (4.88 in) 3/16 in × 22 pcs 1/4 in × 19 pcs 45°
Front suspension: Type Damper Type Front Fork Travel Front Fork Spring Free Length Wire Diameter × Winding Diameter Spring Constant Inner Tube Outside Diameter Oil Seal Type Front Fork Oil Quantity & Type	Telescopic fork Coil spring, oil damper 160 mm (6.30 in) 453.5 mm (17.85 in) 3.2 mm (0.13 in) × 22.5 mm (0.89 in) 22.2 mm (0.87 in) K ₁ : 0.25 kg/mm, K ₂ : 0.351 kg/mm (0—140 mm) (140 mm—) 32 mm (1.26 in) SD32-44-10.5 179 cc (6.05 oz) Yamaha fork oil 10 wt or SAE 10W motor oil
Rear suspension: Type Gas pressure Gas properties Absorber stroke Wheel travel	Monocross 15 kg/cm ² (213 lb) Nitrogen gas 72 mm (2.83 in) 130 mm (5.12 in)

Model	MX175F
Compression spring Free length Set length Spring constant Number of windings Spring diameter Spring O.D. Swing Arm Free Play Pivot Shaft— Outside Diameter	248 mm (9.76 in) 243 mm (9.57 in) K ₁ : 4.1 kg/mm, K ₂ : 7.2 kg/mm 16.5 turns 9 mm (0.35 in) 57 mm (2.24 in) 0—1 mm (0—0.04 in) 12 mm (0.47 in)
Fuel tank: Capacity Fuel Grade	6.8 l (1.8 US gal) Regular
Wheel: Tire Size (Front) (Rear) Tire Pressure (Front) (Rear) Rim Size (Front) (Rear) Rim Run Out Limit (Front/Rear) Vertical Lateral Secondary Drive Chain Type Type Number of Links Chain Free Play	2.75—21—4PR 3.50—18—4PR 1.0 kg/cm ² (14 psi) 1.2 kg/cm ² (17 psi) 1.60×21 1.85×18 2 mm (0.08 in) 2 mm (0.08 in) DID 428 DSM 117 40 mm (1.75 in)
Brake: Front Brake Type Drum Diameter (Limit) Shoe Diameter × Width Shoe Spring Free Length Lining Thickness (Wear Limit) Rear Brake Type Drum Diameter Shoe Diameter × Wider Shoe Spring Free Length Lining Thickness (Wear Limit)	Leading, Trailing 110 mm (4.33 in) 110×25 mm (4.33×0.98 in) 34.5 mm (1.36 in) 4 mm/2 mm (0.08 in) Leading, Trailing 130 mm (5.12 in) 129.4×28 mm (5.09×1.1 in) 36.5 mm (1.44 in) 4 mm/2 mm (0.08 in)

Electrical

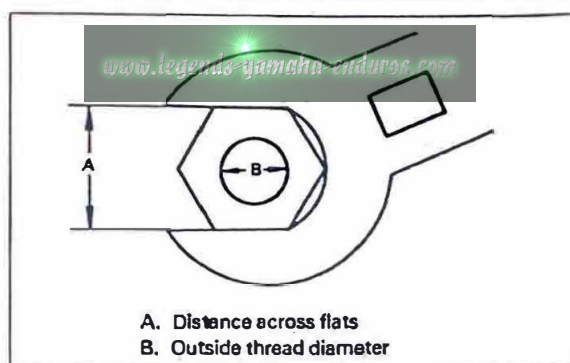
Model	MX175F
Ignition system: Type — Model/Manufacturer — Voltage — Charge coil resistance — Pulser coil resistance — Flywheel puller thread size	C.D.I. magneto F003T10471 (Mitsubishi) 6V 300 Ω ± 10% (Brown) 10 Ω ± 10% (White/Red) 27 mm (1.08 in)

Model	MX175F
Ignition Timing:	1.8 mm ± 0.15 mm (0.071 ± 0.006 in)
Ignition Coil:	F6T411/Mitsubishi
Model/Manufacturer	6 mm (0.24 in)
Spark gap	1.0 Ω ± 15% at 20°C
Primary winding resistance	5.9 kΩ ± 20% at 20°C
Secondary winding resistance	
Spark plug	B8ES/NGK
Type/Manufacture	0.6—0.8 mm (0.024 in—0.031 in)
Spark plug gap	
CDI unit	F08T02472/Mitsubishi
Type/Manufacture	

