

YAMAHA

FZR600R '94

4JH-SE1

**SERVICE
INFORMATION**

FOREWORD

This Service Information has been prepared to introduce new service and data for the FZR600R '94. For complete service information procedures it is necessary to use this publication together with the following microfiche service manual.

FZR600R '94 SERVICE MANUAL: 4JH-ME1

**FZR600R '94
SERVICE INFORMATION
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NOTICE

This manual was written by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on Yamaha motorcycles have a basic understanding of the mechanical concepts and procedures inherent in motorcycle repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

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.

HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.



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



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.



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.

MANUAL FORMAT
























All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, and assembly, inspection operations.

In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearings
Pitting/Damage → Replace.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams before each disassembly section for ease in identifying correct disassembly and assembly procedures.

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 	㉔ New	

ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb tabs to indicate the chapter's number and content.

- 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 ㉔ in the 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®)
- ㉔ Use new one

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GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER (For E)

The vehicle identification number ① is stamped into the right side of the steering head.

Starting serial number:
JYA4JHS0*RA016101 (for E)

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.



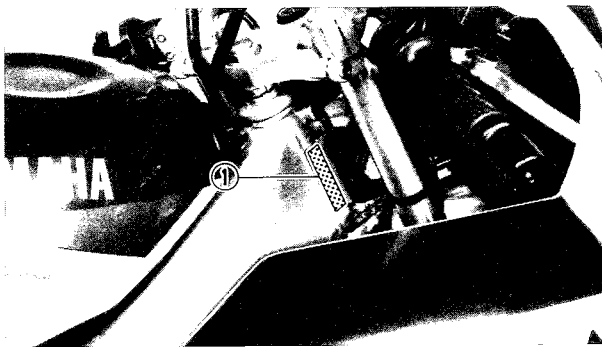
FRAME SERIAL NUMBER (Except for E)

The frame serial number ① is stamped into the right side of the steering head.

Starting serial number:
4JH-000101 (for D, B, DK, SF, GB, N,
NL, F, GR, I and PRT)
4JH-021101 (for D)
4MH-000101 (for D)

NOTE:

The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.



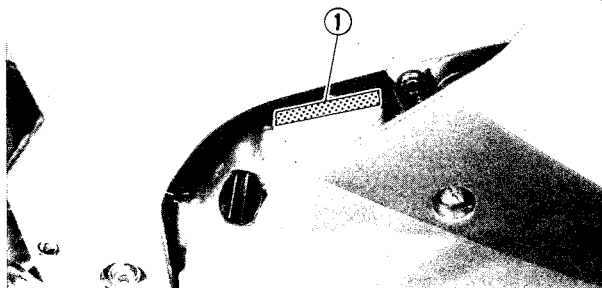
ENGINE SERIAL NUMBER

The engine serial number ① is stamped into crankcase.

Starting serial number:
4JH-016101 (for E)
4JH-000101 (for D, B, DK, SF, GB, N,
NL, F, GR, I and PRT)
4JH-021101 (for D)
4MH-000101 (for D)

NOTE:

- The first three digits of these numbers are for model identification; the remaining digits are the unit production number.
- Designs and specifications are subject to change without notice.





SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	FZR600R
Model code:	4JH1
Engine starting number:	4JH-000101
Frame starting number:	4JH-000101
Dimensions:	
Overall length	2,145 mm (84.4 in)
Overall width	725 mm (28.5 in)
Overall height	1,180 mm (46.5 in)
Seat height	795 mm (31.3 in)
Wheelbase	1,415 mm (55.7 in)
Minimum ground clearance	135 mm (5.31 in)
Minimum turning radius	3,200 mm (126.0 in)
Basic weight:	
With oil and full fuel tank	206 kg (454 lb)
Engine:	
Engine type	Liquid-cooled 4-stroke, DOHC
Cylinder arrangement	Forward-inclined parallel 4-cylinder
Displacement	599 cm ³
Bore × stroke	62.0 × 49.6 mm (2.44 × 1.95 in)
Compression ratio	12:1
Compression pressure (STD)	1,550 kPa (15.5 kg/cm ² , 220 psi) at 400 r/min
Starting system	Electric starter
Lubrication system:	Wet sump
Oil type or grade:	
Engine oil	
	SAE20W40 type SE motor oil SAE10W30 type SE motor oil
Oil capacity:	
Engine oil	
Periodic oil change	2.6 L (2.3 Imp qt, 2.7 US qt)
With oil filter replacement	2.9 L (2.6 Imp qt, 3.1 US qt)
Total amount	3.5 L (3.1 Imp qt, 3.7 US qt)
Oil cooler capacity (including all routes)	0.3 L (0.3 Imp qt, 0.3 US qt)
Radiator capacity (including all routes):	1.8 L (1.58 Imp qt, 1.90 US qt)
Air filter:	Dry type element
Fuel:	
Type	Regular unleaded gasoline
Fuel tank capacity	19 L (4.18 Imp gal, 5.02 US gal)
Fuel reserve amount	3.5 L (0.77 Imp gal, 0.92 US gal)

GENERAL SPECIFICATIONS

SPEC



Model	FZR600R
Carburetor: Type / quantity Manufacturer	CVKD34/4 KEIHIN
Spark plug: Type Manufacturer Spark plug gap	CR9E/U27ESR-N NGK/NIPPONDENSO 0.7 ~ 0.8 mm (0.028 ~ 0.031 in)
Clutch type:	Wet, multiple-disc
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission type Operation Gear ratio	Spur gear 82/48(1.708) Chain drive 47/15(3.133) Constant mesh 6-speed Left foot operation 1st 37/13(2.846) 2nd 37/19(1.947) 3rd 34/22(1.545) 4th 28/21(1.333) 5th 25/21(1.190) 6th 29/27(1.074)
Chassis: Frame type Caster angle Trail	Diamond 25° 97 mm (3.82 in)
Tire: Type Size Manufacturer Type	Tubeless front 120/60ZR17 rear 160/60ZR17 front BRIDGESTONE/DUNLOP/MICHELIN/METZELER rear BRIDGESTONE/DUNLOP/MICHELIN/METZELER front BT50F/D202F/A89X/MEZ1 FRONT rear BT50R/D202/M89X/MEZ1
Tire pressure (cold tire): Maximum load-except motorcycle Loading condition A * Loading condition B * High-speed riding	174 kg (384 lb) 0 ~ 90 kg (0 ~ 198 lb) front 225 kPa (2.25 kg/cm ² , 32 psi) rear 250 kPa (2.5 kg/cm ² , 36 psi) 90 ~ 174 kg (198 ~ 384 lb) front 250 kPa (2.5 kg/cm ² , 36 psi) rear 290 kPa (2.9 kg/cm ² , 41 psi) front 250 kPa (2.5 kg/cm ² , 36 psi) rear 290 kPa (2.9 kg/cm ² , 41 psi)

GENERAL SPECIFICATIONS

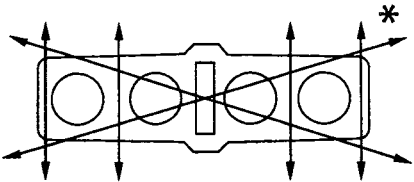
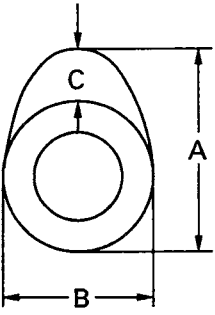
SPEC



Model	FZR600R
Brake: Front brake type operation Rear brake type operation	Dual disc brake Right hand operation Single disc brake Right foot operation
Suspension: Front suspension Rear suspension	Telescopic fork Swingarm (link suspension)
Shock absorber: Front shock absorber Rear shock absorber	Coil spring / Oil damper Coil-gas spring / Oil damper
Wheel travel: Front wheel travel Rear wheel travel	130 mm (5.1 in) 120 mm (4.7 in)
Electrical: Ignition system Generator system Battery type Battery capacity	T.C.I. (Digital) A.C. magneto generator YTX-12BS 12 V 10 AH
Headlight type:	Quartz bulb (Halogen)
Bulb wattage × quantity: Headlight Auxiliary light Tail / brake light Flasher light Meter light Indicator light NEUTRAL TURN OIL LEVEL HIGH BEAM FUEL	12 V 60 W / 55 W × 2 12 V 5 W × 1 12 V 5 W / 21 W × 2 12 V 21 W × 4 12 V 1.7 W × 4 12 V 3.4 W × 1 12 V 3.4 W × 1 12 V 3.4 W × 1 12 V 3.4 W × 1 12 V 3.4 W × 1

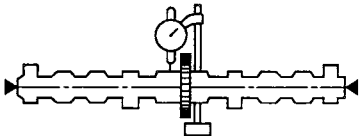
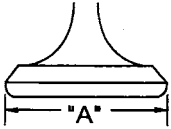
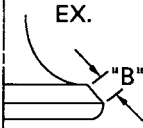
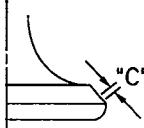
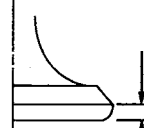


