

Product: 1999 Yamaha XT225-C,TTR225L,M Motocycle Service Repair Workshop Manual

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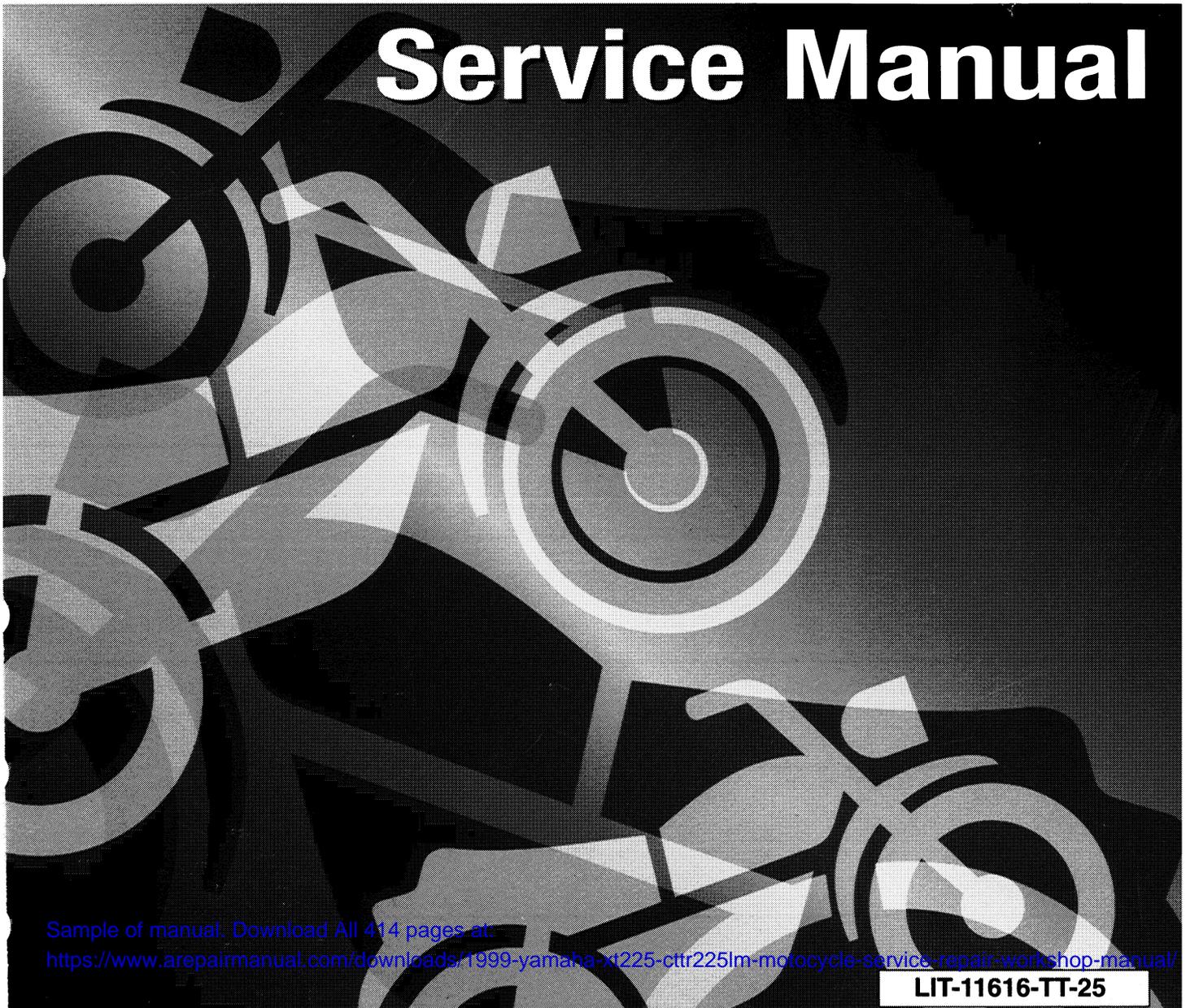
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YAMAHA

XT225-C TTR225L, M

Service Manual



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LIT-11616-TT-25

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the TTR225L/LC, M/MC. For complete service information and procedures, it is necessary to use this Supplementary Service Manual together with the following manual.

XT225D/DC ~ L/LC SERVICE MANUAL: LIT-11616-XT-25

TTR225L/LC, M/MC
Supplementary Service Manual

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October 1999

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Yamaha Motor Corporation, U.S.A.
is expressly prohibited.

Printed in U.S.A.

*Specifications, features and options are subject to
change without notice.*

99-224

NOTICE

This manual was written by Yamaha Motor Corporation, U.S.A. primarily for use by Yamaha Dealers and qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so persons using this book to perform maintenance and repairs on Yamaha motorcycles should have a basic understanding of the mechanical concepts and procedures inherent in motorcycle repair technology. Attempted repairs or service to the motorcycle without such knowledge, may render it unfit to use and/or unsafe.

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure the motorcycle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha Dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his motorcycle and to conform with federal environmental quality objectives.

Yamaha Motor Company, Ltd. is continually striving to improve all models manufactured by Yamaha. Modifications 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.

NOTE: _____

FOR U.S.A.

This Service Manual contains information regarding periodic maintenance to the Emission Control System. Please read this material carefully.

PARTICULARLY IMPORTANT INFORMATION

 The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

WARNING _____

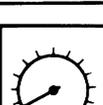
Failure to follow **WARNING** instructions could result in severe injury or death to the motorcycle operator, a bystander, or a person inspecting or repairing the motorcycle.

CAUTION: _____

A **CAUTION** indicates special precautions that must be taken to avoid damage to the motorcycle.

NOTE: _____

A **NOTE** provides key information to make procedures easier or clearer.

① GEN INFO 	② SPEC 	
③ INSP ADJ 	④ ENG 	
⑤ COOL 	⑥ CARB 	
⑦ CHAS 	⑧ ELEC 	
⑨ TRBL SHTG ?	⑩ 	
⑪ 	⑫ 	
⑬ 	⑭ 	
⑮ 	⑯ 	
⑰ 	⑱ 	⑲ 
⑳ 	㉑ 	㉒ 
㉓ 		

ILLUSTRATED SYMBOLS

(Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb-tabs to indicate the content of a chapter:

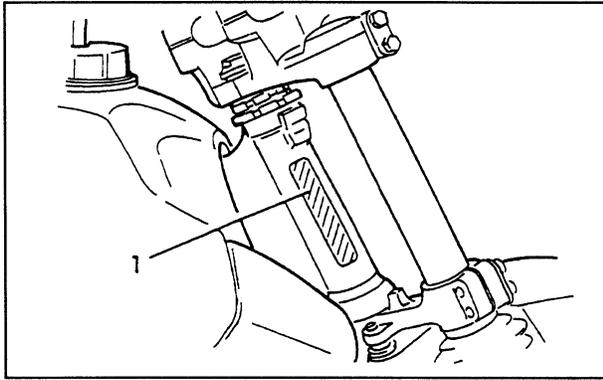
- ① General Information
- ② Specifications
- ③ Periodic Inspection and Adjustment
- ④ Engine
- ⑤ Cooling System
- ⑥ Carburetion
- ⑦ Chassis
- ⑧ Electrical
- ⑨ Troubleshooting

Illustrated symbols ⑩ to ⑯ are used to identify the specifications appearing in the text.

- ⑩ Filling Fluid
- ⑪ Lubricant
- ⑫ Special Tool
- ⑬ Tightening
- ⑭ Wear Limit, Clearance
- ⑮ Engine Speed
- ⑯ Ω, V, A

Illustrated symbols ⑰ to ㉓ in an exploded diagram indicate grade of lubricant and location of lubrication point:

- ⑰ Apply engine oil
- ⑱ Apply gear oil
- ⑲ Apply molybdenum disulfide oil
- ⑳ Apply wheel bearing grease
- ㉑ Apply lightweight lithium-soap base grease
- ㉒ Apply molybdenum disulfide grease
- ㉓ Apply locking agent (LOCTITE®)



MOTORCYCLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (VIN) ① is stamped into the right side of the steering head.