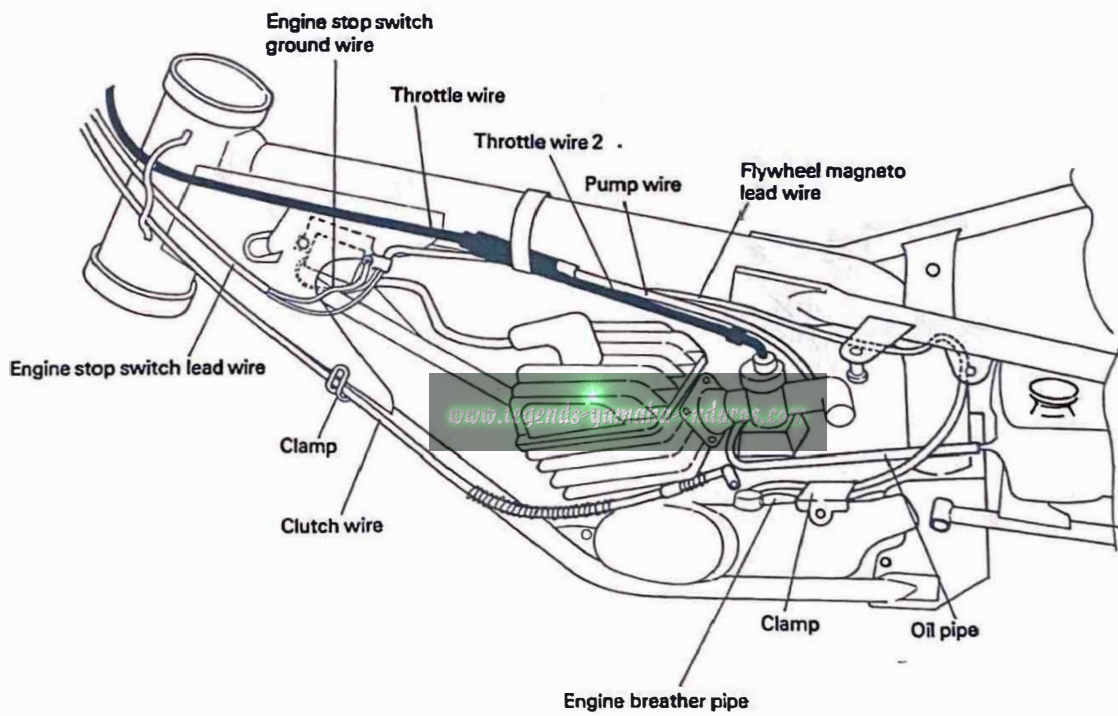
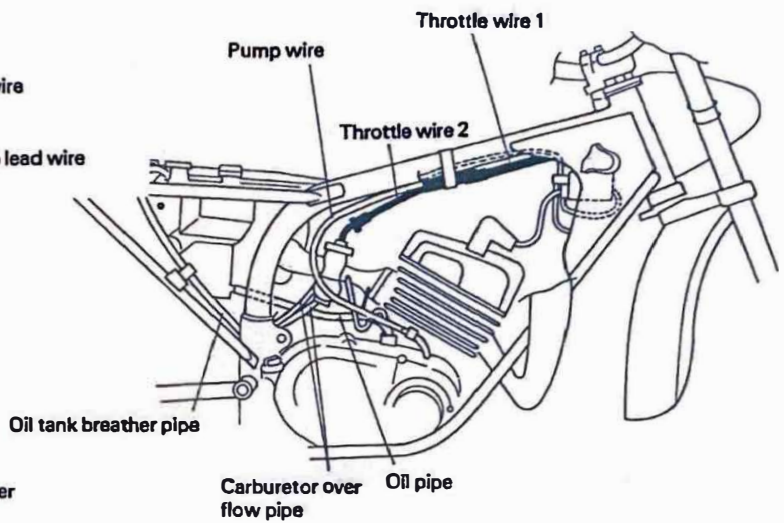
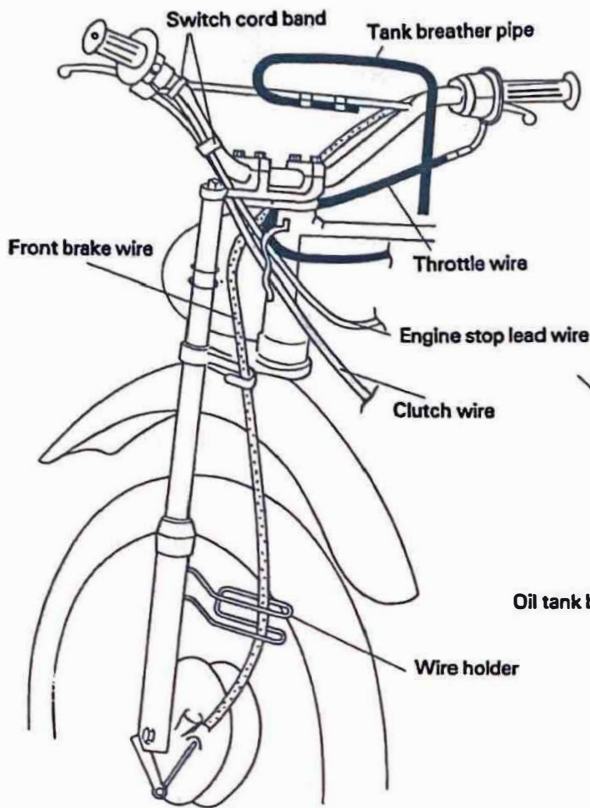
Tightening Torque