**MAINTENANCE SPECIFICATIONS
ENGINE**

Model	FZR600R
<p>Cylinder head: Warp limit</p> 	<p>0.05 mm (0.0020 in)</p>
<p>Cylinder: Bore size Taper limit Out of round limit</p>	<p>62.00 ~ 62.01 mm (2.4409 ~ 2.4413 in) 0.09 mm (0.004 in) 0.07 mm (0.0028 in)</p>
<p>Camshaft: Drive method Cam cap inside diameter Camshaft outside diameter Shaft-to-cap clearance <Limit> Cam dimensions</p>  <p>Intake</p> <p>Exhaust</p>	<p>Chain drive (Center) 23.000 ~ 23.021 mm (0.9055 ~ 0.9063 in) 22.967 ~ 22.980 mm (0.9042 ~ 0.9047 in) 0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in) <0.08 mm (0.0031 in)></p> <p>"A" 32.75 ~ 32.85 mm (1.289 ~ 1.293 in) <32.7mm (1.287 in)> "B" 24.998 ~ 25.098 mm (0.984 ~ 0.988 in) <24.95 mm (0.982 in)> "C" 7.652 ~ 7.852 mm (0.301 ~ 0.309 in) <7.5 mm (0.295 in)></p> <p>"A" 32.55 ~ 32.65 mm (1.281 ~ 1.285 in) <32.5 mm (1.280 in)> "B" 24.998 ~ 25.098 mm (0.984 ~ 0.988 in) <24.95 mm (0.982 in)> "C" 7.452 ~ 7.652 mm (0.293 ~ 0.301 in)</p>

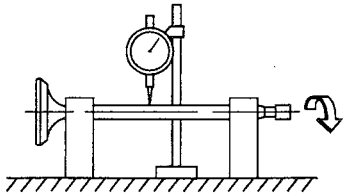
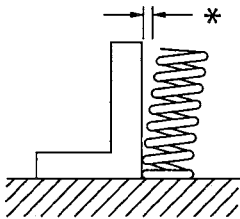

MAINTENANCE SPECIFICATIONS



Model	FZR600R		
<p>Camshaft runout limit</p> <p style="text-align: right;"><limit></p> 	<p><7.3 mm (0.287 in)> 0.06 mm (0.0024 in)</p>		
<p>Cam chain:</p> <p>Cam chain type / No. of links</p> <p>Cam chain adjustment method</p>	<p>DID215F/118</p> <p>Automatic</p>		
<p>Valve, valve seat, valve guide:</p> <p>Valve clearance (cold)</p> <p style="margin-left: 200px;">IN</p> <p style="margin-left: 200px;">EX</p> <p>Valve dimensions:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  <p>Head Dia</p> </div> <div style="text-align: center;">  <p>Face Width</p> </div> <div style="text-align: center;">  <p>Seat Width</p> </div> <div style="text-align: center;">  <p>Margin Thickness</p> </div> </div>	<p>0.11 ~ 0.20 mm (0.004 ~ 0.008 in)</p> <p>0.21 ~ 0.30 mm (0.008 ~ 0.012 in)</p>		
<p>"A" head diameter</p> <p>"B" face width</p> <p>"C" seat width</p> <p><Limit></p> <p>"D" margin thickness</p> <p><Limit></p> <p>Stem outside diameter</p> <p><Limit></p> <p>Guide inside diameter</p> <p><Limit></p> <p>Stem-to-guide clearance</p> <p><Limit></p>	<p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p> <p>IN</p> <p>EX</p>	<p>23.9 ~ 24.1 mm (0.941 ~ 0.949 in)</p> <p>20.9 ~ 21.1 mm (0.823 ~ 0.831 in)</p> <p>1.56 ~ 2.40 mm (0.061 ~ 0.094 in)</p> <p>1.56 ~ 2.40 mm (0.061 ~ 0.094 in)</p> <p>0.9 ~ 1.1 mm (0.035 ~ 0.043 in)</p> <p>0.9 ~ 1.1 mm (0.035 ~ 0.043 in)</p> <p><1.6 mm (0.06 in)></p> <p><1.6 mm (0.06 in)></p> <p>0.6 ~ 0.8 mm (0.024 ~ 0.031 in)</p> <p>0.6 ~ 0.8 mm (0.024 ~ 0.031 in)</p> <p><0.5 mm (0.020 in)></p> <p><0.5 mm (0.020 in)></p> <p>3.975 ~ 3.990 mm (0.1565 ~ 0.1571 in)</p> <p>3.960 ~ 3.975 mm (0.1559 ~ 0.1565 in)</p> <p><3.95 mm (0.156 in)></p> <p><3.935 mm (0.155 in)></p> <p>4.000 ~ 4.012 mm (0.1575 ~ 0.1580 in)</p> <p>4.000 ~ 4.012 mm (0.1575 ~ 0.1580 in)</p> <p><4.042 mm (0.159 in)></p> <p><4.042 mm (0.159 in)></p> <p>0.010 ~ 0.037 mm (0.0004 ~ 0.0015 in)</p> <p>0.025 ~ 0.052 mm (0.0010 ~ 0.0020 in)</p> <p><0.08 mm (0.003 in)></p> <p><0.1 mm (0.004 in)></p>	

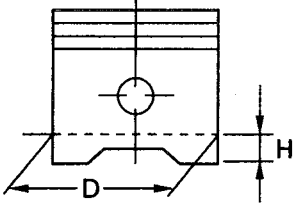
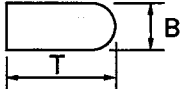
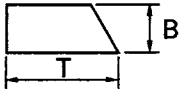
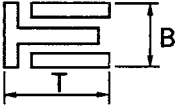
MAINTENANCE SPECIFICATIONS



Model	FZR600R	
<p>Stem runout limit</p>  <p>Valve seat width</p> <p><Limit></p>	<p>0.04 mm (0.0016 in)</p> <p>IN 0.9 ~ 1.1 mm (0.0354 ~ 0.0433in)</p> <p>EX 0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)</p> <p>IN <1.6 mm (0.06 in)></p> <p>EX <1.6 mm (0.06 in)></p>	
<p>Valve spring:</p> <p>Inner spring</p> <p>Free length</p> <p><Limit></p> <p>Set length (valve closed)</p> <p>Compressed pressure (installed)</p> <p>Tilt limit</p>  <p>Direction of winding (top view)</p>	<p>IN 39.17 mm (1.54 in)</p> <p>EX 39.17 mm (1.54 in)</p> <p>IN <37.5 mm (1.48 in)></p> <p>EX <37.5 mm (1.48 in)></p> <p>IN 34.5 mm (1.4 in)</p> <p>EX 34.5 mm (1.4 in)</p> <p>IN 11.0 ~ 13.2 kg (24.25 ~ 29.10 lb)</p> <p>EX 11.0 ~ 13.2 kg (24.25 ~ 29.10 lb)</p> <p>IN 2.5°/1.7 mm (2.5°/0.067 in)</p> <p>EX 2.5°/1.7 mm (2.5°/0.067 in)</p> <p>IN Clockwise</p> <p>EX Clockwise</p> 	
<p>Piston:</p> <p>Piston to cylinder clearance</p> <p><Limit></p>	<p>0.025 ~ 0.050 mm (0.0010 ~ 0.0020 in)</p> <p><Limit> <0.07 mm (0.0028 in)></p>	

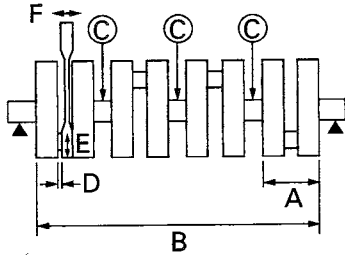
MAINTENANCE SPECIFICATIONS



Model	FZR600R
<p>Piston size "D"</p>  <p>Measuring point "H"</p> <p>Piston off-set</p> <p>Piston off-set direction</p> <p>Piston pin bore inside diameter</p> <p>Piston pin outside diameter</p>	<p>61.960 ~ 61.975 mm (2.439 ~ 2.440 in)</p> <p>5 mm (0.197 in)</p> <p>0.5 mm (0.02 in)</p> <p>IN side</p> <p>17.002 ~ 17.013 mm (0.6694 ~ 0.6698 in)</p> <p>16.991 ~ 17.000 mm (0.6689 ~ 0.6693 in)</p>
<p>Piston rings:</p> <p>Top ring:</p>  <p>Type</p> <p>Dimensions (B × T)</p> <p>End gap (installed)</p> <p><Limit></p> <p>Side clearance (installed)</p> <p><Limit></p> <p>2nd ring:</p>  <p>Type</p> <p>Dimensions (B × T)</p> <p>End gap (installed)</p> <p><Limit></p> <p>Side clearance</p> <p><Limit></p> <p>Oil ring:</p>  <p>Dimensions (B × T)</p> <p>End gap (installed)</p>	<p>Barrel</p> <p>0.8 × 2.2 mm (0.031 × 0.087 in)</p> <p>0.15 ~ 0.30 mm (0.006 ~ 0.012 in)</p> <p><0.6 mm (0.024 in)></p> <p>0.020 ~ 0.075 mm (0.001 ~ 0.003 in)</p> <p><0.1 mm (0.004 in)></p> <p>Taper</p> <p>0.8 × 2.3 mm (0.031 × 0.091 in)</p> <p>0.25 ~ 0.40 mm (0.010 ~ 0.016 in)</p> <p><0.7 mm (0.028 in)></p> <p>0.020 ~ 0.055 mm (0.001 ~ 0.002 in)</p> <p><0.1 mm (0.004 in)></p> <p>1.5 × 2.3 mm (0.059 × 0.091 in)</p> <p>0.10 ~ 0.35 mm (0.004 ~ 0.014 in)</p>
<p>Connecting rod:</p> <p>Oil clearance</p> <p><Limit></p> <p>Color code (corresponding size)</p>	<p>0.043 ~ 0.066 mm (0.002 ~ 0.003 in)</p> <p><0.08 mm (0.003 in)></p> <p>① Blue ② Black ③ Brown ④ Green</p>