Vehicle Identification Number:

TTR225L/LC

USA - 9C6CG04W ()X0000101

Calif. - 9C6CG04Y ()X0000801

Can. - 9C6CG04W ()X0000501

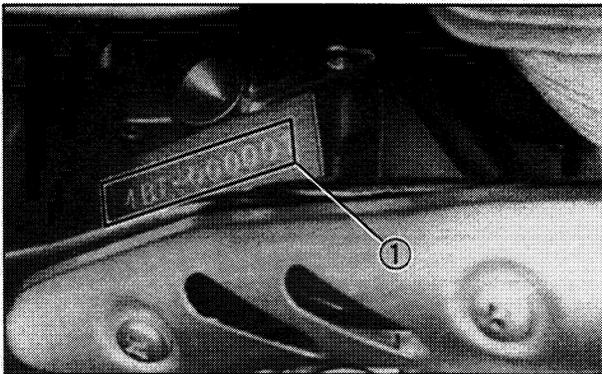
TTR225M/MC

USA - 9C6G043 ()Y0000101

Calif. - 9C6G04Y ()Y0001301

NOTE:

The Vehicle Identification Number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.



ENGINE SERIAL NUMBER

The Engine Serial Number ① is stamped into the elevated part of the right rear section of the engine.





GENERAL SPECIFICATIONS

Model:	TTR225L/LC	TTR225M/MC
Model Code Number:	5FG1 USA Except California 5FG2 USA For California 5FG3 Canada	5FG4 USA Except California 5FG5 USA For California
Vehicle Identification Number:		
USA	9C6CG04W()X0000101	TBA
Calif.	9C6CG04Y ()X0000801	TBA
Canada	9C6CG04W()X0000501	TBA
Dimensions:		
Overall Length	2,070mm	(81.5")
Overall Width	820mm	(32.2")
Overall Height	1,160mm	(45.7")
Seat Height	855mm	(33.6")
Wheelbase	1,350mm	(53.1")
Minimum Ground Clearance	285mm	(11.2")
Basic Weight:		
With oil and full fuel tank	126 kg	(278 lb)
Minimum Turning Radius	1,900mm	(74.8")
Engine:		
Engine Type	Air cooled 4-stroke, SOHC	
Cylinder Arrangement	Forward inclined single cylinder	
Displacement	223.21cm ³	
Bore x Stroke	70 x 58mm (2.76 x 2.28")	
Compression Ratio	9.5:1	
Compression Pressure Standard	1,200 kPa (12kg/cm ² , 171 psi)	
Starting System	Electric	
Lubrication System:		
Type	Wet Sump	
Engine Oil Type	Yamalube 4, SAE 20W40 type SE/SF motor oil or SAE 10W30 type SE/SF motor oil	
Oil Capacity:		
Periodic Oil Change	1.0L (0.88 Imp qt, 1.06 US qt)	
With Oil Filter Replacement	1.1L (0.97 Imp qt, 1.16 US qt)	
Total Amount	1.3L (1.14 Imp qt, 1.37 US qt)	
Air Filter:		
Type	Wet-type element	



GENERAL SPECIFICATIONS

Model:	TTR225L/LC, M/MC	
Fuel: Type Fuel Tank Capacity Fuel Reserve Amount	Unleaded Fuel Recommended (USA) Regular Unleaded Gasoline (CDN) 10L (2.2 Imp gal, 2.64 U.S. gal.) 1.8L (.39 Imp gal, .47 U.S. gal)	
Carburetor: Type/Quantity Manufacturer	BST34/1 pc. Mikuni	
Spark Plug: Type/Plug Gap/Manufacturer	DR8EA/0.6~0.7mm (0.02~0.03") NGK X24ESR-U/0.6~0.7mm (0.02~0.03") Nippondenso	
Clutch: Type	Wet, multiple disc	
Transmission: Type Operation Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Gear Ratio 1st 2nd 3rd 4th 5th 6th	Constant mesh 6-speed Left foot operation Spur gear 73/22 (3.318) Chain drive 58/15 (3.867) 34/11 (3.090) 30/15 (2.000) 30/21 (1.428) 27/24 (1.125) 25/27 (0.925) 23/29 (0.793)	
Chassis: Frame Type Caster Angle Trail	Diamond 26.5° 102mm (4.0")	
Tire:	Front	Rear
Type Size Manufacture (Type)	With tube 80/100-21 Pirelli (51PMT21)	With tube 100/100-18 Pirelli (59PMT21)

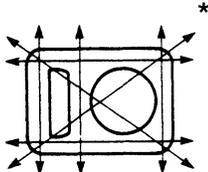
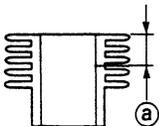
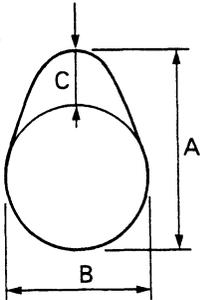


GENERAL SPECIFICATIONS

Model:	TTR225L/LC, M/MC
Tire Pressure (Cold Tire): Cold Tire Pressure (Front & Rear)	100 kPa (1.00 kgf/cm ²) (15 psi)
Brake: Front Brake Type Front Brake Operation Rear Brake Type Rear Brake Operation	Single Disc Brake Right Hand Operation Drum Brake Right Foot Operation
Suspension: Front Rear	Telescopic Fork Swingarm (new monocross)
Shock Absorber: Front Rear	Coil — Air Spring/Oil Damper Coil — Gas Spring/Oil Damper
Wheel Travel: Front Rear	225mm (8.9") 190mm (7.5")
Electrical: Ignition System Generator System Battery Type Battery Capacity	CDI AC Magneto Generator HS7B-B 12V, 7Ah

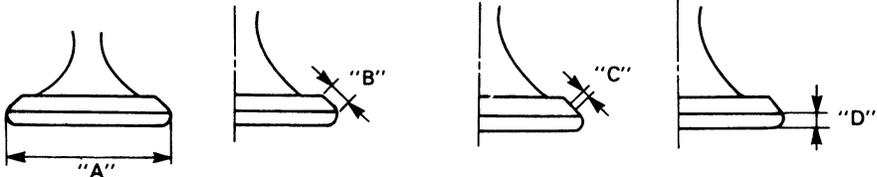
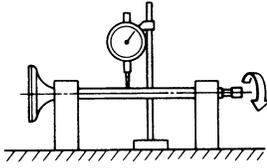
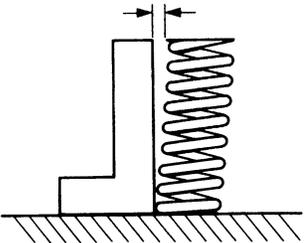
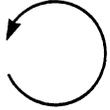
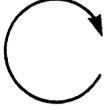


MAINTENANCE SPECIFICATIONS — ENGINE

<p>Model:</p>	<p>TTR225L/LC, M/MC</p>
<p>Cylinder Head: <Warp Limit></p> 	<p><0.03mm (0.0012")> *Lines indicate straightedge measurement.</p>
<p>Cylinder: Bore size <Warp limit> Measuring point ①</p> 	<p>69.970~70.020mm (2.7547~2.7567") <70.1mm (2.76")> 40mm (1.6")</p>
<p>Camshaft: Drive Method Camshaft Outside Diameter Shaft-to-Cap Clearance Cam Dimensions Intake "A" "B" "C" Exhaust "A" "B" "C" <Camshaft Runout Limit></p> 	<p>Chain Drive (left) 24.960~24.980mm (0.9827~0.9835") 0.020~0.061mm (0.0008~0.0024") 36.51~36.61mm (1.437~1.441") 30.10~30.20mm (1.185~1.189") 6.50~6.62mm (0.256~0.261") 36.51~36.61mm (1.437~1.441") 30.15~30.25mm (1.187~1.191") 6.50~6.62mm (0.256~0.261") <0.03mm (0.0012")></p>
<p>Cam Chain: Cam Chain Type Number of Links Cam Chain Adjustment Method</p>	<p>DID25SH 104 Links Automatic</p>
<p>Rocker Arm/Rocker Arm Shaft: Rocker Arm Inside Diameter Shaft Outside Diameter Arm-to-Shaft Clearance</p>	<p>12.000~12.018mm (0.472~0.473") 11.981~11.991mm (0.4717~0.4721") 0.009~0.037mm (0.0004~0.0015")</p>
<p>Valve, Valve Seat, Valve Guide: Valve Clearance (Cold): Intake Exhaust Valve Dimensions: Intake "A" Head Diameter "B" Face Width "C" Seat Width "D" Margin Thickness</p>	<p>0.05~0.09mm (0.002~0.004") 0.15~0.19mm (0.006~0.007") 33.9~34.1mm (1.33~1.34") 3.68mm (0.145") 0.9~1.1mm (0.03~0.04") 0.8~1.2mm (0.03~0.05")</p>