Model	MX175F
Engine:	
Cylinder	M8 2.5 m-kg (18 ft-lb)
Spark plug	M14 2.5 m-kg (18 ft-lb)
Cylinder	M10 3.8 m-kg (27 ft-lb)
Primary drive gear	M12 6.0 m-kg (43 ft-lb)
Clutch boss	M14 5.0 m-kg (36 ft-lb)
Clutch spring	M5 0.6 m-kg (4.3 ft-lb)
Drive sprocket	M16 5.5 m-kg (40 ft-lb)
Kick crank	M8 1.5 m-kg (11 ft-lb)
Reed valve	M3 0.1 m-kg (0.7 ft-lb)
Rotor nut	M12 5.5 m-kg (39.5 ft-lb)
Chassis:	
Engine mount front upper	M10 2.5 m-kg (18 ft-lb)
rear upper	M8 2.8 m-kg (20 ft-lb)
rear lower	M10 4.0 m-kg (29 ft-lb)
Pivot shaft nut	M12 4.5 m-kg (32.5 ft-lb)
Rear shock absorber (frame)	M8 2.5 m-kg (18 ft-lb)
Handle crown pinch bolt	M8 2.8 m-kg (20 ft-lb)
fitting bolt	M14 5.5 m-kg (40 ft-lb)
handle holder	M8 1.5 m-kg (11 ft-lb)
inner tube	M10 3.4 m-kg (24 ft-lb)
Front axle nut	M10 4.0 m-kg (29 ft-lb)
Front fork damper unit	M10 2.3 m-kg (16.5 ft-lb)
Rear axle nut	M14 8.5 m-kg (61 ft-lb)
Drive sprocket bolt	M10 4.0 m-kg (29 ft-lb)