MAINTENANCE SPECIFICATIONS



Model	FZR600R
<p>Crankshaft:</p>  <p>Crank width "A" Assembly width "B" Runout limit "C" Big end side clearance "D" <Limit> Big end radial clearance "E" <Limit> Small end free play "F" <Limit> Journal oil clearance <Limit> Color code (corresponding size)</p>	<p>48.4 mm (1.906 in) 296.8 ~ 298.0 mm (11.685 ~ 11.732 in) 0.03 mm (0.0012 in) 0.160 ~ 0.262 mm (0.006 ~ 0.010 in) <0.5 mm (0.020 in)> 0.043 ~ 0.066 mm (0.0017 ~ 0.0026 in) <0.08 mm (0.003 in)> 0.32 ~ 0.50 mm (0.0126 ~ 0.0197 in) <0.8 mm (0.0315 in)> 0.005 ~ 0.035 mm (0.0002 ~ 0.0014 in) <0.08 mm (0.0031 in)> ① Blue ② Black ③ Brown ④ Green ⑤ Yellow ⑥ Pink</p>
<p>Clutch:</p> <p>Friction plate thickness Quantity Friction plate wear limit Clutch plate thickness Quantity Warp limit Clutch spring free length Quantity Minimum length Clutch housing thrust clearance <Limit> Clutch housing radial clearance Clutch release method Push rod bending limit</p>	<p>2.92 ~ 3.08 mm (0.115 ~ 0.121 in) 9 2.8 mm (0.11 in) 1.90 ~ 2.10 mm (0.075 ~ 0.083 in) 8 0.1 mm (0.004 in) 40.4 mm (1.59 in) 6 39.3 mm (1.55 in) 0.05 ~ 0.13 mm (0.002 ~ 0.005 in) <0.2 mm (0.008 in)> 0.005 ~ 0.041 mm (0.0002 ~ 0.0016 in) Inner push, screw push 0.3 mm (0.012 in)</p>
<p>Transmission:</p> <p>Main axle deflection limit Drive axle deflection limit</p>	<p>0.02 mm (0.001 in) 0.02 mm (0.001 in)</p>
<p>Shifter:</p> <p>Shifter type Guide bar bending limit</p>	<p>Cam drum 0.05 mm (0.002 in)</p>
<p>Carburetor:</p> <p>I. D. mark Main jet (M.J)</p>	<p>4JH 00 #118</p>

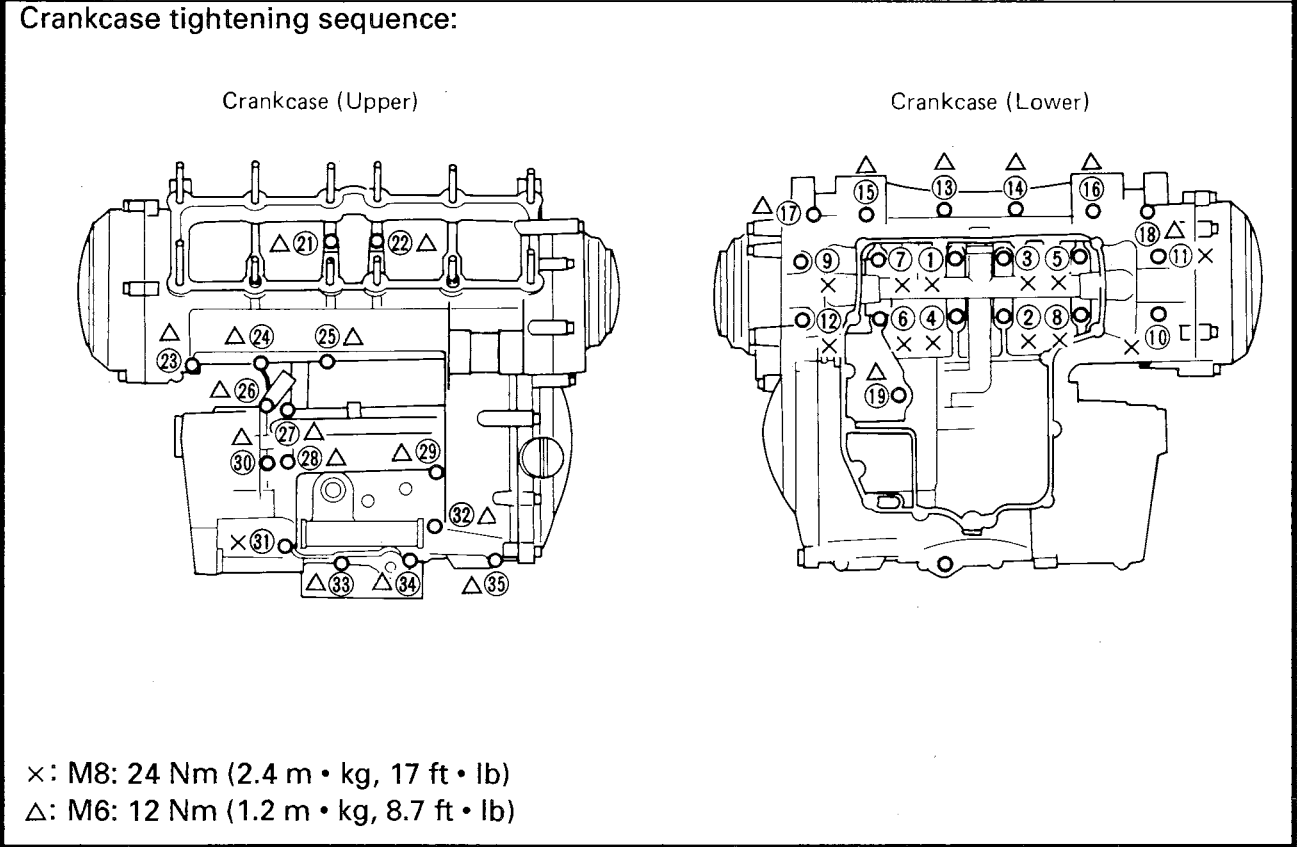
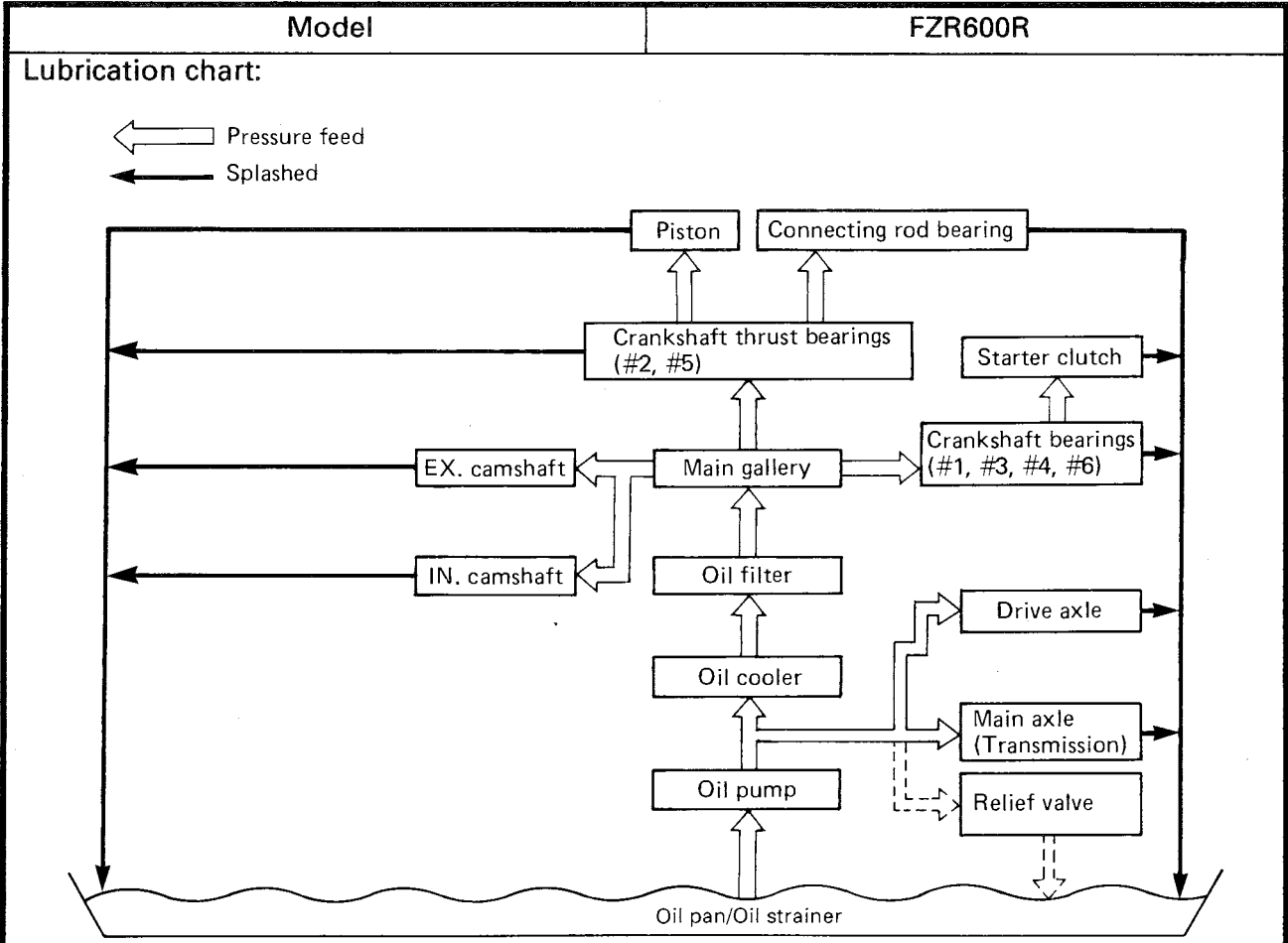
MAINTENANCE SPECIFICATIONS