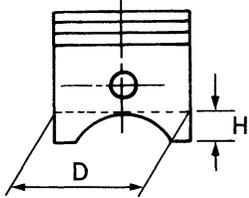
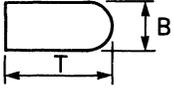
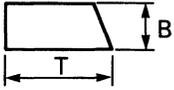
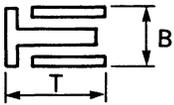
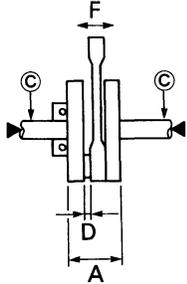


MAINTENANCE SPECIFICATIONS — ENGINE

Model:		TTR225L/LC, M/MC		
Exhaust: "A" Head Diameter "B" Face Width "C" Seat Width "D" Margin Thickness		28.4~28.6mm (1.12~1.13") 3.68mm (0.145") 0.9~1.1mm (0.03~0.04") 0.8~1.2mm (0.031~0.050")		
				
Stem Outside Diameter: Intake Exhaust Guide Inside Diameter: Intake Exhaust Stem-to-Guide Clearance: Intake Exhaust <Stem Runout Limit>		5.975~5.990mm (0.2352~0.2358") 5.960~5.975mm (0.2346~0.2352") 6.000~6.012mm (0.2362~0.2367") 6.000~6.012mm (0.2362~0.2367") 0.010~0.037mm (0.0004~0.0015") 0.025~0.052mm (0.0010~0.0020") <0.010mm (0.0004")>		
Valve Seat Width: Intake Exhaust		 0.9~1.1mm (0.03~0.04") 0.9~1.1mm (0.03~0.04")		
Valve Spring: Free Length: Intake Exhaust Set Length (Valve Closed) Intake Exhaust Direction of Winding (Top View)		Inner Spring	Outer Spring	
		36.17mm (1.424") 36.17mm (1.424") 30.5mm (1.20") 30.5mm (1.20") Counterclockwise	36.63mm (1.442") 36.63mm (1.442") 32.0mm (1.26") 32.0mm (1.26") Clockwise	
<Tilt Limit> Intake Exhaust				
		<2.5°/1.6mm (0.063")> <2.5°/1.6mm (0.063")>	<2.5°/1.6mm (0.063")> <2.5°/1.6mm (0.063")>	



MAINTENANCE SPECIFICATIONS — ENGINE

<p>Model:</p>	<p>TTR225L/LC, M/MC</p>
<p>Piston: Piston Size "D" Measuring Point "H" Oversize 2nd Oversize 4th</p>  <p>Piston Off-set Piston Off-set Direction Piston-to-Cylinder Clearance <Limit></p>	<p>69.925~69.975mm (2.7530~2.7549") 4.0mm (0.16") 70.50mm (2.776") 71.00mm (2.795")</p> <p>0.5mm (0.02") Intake Side 0.035~0.055mm (0.0014~0.0022") <0.10mm (0.004")></p>
<p>Piston Ring: Type: Top Ring 2nd Ring Dimensions (BxT): Top Ring</p>  <p>2nd Ring</p>  <p>Oil Ring</p>  <p>End Gap (Installed): Top Ring 2nd Ring Oil Ring Side Clearance (Installed): Top Ring 2nd Ring</p>	<p>Barrel Taper</p> <p>B=1.2mm (0.05") T=2.8mm (0.11")</p> <p>B=1.2mm (0.05") T=2.8mm (0.11")</p> <p>B=2.5mm (0.10") T=2.8mm (0.11")</p> <p>0.15~0.30mm (0.006~0.012") 0.15~0.30mm (0.006~0.012") 0.30~0.90mm (0.012~0.035")</p> <p>0.03~0.07mm (0.001~0.003") 0.02~0.06mm (0.001~0.002")</p>
<p>Crankshaft: Crank Width "A" <Runout Limit "C"> Big End Side Clearance "D" Small End <Free Play Limit "F"></p> 	<p>55.95~56.00mm (2.203~2.205") <0.03mm (0.0012")></p> <p>0.35~0.65mm (0.013~0.026")</p> <p><0.8mm (0.031")></p>
<p>Balancer: Drive Method</p>	<p>Gear</p>



MAINTENANCE SPECIFICATIONS — ENGINE

Model:	TTR225L/LC, M/MC
Clutch:	
Friction Plate:	
Thickness	2.90~3.10mm (0.114~0.122")
Quantity	6 pcs.
<Wear Limit>	<2.80mm (0.110")>
Clutch Plate:	
Thickness	1.50~1.70mm (0.059~0.067")
Quantity	5 pcs.
<Warp Limit>	<0.20mm (0.008")>
Clutch Spring	
Free Length	37.3mm (1.47")
Quantity	4 pcs.
Minimum Free Length	35.3mm (1.39")
Clutch Housing:	
Thrust Clearance	0.010~0.044mm (0.0004~0.0017")
Clutch Release Method	Inner push, cam push
<Push Rod Bending Limit>	<0.05mm (0.02")>
Transmission:	
<Main Axle Runout Limit>	<0.08mm (0.003")>
<Drive Axle Runout Limit>	<0.08mm (0.003")>
Shifter:	
Type	Cam Drum and Guide Bar
Carburetor:	
ID Mark	5FG1-00
Main Jet (M.J.)	#130
Main Air Jet Size (M.A.J.)	1.0
Jet Needle (J.N.)	5DL27-1
Needle Jet (N.J.)	O-1
Pilot Air Jet Size (P.A.J.1)	#60
(P.A.J.2)	1.2
Pilot Jet (P.J.)	#40
Pilot Outlet (P.O.)	0.85
Bypass 1 (B.P.1)	0.8
Pilot Screw (P.S.)	2-1/8
Valve Seat Size (V.S.)	2.0
Starter Jet (G.S.1)	65
(G.S.2)	0.8
Fuel Level (F.L.)	11.0~12.0mm (0.43~0.47")
(with special tool)	Below from the float chamber mating surface (front)
Float Height (F.H.)	14.1~15.1mm (0.56~0.59")
	Below from the float chamber mating surface (front)
Engine Idle Speed	1,300~1,500 r/min
Intake Vacuum	220~240 mmHg



MAINTENANCE SPECIFICATIONS — ENGINE

Model:	TTR225L/LC, M/MC
Lubrication System:	
Oil Filter:	
Type	Wire Mesh Type
Oil Pump:	
Type	Trochoid Type
Tip Clearance	0.15mm (0.006")
Side Clearance	0.04~0.09mm (0.002~0.004")
Pressure Checking Location	Cylinder Head