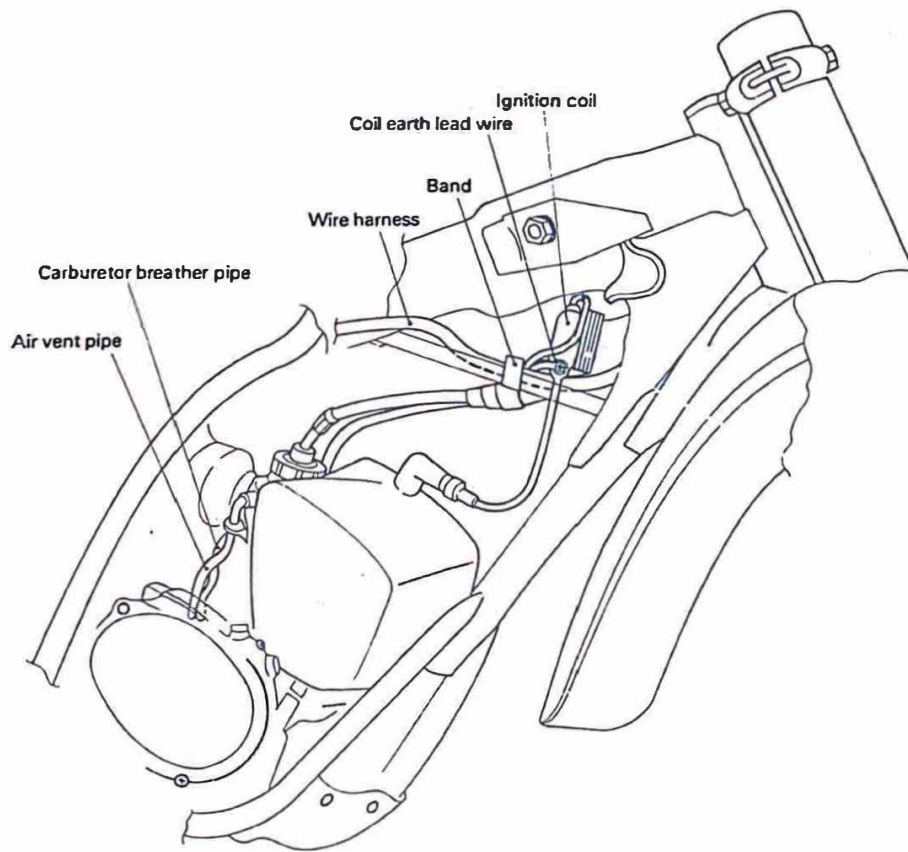
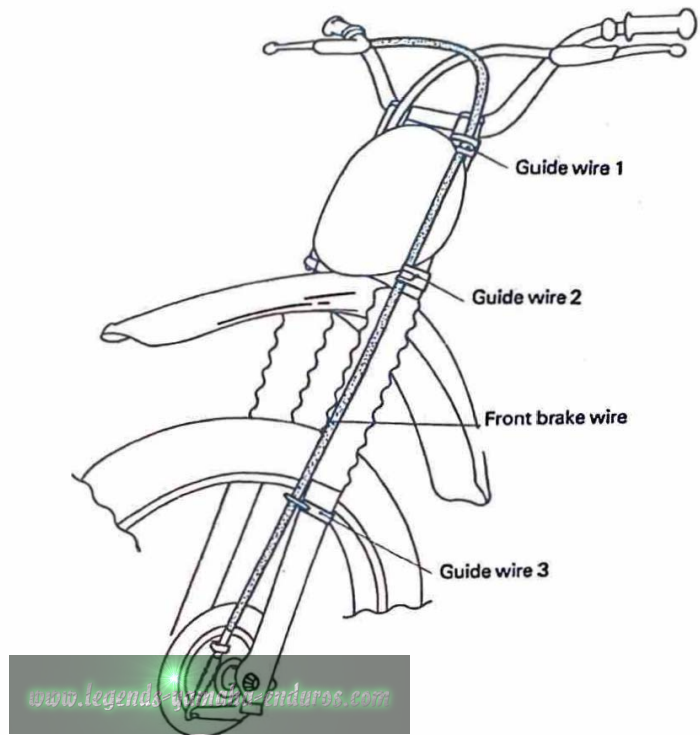
A	B	Torque Specification	
		m-kg	ft-lb
10mm	6 mm	0.6	4.5
12mm	8 mm	1.5	11.0
14 mm	10mm	3.0	22.0
17 mm	12mm	5.5	40.0
19 mm	14 mm	8.5	61.0
22 mm	16 mm	13.0	94.0