Model		FZR600R
Main air jet	(M.A.J)	#80
Jet needle	(J.N)	N1YA
Needle jet	(N.J)	2.6
Pilot air jet	(P.A.J.1)	#100
Pilot outlet	(P.O)	0.9
Pilot jet	(P.J)	#35
Bypass 1	(B.P.1)	0.8
Bypass 2	(B.P.2)	0.8
Bypass 3	(B.P.3)	0.8
Bypass 4	(B.P.4)	0.8
Pilot screw	(P.S)	1-3/4 turns out
Valve seat size	(V.S)	1.2
Starter jet	(G.S.1)	#45
Starter jet	(G.S.2)	0.6
Throttle valve size	(Th.V)	#110
Fuel level	(F.L)	11.5 ~ 12.5 mm (0.45 ~ 0.49 in)
Engine idle speed		1,250 ~ 1,350 r/min
Intake vacuum		29.6 kPa (225 mmHg, 8.858 inHg)
Fuel pump:		
Type		Electrical type
Model / manufacturer		4FM/NIPPONDENSO
Consumption amperage	<max>	1 A
Output pressure		20 kPa (0.2 kg/cm ² , 3 psi)
Lubrication system:		
Oil filter type		Paper type
Oil pump type		Trochoid type
Tip clearance "A" or "B"		0.03 ~ 0.09 mm (0.001 ~ 0.004 in)
<Limit>		<0.15 mm (0.006 in)>
Side clearance		0.03 ~ 0.08 mm (0.001 ~ 0.003 in)
<Limit>		<0.15 mm (0.006 in)>
Bypass valve setting pressure		80 ~ 120 kPa (0.8 ~ 1.2 kg/cm ² , 11.38 ~ 17.07 psi)
Relief valve operating pressure		450 ~ 550 kPa (4.5 ~ 5.5 kg/cm ² , 64.00 ~ 78.23 psi)
Oil pressure (hot)		80 kPa (0.8 kg/cm ² , 11.38 psi) at 1,300 r/min
Pressure check location		MAIN GALLERY
Cooling system:		
Radiator core size		
Width		320 mm (12.6 in)
Height		218 mm (8.58 in)
Thickness		24 mm (0.94 in)
Radiator cap opening pressure		110 ~ 140 kPa (1.1 ~ 1.4 kg/cm ² , 15.65 ~ 19.91 psi)
Reservoir tank capacity		0.55 L (0.48 Imp qt, 0.58 US qt)
<From low to full level>		<0.25 L (0.22 Imp qt, 0.26 US qt)>
Water pump		
Type		Single suction centrifugal pump
Reduction ratio		82/48X48/49(1.673)

MAINTENANCE SPECIFICATIONS

SPEC



MAINTENANCE SPECIFICATIONS



Tightening torques

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Camshaft cap	Bolt	M6	24	10	1.0	7.2	
Cylinder head (exhaust pipe)	Stud bolt	M6	8	10	1.0	7.2	
Cylinder head	Nut	M8	12	35	3.5	25	
Spark plug	-	M10	4	12.5	1.25	9.0	
Cylinder head cover	Bolt	M6	8	10	1.0	7.2	
Connecting rod	Nut	M7	8	See NOTE			
Timing chain sprocket	Bolt	M7	4	24	2.4	17	
Timing chain tensioner	Bolt	M6	2	10	1.0	7.2	
Timing chain tensioner end	Cap bolt	M11	1	20	2.0	14	
Chain guide (intake side)	Bolt	M6	2	10	1.0	7.2	
Oil filter	-	M20	-	17	1.7	12	
Oil cooler	-	M20	-	63	6.3	45	
Oil pan	Bolt	M6	14	10	1.0	7.2	
Drain bolt	-	M14	1	43	4.3	31	
Oil delivery pipe	Bolt	M6	1	10	1.0	7.2	
	Union bolt	M10	2	20	2.0	14	
Oil pump cover	Screw	M6	1	7	0.7	5.1	
Oil pump assembly	Bolt	M6	3	10	1.0	7.2	
Oil strainer housing	Bolt	M6	2	10	1.0	7.2	
Water pipe 1	Bolt	M6	2	10	1.0	7.2	
Water pipe 2	Bolt	M6	2	10	1.0	7.2	
Thermostatic valve cover	Bolt	M6	2	10	1.0	7.2	
Conduction	Bolt	M6	2	7	0.7	5.1	
Radiator	Bolt	M6	3	7	0.7	5.1	
Joint	Bolt	M6	4	10	1.0	7.2	
Water pump	Bolt	M6	2	10	1.0	7.2	
Water pump cover	Bolt	M6	2	10	1.0	7.2	
Carburetor joint	Bolt	M6	8	10	1.0	7.2	
Air filter case cover	Screw	M5	2	5	0.5	3.6	
Exhaust pipe	Nut	M6	8	10	1.0	7.2	
Muffler and stay	Flange bolt	M8	1	20	2.0	14	
Exhaust pipe blind plug (CO test)	Bolt	M6	4	10	1.0	7.2	
Exhaust pipe and stay	Bolt	M8	1	20	2.0	14	
Exhaust pipe and muffler	Bolt	M8	1	20	2.0	14	
Crankcase	Stud bolt	M8	12	12.5	1.25	9.0	
Crankcase	Bolt	M8	12	24	2.4	17	
Crankcase	Bolt	M6	21	12	1.2	8.7	
Crankcase	Bolt	M8	1	24	2.4	17	
Oil baffle plate	Screw	M6	2	7	0.7	5.1	
Oil baffle plate	Screw	M6	4	7	0.7	5.1	

MAINTENANCE SPECIFICATIONS



Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Bearing retainer	Bolt	M6	2	10	1.0	7.2	
AC magneto cover	Bolt	M6	5	10	1.0	7.2	
Crankcase cover (left)	Bolt	M6	5	10	1.0	7.2	
	Screw	M5	4	4	0.4	2.9	
Starter clutch cover	Bolt	M6	7	10	1.0	7.2	
Crankcase plug	-	M16	2	8	0.8	5.8	
Crankcase cover (right)	Bolt	M6	10	10	1.0	7.2	
	Screw	M5	4	4	0.4	2.9	
Lead holder	Screw	M6	1	7	0.7	5.1	
Starter clutch	Bolt	M10	1	80	8.0	58	
Starter wheel	Bolt	M8	3	30	3.0	22	
Clutch spring	Screw	M6	6	8	0.8	5.8	
Clutch boss	Nut	M18	1	70	7.0	50	Use lock washer
Push lever	Screw	M5	2	4.5	0.45	3.3	
Push rod adjuster	Nut	M8	1	16	1.6	12	
Drive sprocket	Nut	M18	1	70	7.0	50	Use lock washer
Stopper plate	Bolt	M6	1	10	1.0	7.2	
Spring stopper	Screw	M8	1	22	2.2	16	
Shift arm	Bolt	M6	1	10	1.0	7.2	
Shift cam stopper lever	Bolt	M6	1	10	1.0	7.2	
Shift pedal adjuster	Nut	M8	2	10	1.0	7.2	
Guide bar stopper	Bolt	M6	1	10	1.0	7.2	
Side plate	Screw	M5	1	4	0.4	2.9	
AC magneto rotor	Bolt	M10	1	85	8.5	62	
Stator coil	Bolt	M6	3	10	1.0	7.2	
Pickup coil	Screw	M5	2	5	0.5	3.6	
Starter motor	Bolt	M6	2	10	1.0	7.2	
Neutral switch	Screw	M6	2	4	0.4	2.9	
Oil level switch	Bolt	M6	2	7	0.7	5.1	
Thermo switch	-	M16	1	23	2.3	17	
Thermo switch	-	-	1	15	1.5	11	

NOTE:

After tightening to 15 Nm (1.5 m · kg, 11 ft · lb), tighten another 90°.