MAINTENANCE SPECIFICATIONS — CHASSIS

Model:	TTR225L/LC, M/MC
Steering System: Bearing Type No./Size of Steel Balls (Upper)	Ball and taper roller bearing 22 pcs. 0.1875 (3/16")
Front Suspension: Front Fork Travel Front Spring Free Length <Minimum Free Length> Spring Rate (K1) (K2) Stroke (K1) (K2) Optional Spring Oil Capacity Oil Level Oil Grade Enclosed Air Pressure: Standard (Min.~Max.)	225mm (8.9") 594.7mm (23.41") 588.8mm (23.18") 6.9 N/m (0.69 Kg/mm) 7.8 N/m (0.78 Kg/mm) Zero~78.5mm (Zero~3.09") 78.5~230.0mm (3.09~9.06") No 366cm ³ (12.8 Imp oz., 12.3 US oz) 140mm (5.5") From top of inner tube fully compressed without spring Fork oil 10W or equivalent Zero kPa (Zero kg/cm ² , Zero psi) Zero~40 kPa (Zero~0.4 kg/cm ² , Zero~5.7 psi)
Rear Suspension: Shock Absorber Travel Spring Free Length Fitting Length Spring Rate (K1) Stroke (K1) Optional Spring Enclosed Gas Pressure	72mm (2.8") 189mm (7.4") 174mm (6.9") 67.2 N/mm (6.85 kg/mm) Zero~94mm (Zero~3.7") No 1961 kPa (20kg/cm ² , 284 psi)
Swing Arm: <Free Play Limit> Side Clearance <Free Play Limit>	<1.0mm (0.04")> at swing arm end Move swing arm end side to side. 0.4~0.7mm (0.02~0.03") at swing arm pivot <1.0mm (0.04")> at swing arm pivot
Front Wheel: Type Rim Size Rim Material <Rim Runout Limit> Vertical Lateral	Spoke wheel 1.85 x 21 Steel <2.0mm (0.08")> <2.0mm (0.08")>



MAINTENANCE SPECIFICATIONS — CHASSIS

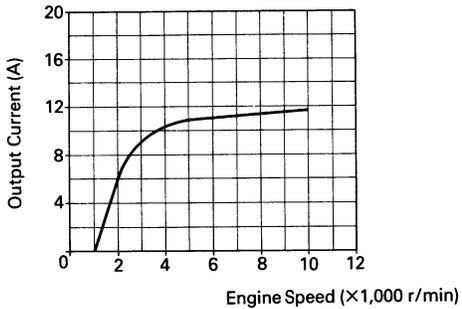
Model:	TTR225L/LC, M/MC
Rear Wheel: Type Rim Size Rim Material <Rim Runout Limit> Vertical Lateral	Spoke wheel 2.15 x 18 Steel <2.0mm (0.08")> <2.0mm (0.08")>
Drive Chain: Type/Manufacturer Number of Links Chain Slack	428V2/DAIDO 127 35~45mm (1.38~1.77")
Front Disc Brake: Type Disc Outside Diameter Disc Thickness Pad Thickness <Wear Limit> Master Cylinder Inside Diameter Caliper Cylinder Inside Diameter Brake Fluid Type	Single 220mm (8.7") 3.5mm (0.14") 6.0mm (0.24") <0.8mm (0.03")> 11mm (0.4") 34.93mm (1.375") DOT No. 4 or DOT No. 3
Rear Drum Brake: Type Brake Drum Inside Diameter <Limit> Lining Thickness <Limit> Shoe Spring Free Length	Leading, Trailing 130mm (5.11") <131mm (5.15")> 4.0mm (0.16") <2mm (0.08")> 36.5mm (1.43")
Brake Lever and Pedal: Brake Lever Free Play Brake Pedal Position Brake Pedal Free Play	2.0~5.0mm (0.08~0.20") at end of brake lever. 10mm (0.4") below top of footrest. 20~30mm (0.8~1.2")
Clutch Lever and Throttle Grip: Clutch Lever Free Play Throttle Cable Free Play	10~15mm (0.4~0.6") at clutch lever end. 3.0~5.0mm (0.12~0.20") at grip flange.

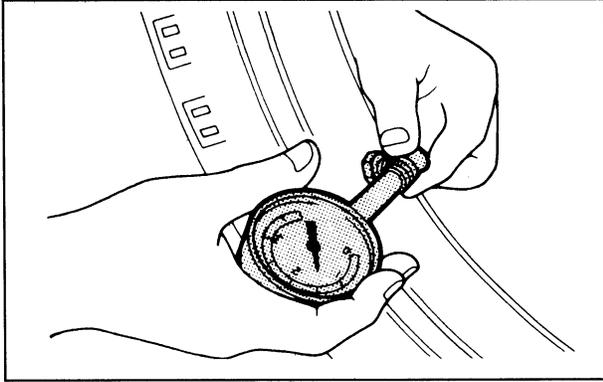


MAINTENANCE SPECIFICATIONS — ELECTRICAL

Model:	TTR225L/LC, M/MC
Voltage:	12V
Ignition System: Ignition Timing (B.T.D.C.) Advanced Timing (B.T.D.C.) Advancer Type	9° at 1,400 r/min 31°/6,000 r/min Electrical type
<p>The graph plots Ignition Timing (B.T.D.C.) on the y-axis (ranging from 10 to 30) against Engine Speed (×1,000 r/min) on the x-axis (ranging from 0 to 12). A solid line represents the ignition timing, and a dashed line represents the advanced timing. Key data points are: 9° at 1,400 r/min; 11° at 2,100 r/min; 27° at 4,250 r/min; 31° at 6,000 r/min; and 29.5° at 9,000 r/min.</p>	
CDI: Unit Model/Manufacturer Pickup Coil Resistance (Color) Charging Coil Resistance (Color)	4JG/YAMAHA 280~420Ω at 20°C (68°F) W/L-W/R 600~900Ω at 20°C (68°F) B/R-G/W 482~708Ω at 20°C (68°F) G/L-G/W
Ignition Coil: Model/Manufacturer Primary Coil Resistance Secondary Coil Resistance Minimum Spark Gap	2JN/YAMAHA 0.56~0.84Ω at 20°C (68°F) 5.68~8.52kΩ at 20°C (68°F) 6.0mm (0.24")
Spark Plug Cap: Type Resistance	Resin type 10kΩ at 20°C (68°F)
Charging System: Type	A.C. magneto generator

MAINTENANCE SPECIFICATIONS — ELECTRICAL

Model:	TTR225L/LC, M/MC
A.C. Generator: Model/Manufacturer Charging Output	F4JG/YAMAHA 14V, 10A at 5,000 r/min
 <p>Output Current (A)</p> <p>Engine Speed (×1,000 r/min)</p>	
Stator Coil Resistance (Color)	0.48~0.72Ω at 20°C (68°F) (White-White)
Voltage Regulator/Rectifier: Model/Manufacturer Voltage Regulator: Type No Load Regulated Voltage Rectifier: Capacity	SH6298-11/Shindengen Semi conductor - Short circuit type 14.1~14.9 25A
Battery: Specific Gravity	HS7B-B/12V7Ah 1.260
Electric Starter System: Type	Constant mesh type
Starter Motor: Model/Manufacturer Output Brush Overall Length <Limit> Commutator Diameter <Limit> Mica Undercut (Depth)	3RW1/YAMAHA 0.4 kW 10.0mm (0.39") <3.5mm (0.14")> 22.0mm (0.87") <21.0mm (0.83")> 1.5mm (0.06")
Starter Relay Model/Manufacturer Amperage Rating	MS5D-191/HITACHI 100A
Circuit Breaker: Type Amperage for Individual Circuit x Qty: Main Reserve	Fuse 15A/1 pc. 15A/1 pc.



TIRE INSPECTION

The following shows only the difference(s) from the XT225.

1. Measure:
 - Tire Pressure
 - Out of specification → Adjust.

⚠ WARNING

- Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature.