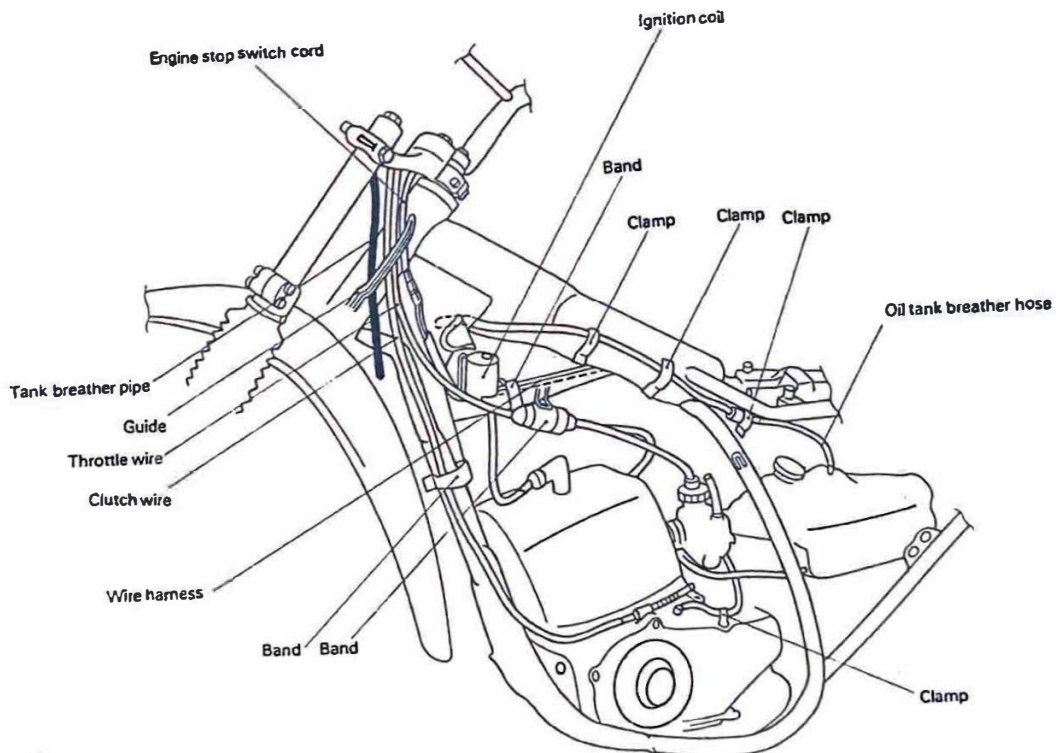
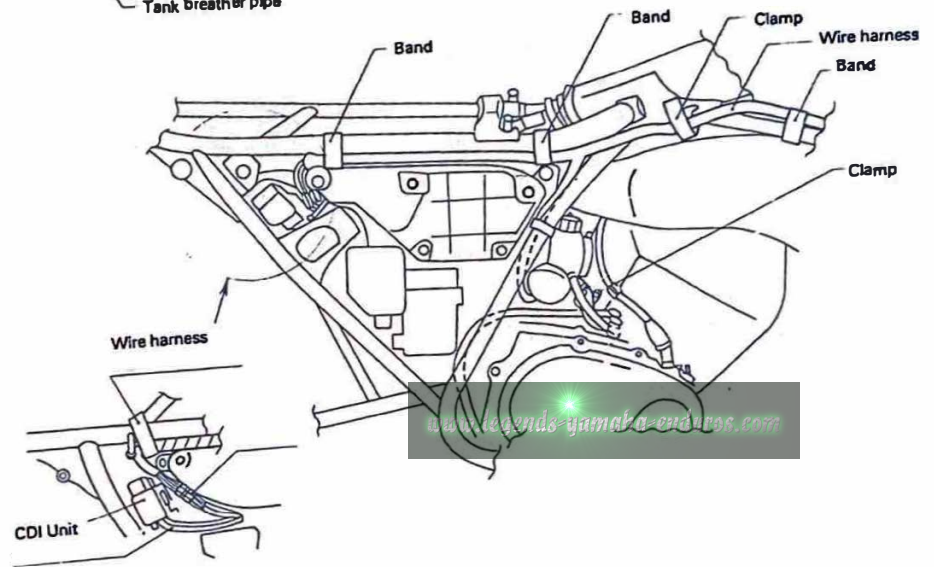
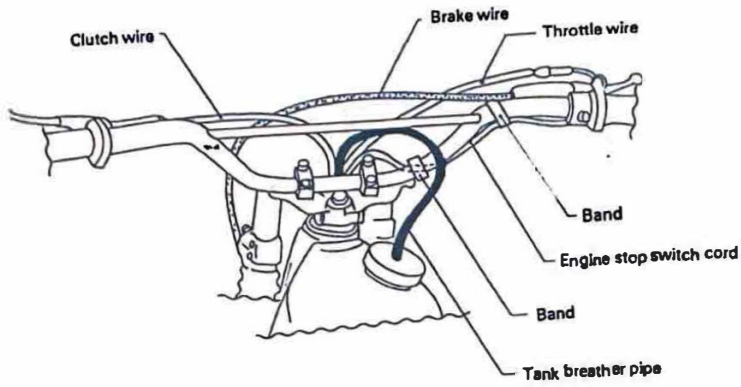


CABLE ROUTING [MX100F]