MAINTENANCE SPECIFICATIONS





CHASSIS

Model	FZR600R
Steering system:	
Steering bearing type	Taper roller bearing
Front suspension:	
Front fork travel	130 mm (5.12 in)
Fork spring free length	377 mm (14.8 in)
<Limit>	<372 mm (14.6 in)>
Collar length	150 mm (5.9 in)
Spring rate (K1)	8.0 N/mm (0.8 kg/mm, 44.8 lb/in)
Stroke (K1)	0 ~ 130 mm (0.00 ~ 5.12 in)
Optional spring	No
Oil capacity	503 cm ³ (17.7 Imp oz, 17.0 US oz)
Oil level	133 mm (5.24 in)
Oil grade	Fork oil 10 WT or equivalent
Rear suspension:	
Shock absorber travel	64 mm (2.52 in)
Spring free length	238 mm (9.37 in)
Fitting length	220 mm (8.66 in)
Spring rate (K1)	85.0 N/mm (8.5 kg/mm, 476.0 lb/in)
Stroke (K1)	0 ~ 64 mm (0.00 ~ 2.52 in)
Optional spring	No
Enclosed gas / air pressure (STD)	1,200 kPa (12 kg/cm ² , 171 psi)
Swingarm:	
Free play limit	end side 1 mm (0.04 in)
	side 1 mm (0.04 in)
Front wheel:	
Type	Cast wheel
Rim size	17 X MT3.50
Rim material	Aluminum
Rim runout limit	radial 1 mm (0.04 in)
	lateral 0.5 mm (0.02 in)
Rear wheel:	
Type	Cast wheel
Rim size	17 X MT5.00
Rim material	Aluminum
Rim runout limit	radial 1 mm (0.04 in)
	lateral 0.5 mm (0.02 in)
Drive chain:	
Type / manufacturer	50VA7/DAIDO
No. of links	108
Chain free play	20 ~ 30 mm (0.8 ~ 1.2 in)
Front disc brake:	
Type	Dual

MAINTENANCE SPECIFICATIONS



Model	FZR600R
<p>Disc outside diameter × thickness Pad thickness inner <Limit> Pad thickness outer <Limit></p>  <p>Master cylinder inside diameter Caliper cylinder inside diameter Caliper cylinder inside diameter Brake fluid type</p>	<p>298 × 4 mm (11.7 × 0.16 in) 5 mm (0.20 in) <0.5 mm (0.02 in)> 5 mm (0.20 in) <0.5 mm (0.02 in)></p> <p>15.87 mm (0.62 in) 33.96 mm (1.34 in) 30.23 mm (1.19 in) DOT #4</p>
<p>Rear disc brake: Type Disc outside diameter × thickness Pad thickness inner <Limit> Pad thickness outer <Limit></p>  <p>Master cylinder inside diameter Caliper cylinder inside diameter Brake fluid type</p>	<p>Single 245 × 5 mm (9.6 × 0.20 in) 5.5 mm (0.22 in) <0.5 mm (0.02 in)> 5.5 mm (0.22 in) <0.5 mm (0.02 in)></p> <p>14 mm (0.55 in) 42.85 mm (1.69 in) DOT #4</p>
<p>Brake lever & brake pedal: Brake pedal position Clutch lever free play (at pivot)</p>	<p>42 mm (1.7 in) 2 ~ 3 mm (0.08 ~ 0.12 in)</p>

MAINTENANCE SPECIFICATIONS



Tightening torques

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m·kg	ft·lb	
Upper bracket and inner tube	M8	30	3.0	22	See NOTE
Upper bracket and steering shaft	M22	110	11.0	80	
Handle boss and inner tube	M6	13	1.3	9.4	
Handle boss and upper bracket	M6	13	1.3	9.4	
Ring nut (steering shaft)	M25	3	0.3	2.2	
Inner tube and lower bracket	M10	38	3.8	27	
Union bolt (brake hose)	M10	26	2.6	19	
Master cylinder (front brake)	M6	10	1.0	7.2	
Handle boss and handlebar	M8	28	2.8	20	
Engine mounting:					
Mounting bolt (front)	M10	40	4.0	29	
Mounting bolt (rear upper)	M10	48	4.8	35	
Mounting bolt (rear lower)	M10	48	4.8	35	
Pinch bolt (front left)	M10	64	6.4	46	
Exhaust pipe bracket	M10	40	4.0	29	
Frame and side cover stay	M8	30	3.0	22	
Swingarm pivot shaft	M16	90	9.0	65	
Relay arm and frame	M10	48	4.8	35	
Relay arm and connecting rod	M10	48	4.8	35	
Connecting rod and swingarm	M10	48	4.8	35	
Rear shock absorber and relay arm	M10	40	4.0	29	
Rear shock absorber and bracket	M10	40	4.0	29	
Fuel pump and fuel tank	M5	3	0.3	2.2	
Fuel pump and fuel cock	M6	7	0.7	5.1	
Footrest bracket and frame	M8	30	3.0	22	
Rear footrest and frame	M8	30	3.0	22	
Rear master cylinder and footrest bracket	M8	23	2.3	17	
Rear brake reservoir tank	M6	5	0.5	3.6	
Union bolt (rear brake hose)	M10	26	2.6	19	
Sidestand bolt and nut	M10	39	3.9	28	
Sidestand bolt and frame	M10	46	4.6	33	
Front wheel axle	M14	59	5.9	43	
Rear wheel axle	M18	117	11.7	85	
Front brake caliper	M10	35	3.5	25	
Rear brake caliper	M10	35	3.5	25	
Brake disc and wheel	M8	20	2.0	14	
Driven sprocket and clutch hub	M10	60	6.0	43	
Tension bar	M8	30	3.0	22	
Caliper breed screw	M8	6	0.6	4.3	
Pinch bolt (front axle)	M8	40	4.0	29	

MAINTENANCE SPECIFICATIONS



NOTE:

1. First, tighten the ring nut approximately 52 Nm (5.2 m • kg, 38 ft • lb) by using the torque wrench, then loosen the ring nut completely.
2. Retighten the ring nut to specification.

MAINTENANCE SPECIFICATIONS

SPEC



ELECTRICAL

Model	FZR600R
Voltage:	12 V
Ignition system: Ignition timing (B.T.D.C.) Advancer type	5° at 1,300 r/min Electrical type
<p>The graph plots Ignition timing (B.T.D.C.) on the y-axis (0 to 40) against Engine speed (x10³r/min) on the x-axis (0 to 12). Three curves are shown: 4MH1 (solid line), 4JH1,2 (dashed line), and 4JH3 (solid line with a sharp drop at 11). All curves start at approximately 5° at 0 r/min, rise to a peak between 25° and 35° between 2 and 6 r/min, and then fluctuate between 25° and 35° up to 10 r/min. The 4JH3 curve drops sharply to about 15° at 11 r/min.</p>	
T.C.I.:	
Pickup coil resistance / color T.C.I. unit model / manufacturer	189 ~ 231 Ω at 20°C (68°F) / Yellow – Blue J4T-045/MITSUBISHI
Ignition coil:	
Model / manufacturer Minimum spark gap Primary winding resistance Secondary winding resistance	83R/YAMAHA 6 mm (0.24 in) 2.2 ~ 2.6 Ω at 20°C (68°F) 10.7 ~ 13.1 kΩ at 20°C (68°F)
Spark plug cap:	
Type Resistance	Resin type 10 kΩ
Charging system:	
Type Model / manufacturer Nominal output	A.C. magneto generator F4T-353/MITSUBISHI 12 V 21 A at 5,000 r/min

MAINTENANCE SPECIFICATIONS



Model	FZR600R
Stator coil resistance / color	0.45 ~ 0.55 Ω at 20°C (68°F) / White – White
Voltage regulator: Type Model / manufacturer	Semi-conductor, short-circuit type SH650A/SHINDENGEN
Rectifier: Model / manufacturer Capacity Withstand voltage	SH650A/SHINDENGEN 25 A 240 V
Battery: Specific gravity	1.320
Electric starter system: Type Starter motor: Model / manufacturer Output Brush overall length <Limit> Commutator diameter <Wear limit> Mica undercut Starter switch: Model / manufacturer Amperage rating Coil winding resistance	Constant mesh type SM-13/MITSUBA 0.7 kW 12.5 mm (0.49 in) <4 mm (0.16 in)> 28 mm (1.10 in) <27 mm (1.06 in)> 0.7 mm (0.03 in) MS5F/JIDECO 100 A 4.0 ~ 4.8 Ω at 20°C (68°F)
Horn: Type Quantity Model / manufacturer Maximum amperage	Plane type 1 YF-12/NIKKO 2.5 A
Flasher relay: Type	Full transistor type

MAINTENANCE SPECIFICATIONS

SPEC



Model	FZR600R
Model / manufacturer	FE246BH/NIPPONDENSO
Self cancelling device	No
Flasher frequency	60 ~ 120 cycle/min
Wattage	21 W × 2 + 3.4 W
Starting circuit cut off relay:	
Model / manufacturer	G8R-30Y-B/OMRON
Coil winding resistance	203 ~ 248 Ω at 20°C (68°F)
Fuel pump relay:	
Model / manufacturer	G8R-30Y-B/OMRON
Coil winding resistance	225 Ω ± 10% at 20°C (68°F)
Thermostatic switch:	
Model / manufacturer	2EL/NIHON THERMOSTAT
Thermo unit:	
Model / manufacturer	11H/NIPPON SEIKI
Circuit breaker:	
Type	Fuse
Amperage for individual circuit	
MAIN	30 A × 1
HEAD	20 A × 1
SIGNAL	15 A × 1
IGNITION	7.5 A × 1
FAN	7.5 A × 1
Reserve	30 A × 1
Reserve	20 A × 1
Reserve	7.5 A × 1

FZR600R EXCLUSIVE SPECIFICATION



FZR600R EXCLUSIVE SPECIFICATION

The following specifications are exclusive for the below listed countries.