Basic Weight: With oil and full fuel tank	126kg (278 lb)
--	----------------

Cold Tire Pressure	Front	Rear
Off-Road Riding Up to 90 kg (198 lb) load	100 kPa (1.0kgf/cm ² , 15 psi)	100 kPa (1.0kgf/cm ² , 15 psi)



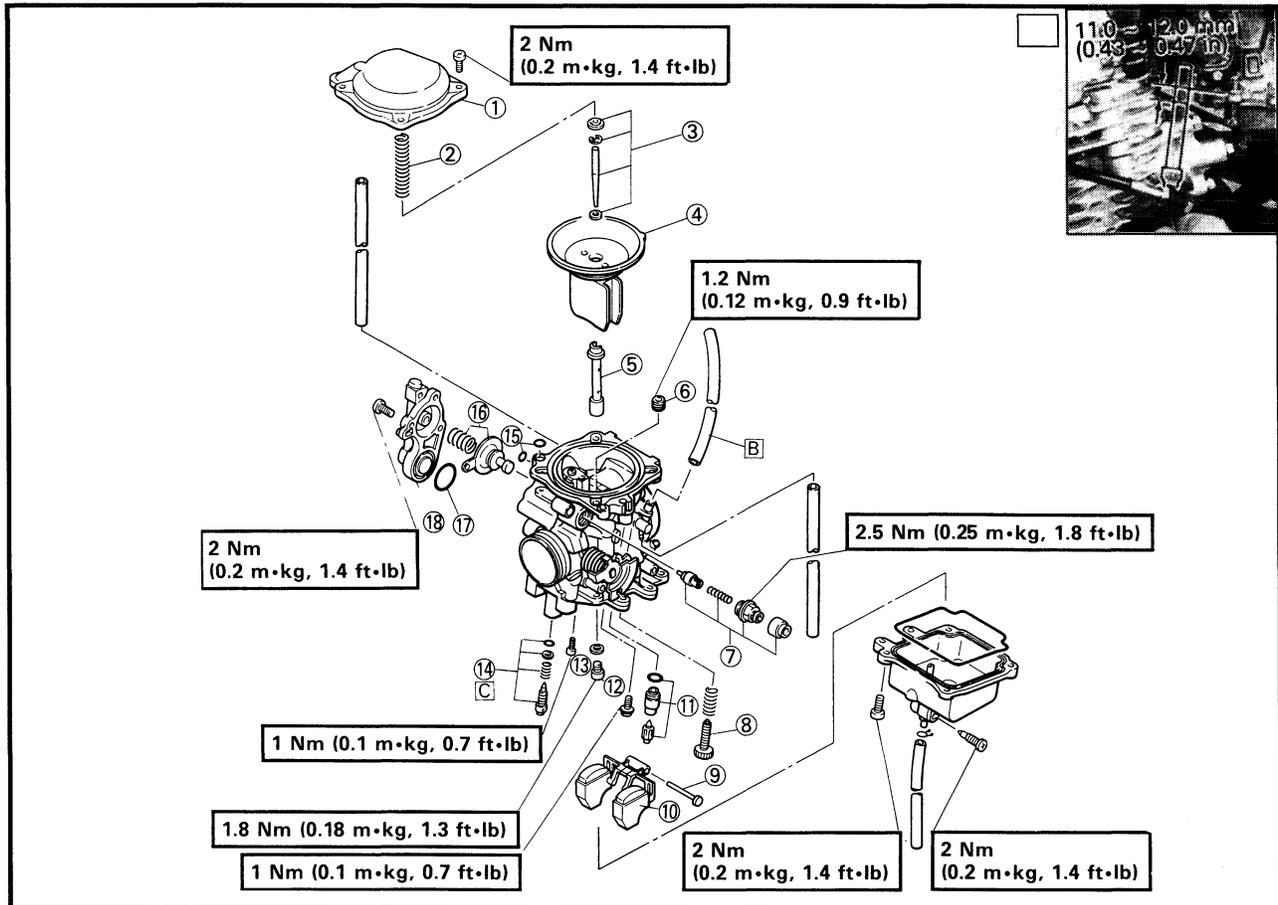
CARBURETION

CARBURETOR

- ① Diaphragm Cover
- ② Diaphragm Spring
- ③ Jet Needle Set
- ④ Diaphragm Assembly
- ⑤ Needle Jet
- ⑥ Pilot Air Jet
- ⑦ Starter Plunger Assembly
- ⑧ Throttle Stop Screw
- ⑨ Float Pin
- ⑩ Float
- ⑪ Needle Valve Set
- ⑫ Main Jet
- ⑬ Pilot Jet
- ⑭ Pilot Screw
- ⑮ O-Ring
- ⑯ Diaphragm Assembly (coasting enricher)
- ⑰ O-Ring
- ⑱ Cover Assembly

SPECIFICATIONS		
ID MARK	5FG1-00 (USA-Except for California) 5FG1-00 (USA-For California)	5FG1-00 (CDN)
Main Jet (M.J.)	#130	#130
Pilot Jet (P.J.)	#40	#40
Jet Needle (J.N.)	5DL27-1	5DL27-1
Needle Jet (N.J.)	O-1	O-1
Pilot Screw	2-1/8	2-1/8
Float Height (F.H.)	14.1~15.1mm (0.56~0.59 in)	
Fuel Level A (F.L.)	11.0~12.0mm (0.43~0.47 in) Below from the float chamber mating surface (front)	
Engine Idling Speed	1,300~1,500 r/min	