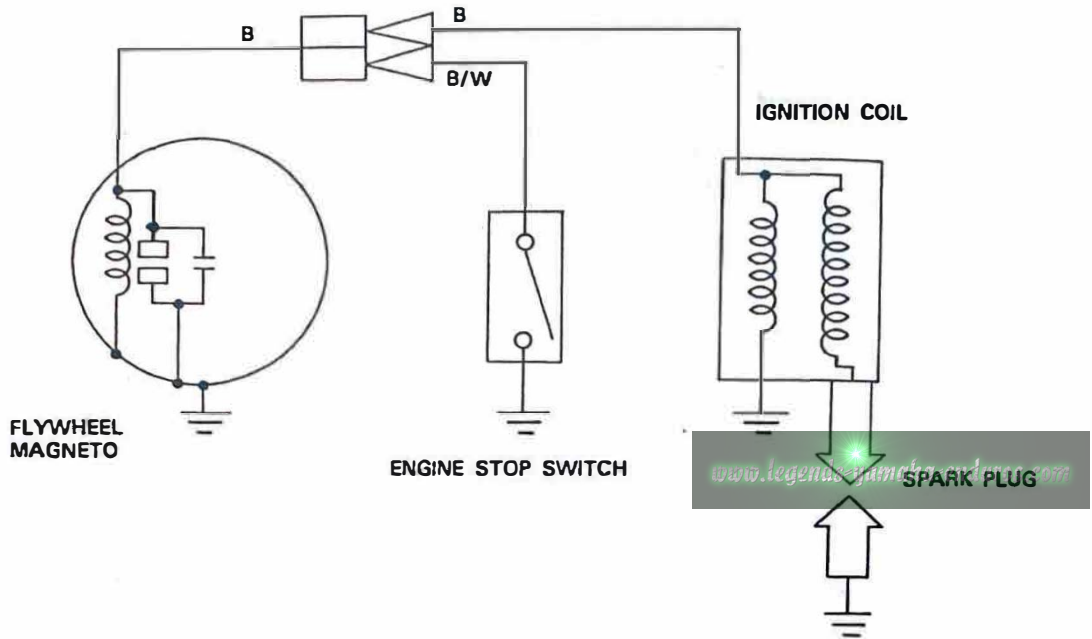


CABLE ROUTING [MX175F]

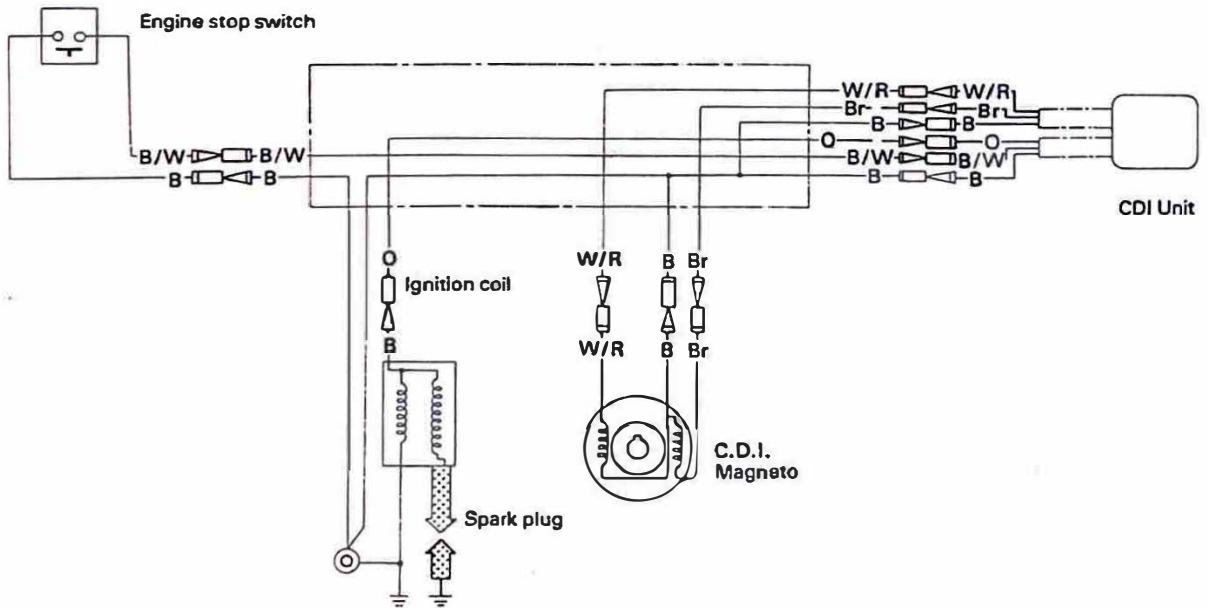




**WIRING DIAGRAM
[MX100F]**



[MX175F]



W/R	White/Red
B/W	Black/White
B	Black
O	Orange
Br	Brown
R	Red

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