For specifications other than below, please refer to the General and maintenance specifications.

For England

Bulb wattage × quantity: Headlight	12V 35/35W × 2
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For Spain

Model code:	4JH2
Engine starting number:	4JH-016101
Vehicle identification number:	JYA4JHS0*RA016101
Dimensions: Overall length	2,060 mm (81.1 in)

For Italy

Dimensions: Overall length	2,060 mm (81.1 in)
Bulb wattage × quantity: Headlight	12V 35/35W × 2

For Greece, France, Portugal

Dimensions: Overall length	2,060 mm (81.1 in)
-------------------------------	--------------------

For Germany

Model code:	4MH1, 4JH3
Engine starting number:	4MH-000101, 4JH-021101
Frame starting number:	4MH-000101, 4JH-021101
Tire pressure (cold tire): Maximum load - except motorcycle	209 kg (461 lb)
Carburetor: (4MH1) I.D. mark Main jet (M.J) Jet needle (J.N) Pilot screw (P.S)	4MH1 00 #110 N1YB 1-7/8 turns out
T.C.I.: T.C.I. unit model/manufacturer	J4T-047 / MITSUBISHI (4MH1) J4T-046 / MITSUBISHI (4JH3)

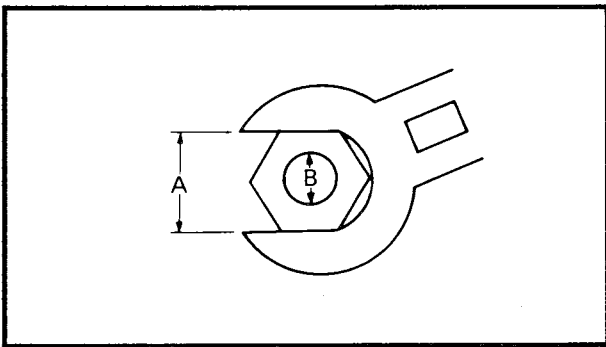
GENERAL TORQUE SPECIFICATIONS



GENERAL TORQUE SPECIFICATIONS

This chart specifies torque for standard fasteners with standard I.S.O. pitch threads. Torque specifications for special components or assemblies are included in the applicable sections of this book. To avoid warpage, tighten multi-fastener assemblies in a crisscross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

A (Nut)	B (Bolt)	General torque specifications		
		Nm	m•kg	ft•lb
10 mm	6 mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	61
22 mm	16 mm	130	13.0	94



A: Distance across flats
 B: Outside thread diameter

LUBRICATION POINT AND GRADE OF LUBRICANT



**LUBRICATION POINT AND GRADE OF LUBRICANT
ENGINE**

Lubrication Point	Symbol
Oil seal lips	
O-ring	
Bearing	
Piston surface	
Piston pin	
Crankshaft pin	
Crankshaft journal	
Connecting rod bolt/nut	
Camshaft cam lobe	
Valve stem (IN, EX)	
Valve stem end (IN, EX)	
Cylinder head bolt/nut	
Valve lifter	
Camshaft cap bolt	
Water pump impeller shaft	
Oil pump rotor (inner/outer), housing	
Oil strainer assembly	
Idle gear inner surfaces	
Transmission gear(wheel/pinion)	
Axle (main/drive)	
Push rod (bearing/washer) and ball	
Shift cam	
Shift fork/guide bar	
Shift shaft assembly	
Shift pedal	
Push lever assembly	
Starter idle gear shaft	

LUBRICATION POINT AND GRADE OF LUBRICANT



CHASSIS

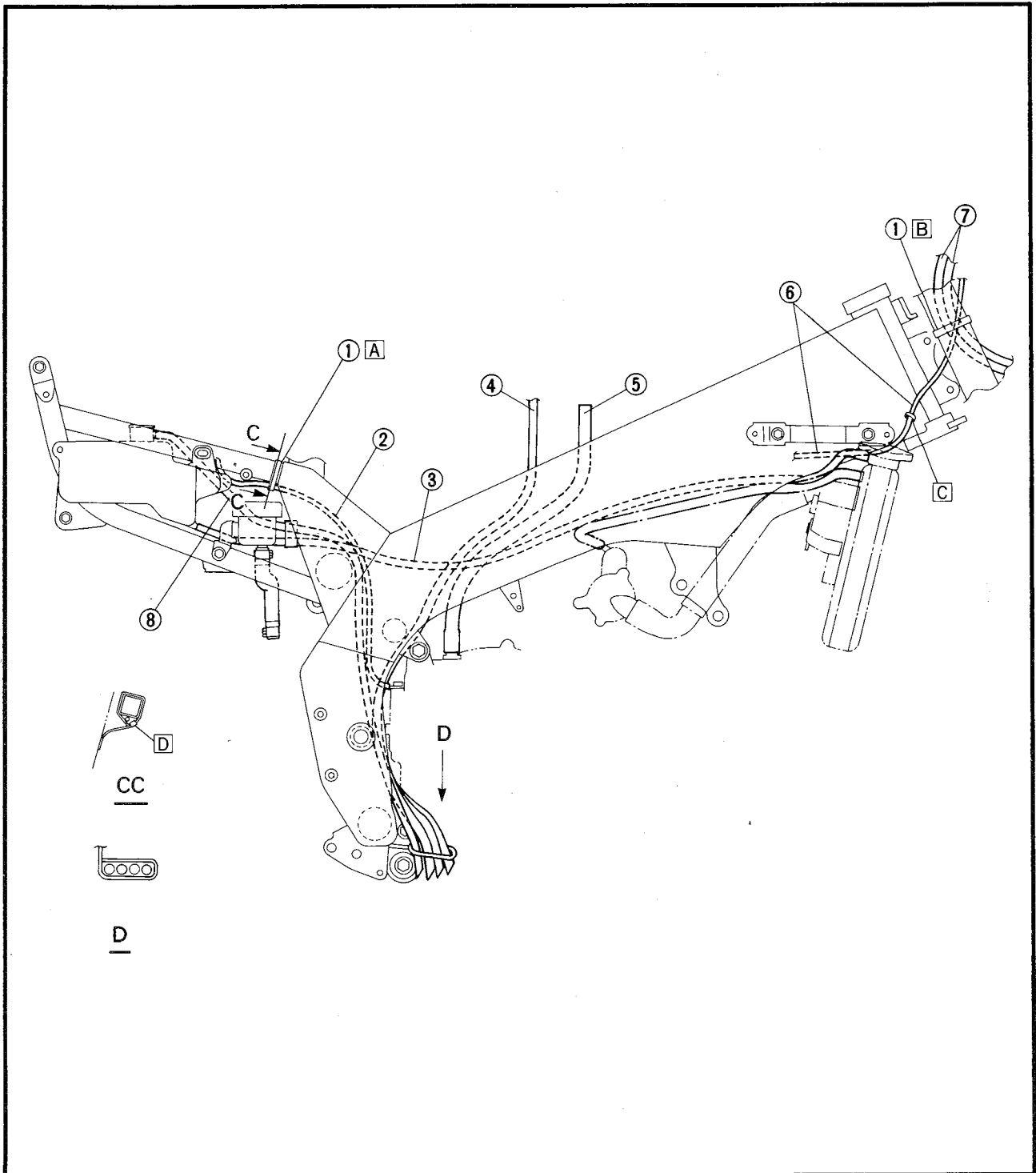
Lubrication Point	Symbol
Steering bearing and bearing race (upper/lower)	
Front wheel oil seal (right/left)	
Rear wheel oil seal	
Clutch hub oil seal	
Clutch hub fitting area	
Rear brake pedal shaft	
Change pedal	
Side stand sliding surface	
Tube guide (throttle grip) inner surface	
Brake lever bolt, sliding surface	
Clutch lever bolt, sliding surface	
Rear shock absorber (upper/lower)	
Swingarm pivot collar	
Pivot shaft	
Connecting rod bearing (on the swingarm)	
Thrust cover (inner)	
Relay arm bearing (inner)	
Relay arm oil seal	
Rear footrest pivot	



CABLE ROUTING

- ① Clamp
- ② Ground lead
- ③ Reservoir tank hose
- ④ Fuel tank breather hose
- ⑤ Crankcase breather hose
- ⑥ Handlebar switch lead (right)
- ⑦ Front brake hose
- ⑧ Reservoir tank breather hose

- Ⓐ Clamp the ground lead more than 30 mm in front of the side cover installation screw.
- Ⓑ Clamp the handlebar switch lead (right) and front brake hoses.
- Ⓒ Insert the clamp to the frame.
- Ⓓ Place the ends of the clamp on the side with the wire along the bottom of the frame.