B Except for USA-California



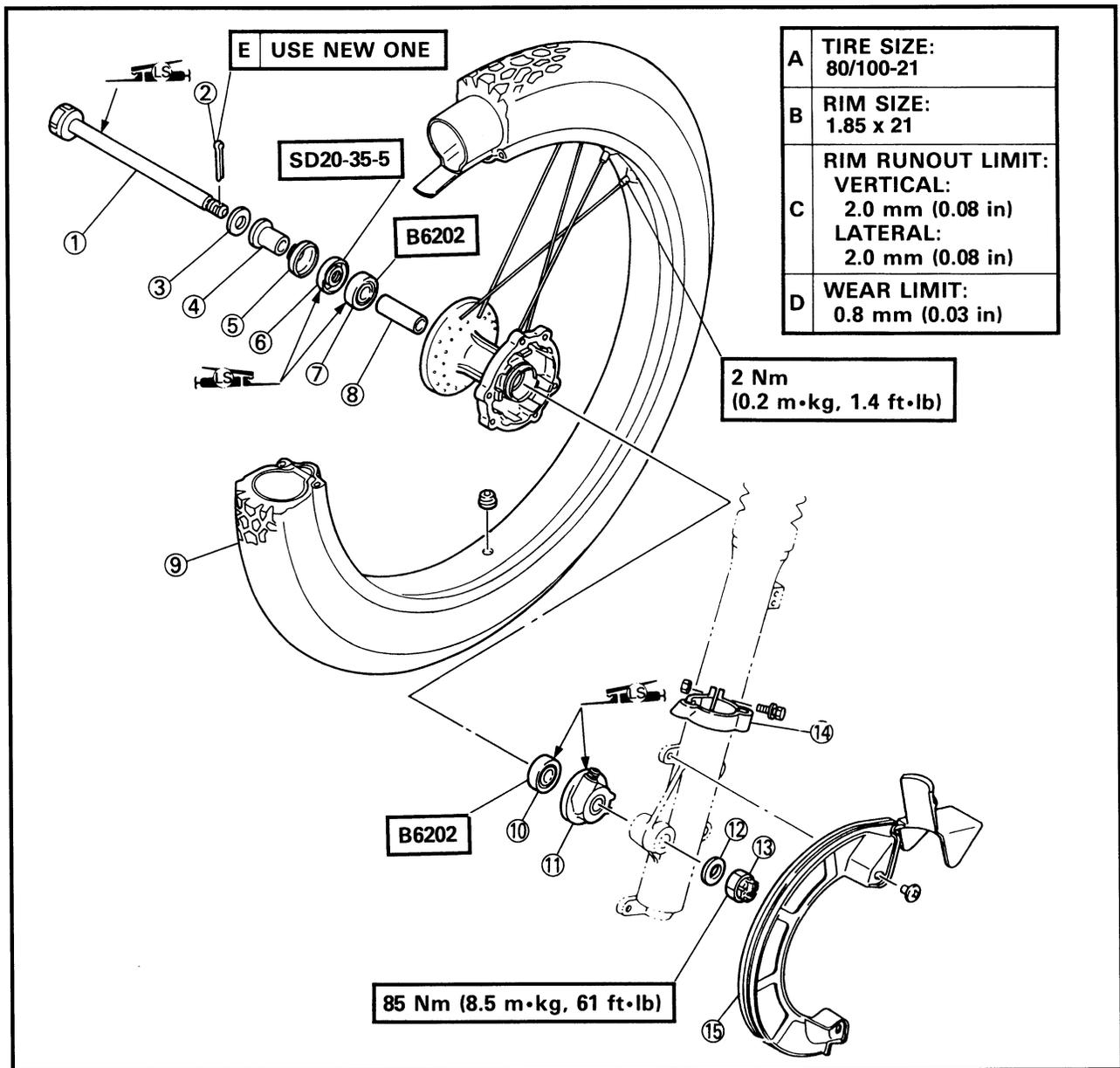


CHASSIS

FRONT WHEEL

- ① Wheel Axle
- ② Cotter Pin
- ③ Washer
- ④ Collar
- ⑤ Dust Cover
- ⑥ Oil Seal
- ⑦ Bearing
- ⑧ Spacer Collar
- ⑨ Front Wheel
- ⑩ Bearing
- ⑪ Gear Unit (Speedometer)
- ⑫ Washer
- ⑬ Nut
- ⑭ Cable Band
- ⑮ Disc Cover

TIRE AIR PRESSURE (COLD):		
Cold Tire Pressure	Front	Rear
Off-Road Riding	100 kPa (1.0kgf/cm ² , 15 psi)	100 kPa (1.0kgf/cm ² , 15 psi)





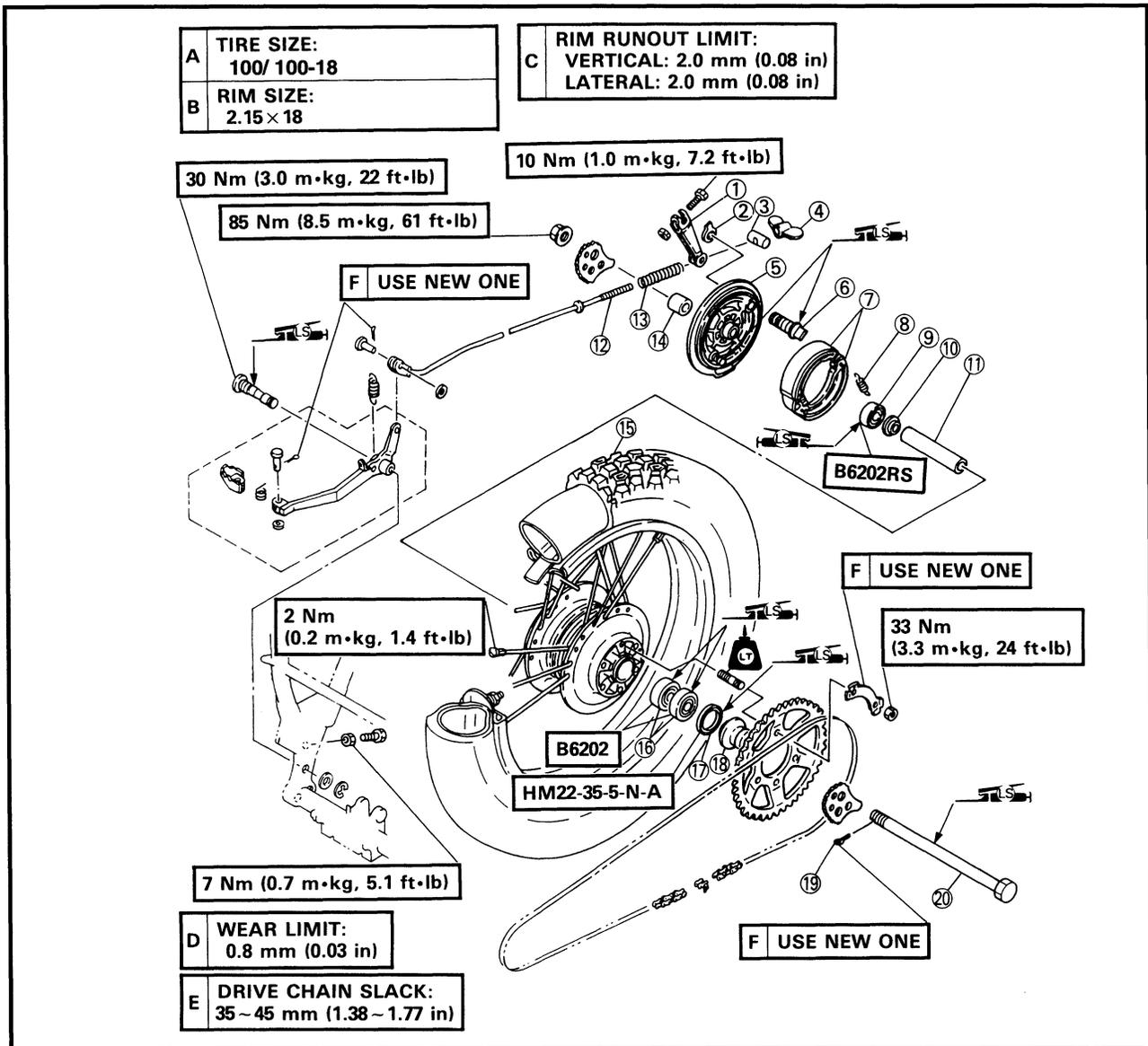
CHASSIS

REAR WHEEL

- ① Camshaft Lever
- ② Wear Indicator Plate
- ③ Pin
- ④ Adjuster
- ⑤ Brake Shoe Plate
- ⑥ Camshaft
- ⑦ Brake Shoe
- ⑧ Brake Shoe Spring
- ⑨ Bearing
- ⑩ Spacer Flange
- ⑪ Spacer
- ⑫ Brake Rod
- ⑬ Compression Spring
- ⑭ Collar
- ⑮ Rear Wheel
- ⑯ Bearing
- ⑰ Oil Seal
- ⑱ Dust Collar
- ⑲ Cotter Pin
- ⑳ Wheel Axle

TIRE AIR PRESSURE (COLD):

Cold Tire Pressure	Front	Rear
Off-Road Riding	100 kPa (1.0kgf/cm ² , 15 psi)	100 kPa (1.0kgf/cm ² , 15 psi)





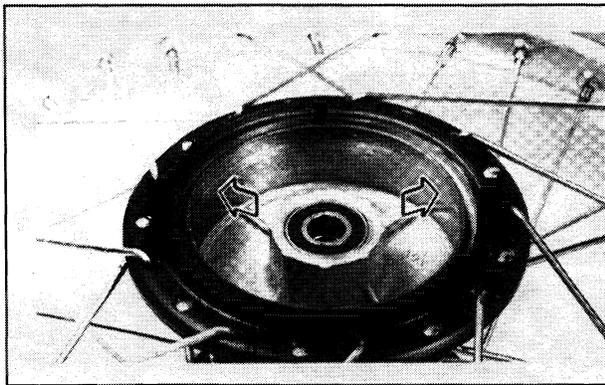
REAR WHEEL

REAR BRAKE

The following shows only the difference(s) from the XT225.



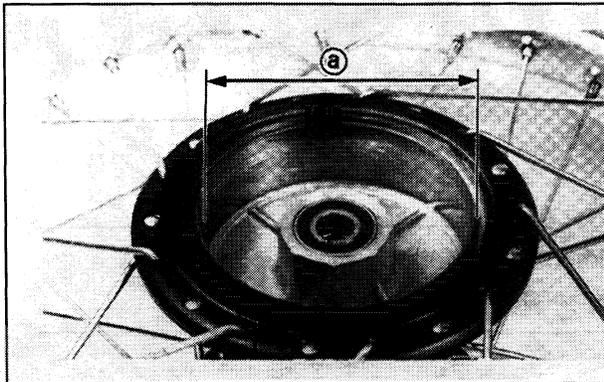
Brake lining thickness:
4mm (0.16 in)
Wear limit:
2mm (0.08 in)



9. Inspect:

- Brake drum inner surface
Oil/Scratches → Replace.

Oil	Use a rag soaked in lacquer thinner or solvent.
Scratches	Use an emery cloth (lightly and evenly polishing)



10. Measure:

- Brake drum inside diameter @
Out of specification → Replace.



Brake drum inside diameter:
STD: 130mm (5.11 in)

ASSEMBLY

Rear Brake

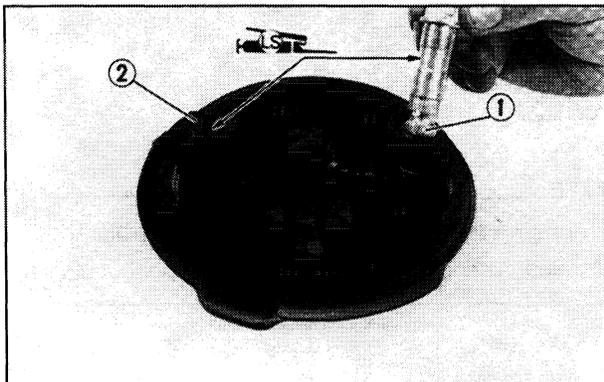
Reverse the "REMOVAL" procedure.
Note the following points.

1. Lubricate:

- Camshaft 1
- Pivot Pin 2

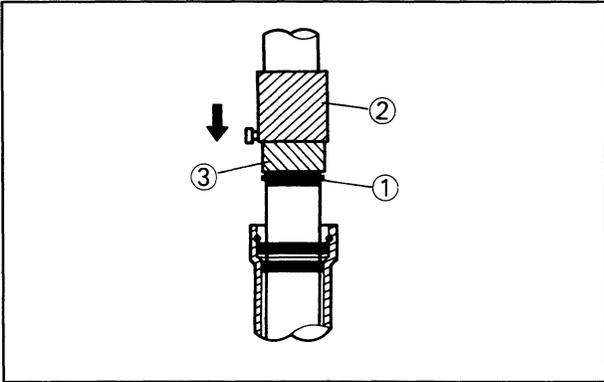


Lithium soap base grease



CAUTION:

Install the camshaft and the pivot pin lightly with grease. Wipe off the excess grease.



ASSEMBLY

The following shows only the difference(s) from the XT225.

10. Install:

- Dust Seal ①
- Use the fork seal driver weight ② and adapter ③.



Fork seal driver weight:

YM-33963
90890-01367

Adapter

36mm (1.42 in):
YM-08010
90890-01370

11. Fill:

- Front fork

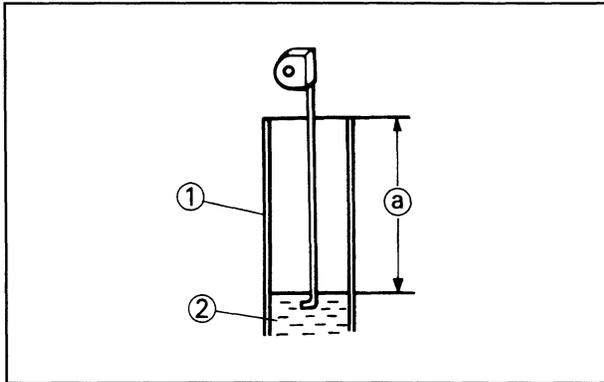


Each fork:

366cm³ (12.8 Imp oz, 12.3 US oz)

Fork oil 10W or equivalent

After filling, slowly pump the fork up and down to distribute oil.



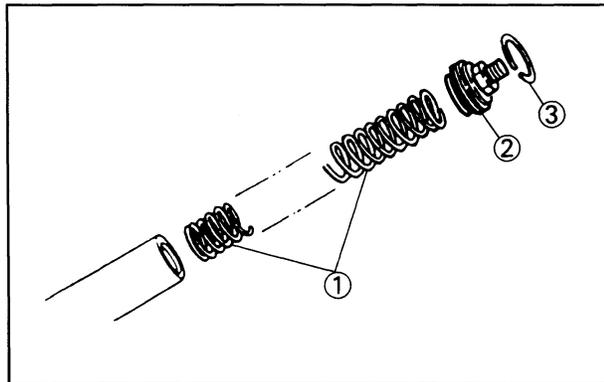
Oil level @:

140mm (5.5 in)

From the top of inner fork tube fully compressed without spring.

① Inner fork tube

② Fork oil



12. Install:

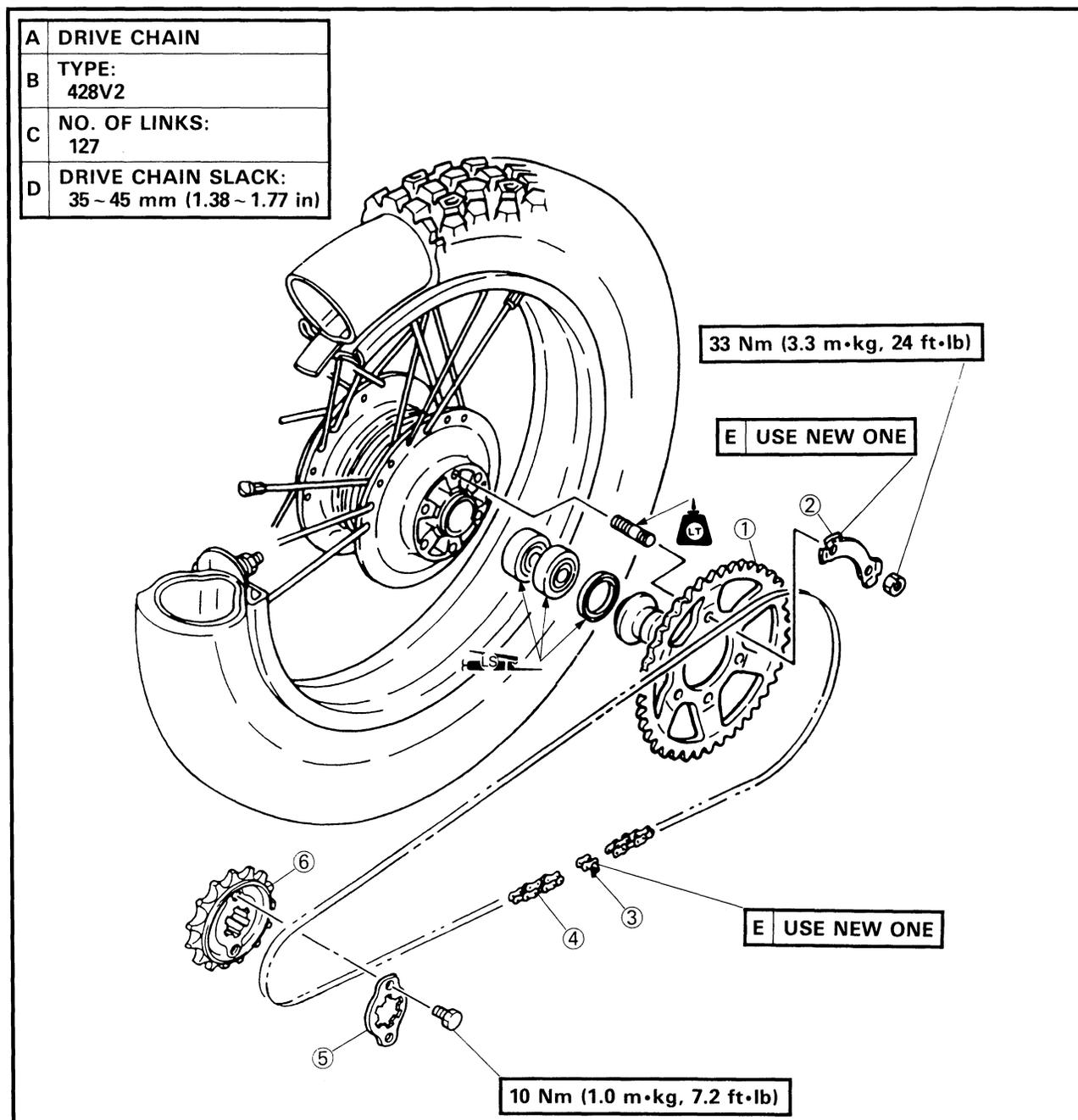
- Fork spring ①
- Spring seat ②
- Stopper ring ③



DRIVE CHAIN AND SPROCKETS

The following shows only the difference(s) from the XT225.