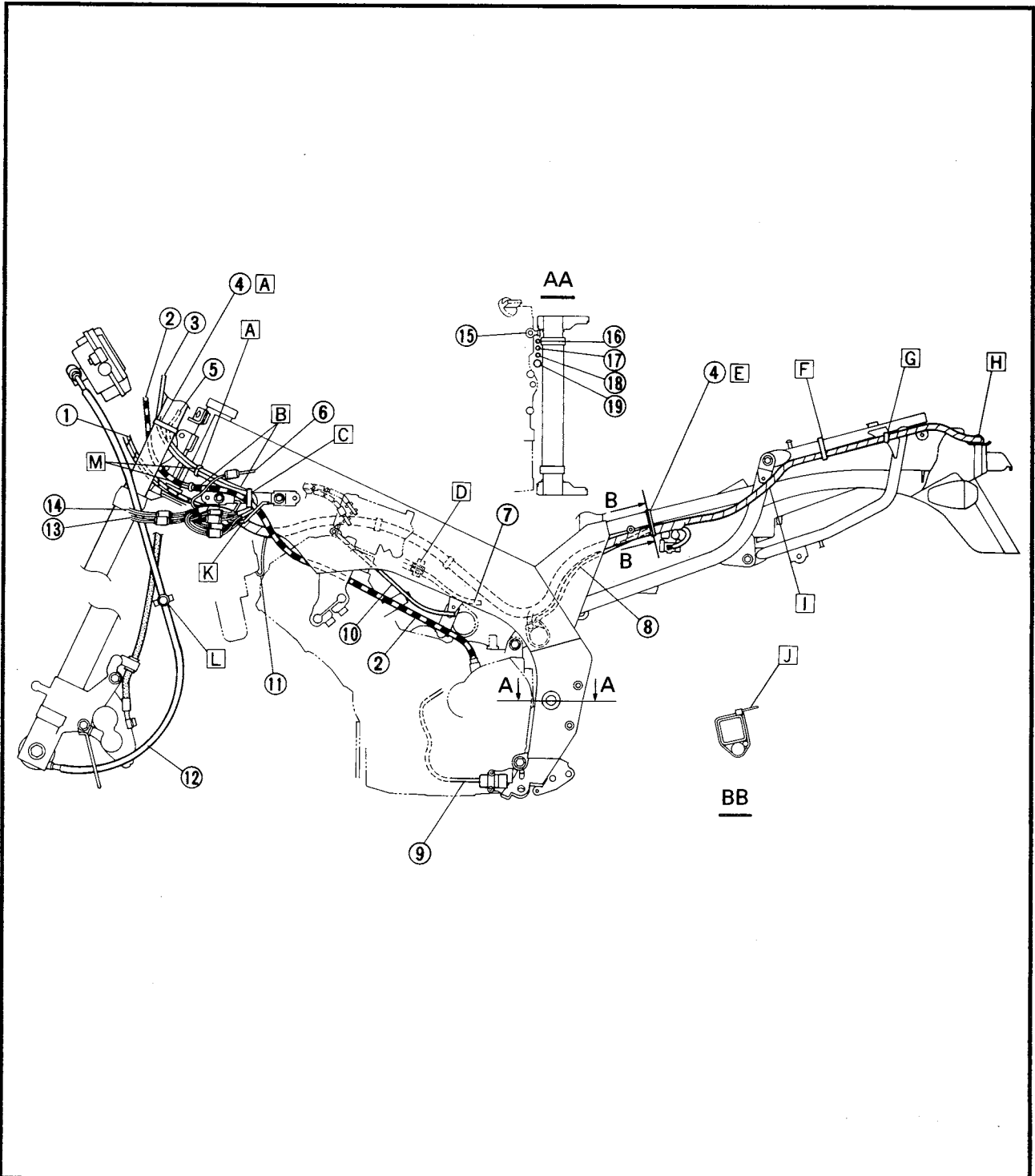


CABLE ROUTING

SPEC



- | | |
|--------------------------------|--------------------------------|
| ① Throttle cable | ⑪ Fan motor lead |
| ② Clutch cable | ⑫ Speedometer cable |
| ③ Handlebar switch lead (left) | ⑬ Headlight lead |
| ④ Clamp | ⑭ Meter light lead |
| ⑤ Main switch lead | ⑮ Ground lead |
| ⑥ Fuel reserve switch lead | ⑯ Reservoir tank breather hose |
| ⑦ Vacuum hose (#4) | ⑰ Roll over hose |
| ⑧ Starter motor lead | ⑱ Fuel tank breather hose |
| ⑨ Sidestand switch lead | |
| ⑩ Starter cable | |

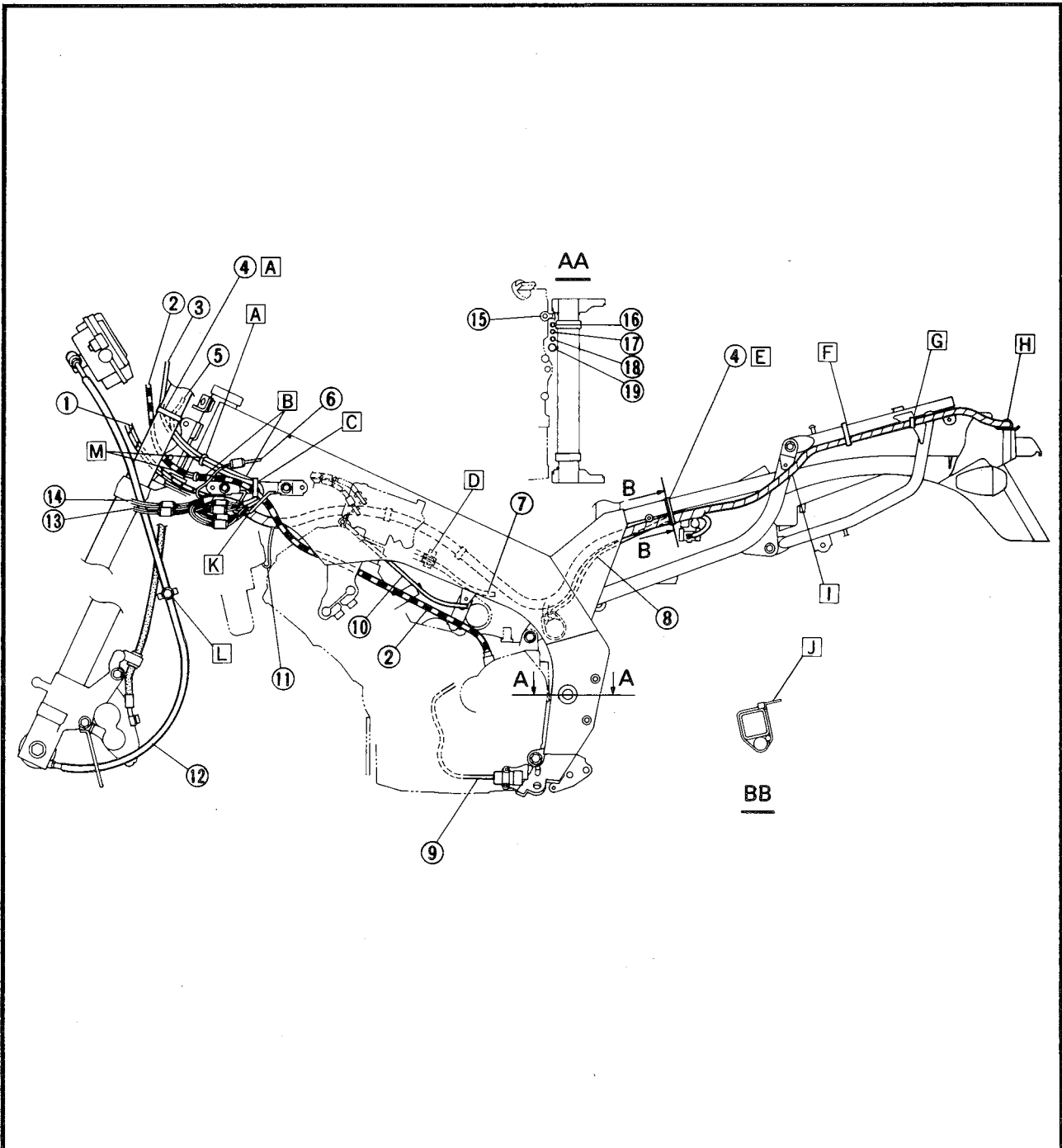


CABLE ROUTING

SPEC



- [A] Clamp the main switch lead and handlebar switch lead (left).
- [B] Pass the clutch cable along the outside of the bracket and the main switch lead along the inside of the bracket.
- [C] Clamp the main switch lead, handlebar switch lead (left) and clutch cable to the bracket.
- [D] Clamp the vacuum hose plug onto the inside of the frame and plug hoses #1 ~ #3.
- [E] Clamp the main harness and starter motor lead behind the side cover installation screw.
- [F] Place the end of the clamp downward.
- [G] Insert the clamp into the hole in the rear flame.
- [H] Insert the clamp into the seat lock stay.
- [I] Pass the main harness to the inside of the rear fender from the outside of the frame.
- [J] Place the ends of the clamp on the battery box with the wire along the bottom of the frame.
- [K] Pass the main harness, main switch lead, handlebar switch lead (left) and clutch cable through the guide.
- [L] Install the clamp to the center cowling.
- [M] Insert the clamp to the frame.