- ① Driven Sprocket
- ② Lock Washer
- ③ Chain Joint
- ④ Drive Chain
- ⑤ Sprocket Holder
- ⑥ Drive Sprocket



ELECTRICAL COMPONENTS

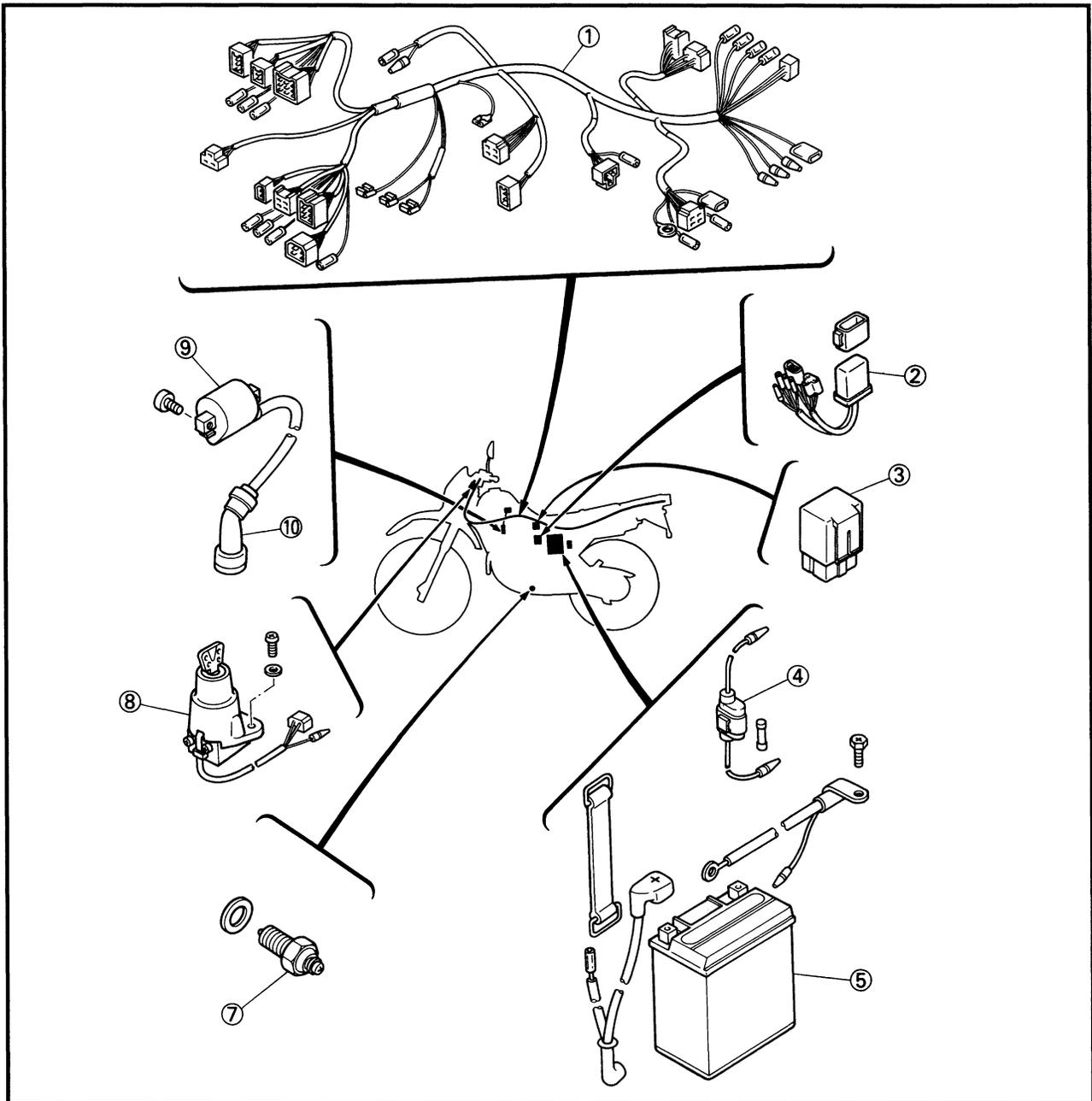
- ① Wire Harness
- ② C.D.I. Unit
- ③ Neutral Relay
- ④ Fuse (Main)
- ⑤ Battery
- ⑦ Neutral Switch
- ⑧ Main Switch
- ⑨ Ignition Coil
- ⑩ Spark Plug Cap

BATTERY:

Capacity: 12V 7AH
Specific Gravity: 1.260

IGNITION COIL:

Primary Coil Resistance:
 0.56~0.84Ω at 20°C (68°F)
Secondary Coil Resistance:
 5.68~8.52kΩ at 20°C (68°F)





The following shows only the difference(s) from the XT225.



12. Charge coil resistance

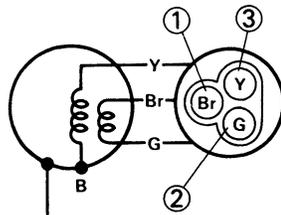
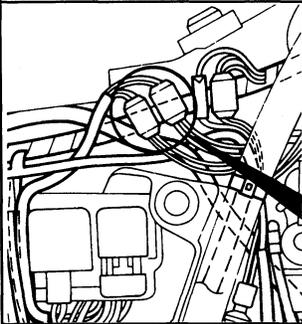
- Disconnect the charge coil coupler from the wire harness.
- Connect the pocket tester (step 1 - Ω x 100), (Step 2 - Ω x 10) to the charge coil terminal.

Step 1:

- Tester (+) lead → Brown/Red lead ①
 Tester (-) lead → Green/White lead ②

Step 2:

- Tester (+) lead → Green/Blue lead ③
 Tester (-) lead → Green/White ground



- Check the charge coil for specified resistance.



Charge coil resistance:

Step 1:

600~900 Ω at 20°C (68°F)
 (Brown/Red - Green/White)

Step 2:

482~708 Ω at 20°C (68°F)
 (Green/Blue - Green/White)

OUT OF SPECIFICATION

Charge coil is faulty, replace charge coil assembly.



MEET SPECIFICATION

The following shows only the difference(s) from the XT225.



13. Pulsar coil resistance

- Disconnect the pulsar coil coupler from the wire harness.
- Connect the pocket tester ($\Omega \times 100$), to the pulsar coil terminal.

Tester (+) lead → White/Blue lead ①
 Tester (-) lead → White/Red lead ②

- Check the pulsar coil for specified resistance.

Pulsar coil resistance:
 280~420 Ω at 20°C (68°F)
 (① — ②)

OUT OF SPECIFICATION

Pulsar coil is faulty, replace it.

MEET SPECIFICATION

14. Wiring connection

Check the entire ignition system for connections.
 Refer to the "WIRING DIAGRAM" sec-

POOR CONNECTION

Correct.

CORRECT

Replace the C.D.I. unit.

YAMAHA

**XT225H
XT225HC**

**SUPPLEMENTARY
SERVICE MANUAL**

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the XT225H/XT225HC. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual:

XT225D/XT225DC SERVICE MANUAL: 4BE-28197-20

**XT225H/XT225HC
SUPPLEMENTARY
SERVICE MANUAL**

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1st Edition, May 1995

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