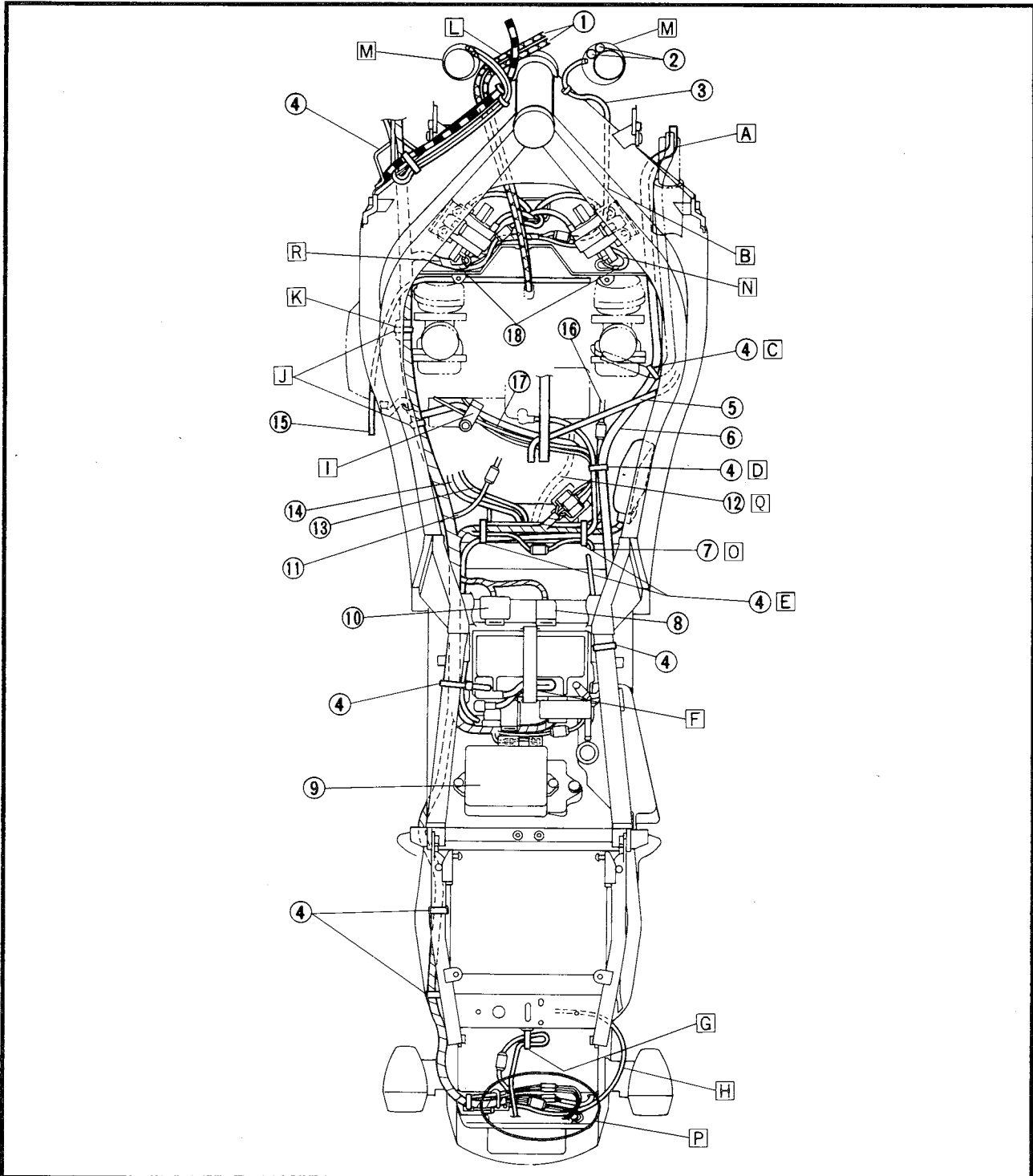


CABLE ROUTING

SPEC



- ① Throttle cable
- ② Front brake hose
- ③ Handlebar switch lead (right)
- ④ Clamp
- ⑤ Vacuum hose (#4)
- ⑥ Reservoir tank hose
- ⑦ Rear brake switch lead
- ⑧ Flasher relay
- ⑨ Ignitor
- ⑩ Starting circuit cut-off relay
- ⑪ Fuel pump lead
- ⑫ Roll over hose (for D)
- ⑬ Fuel tank breather hose
- ⑭ Air filter case breather hose
- ⑮ Starter cable
- ⑯ Thermo unit lead
- ⑰ Sidestand switch lead
- ⑱ Ignition coil lead

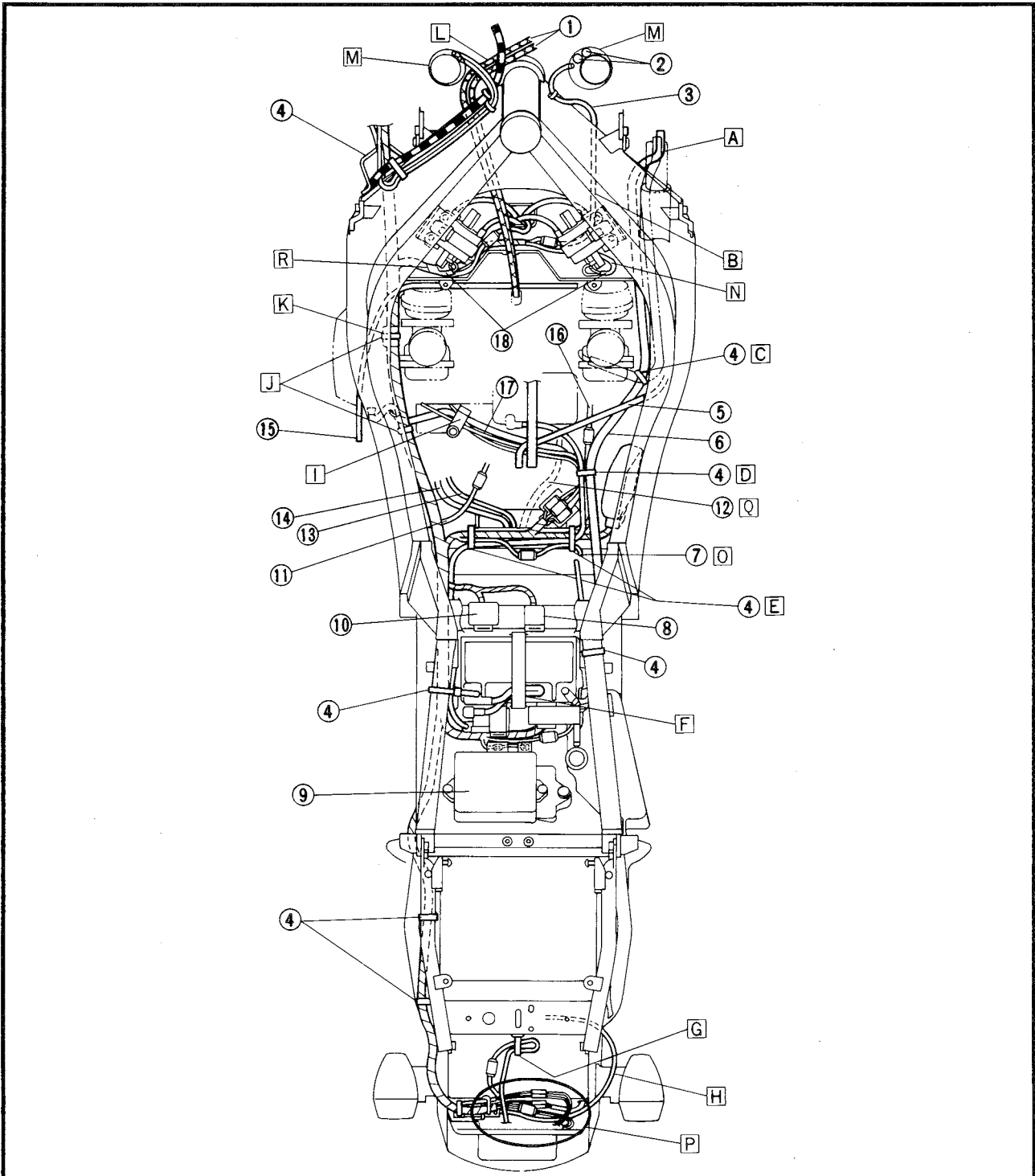


CABLE ROUTING

SPEC



- A Pass the reservoir tank hose through the innermost part of the frame.
- B Pass the handlebar switch lead (right) between the radiator cover and frame and place it outside only after it is connected.
- C Clamp the reservoir tank hose and air breather hose.
- D Clamp the reservoir tank hose and all leads.
- E Clamp the main harness, rear brake switch lead and starter motor lead to the cross tube.
- F Hold down the positive lead with the battery band.
- G Insert the clamp to the fender stay.
- H Insert the seat lock cable from the rear fender from the outside.
- I Clamp the sidestand switch lead, AC generator lead and neutral switch lead.

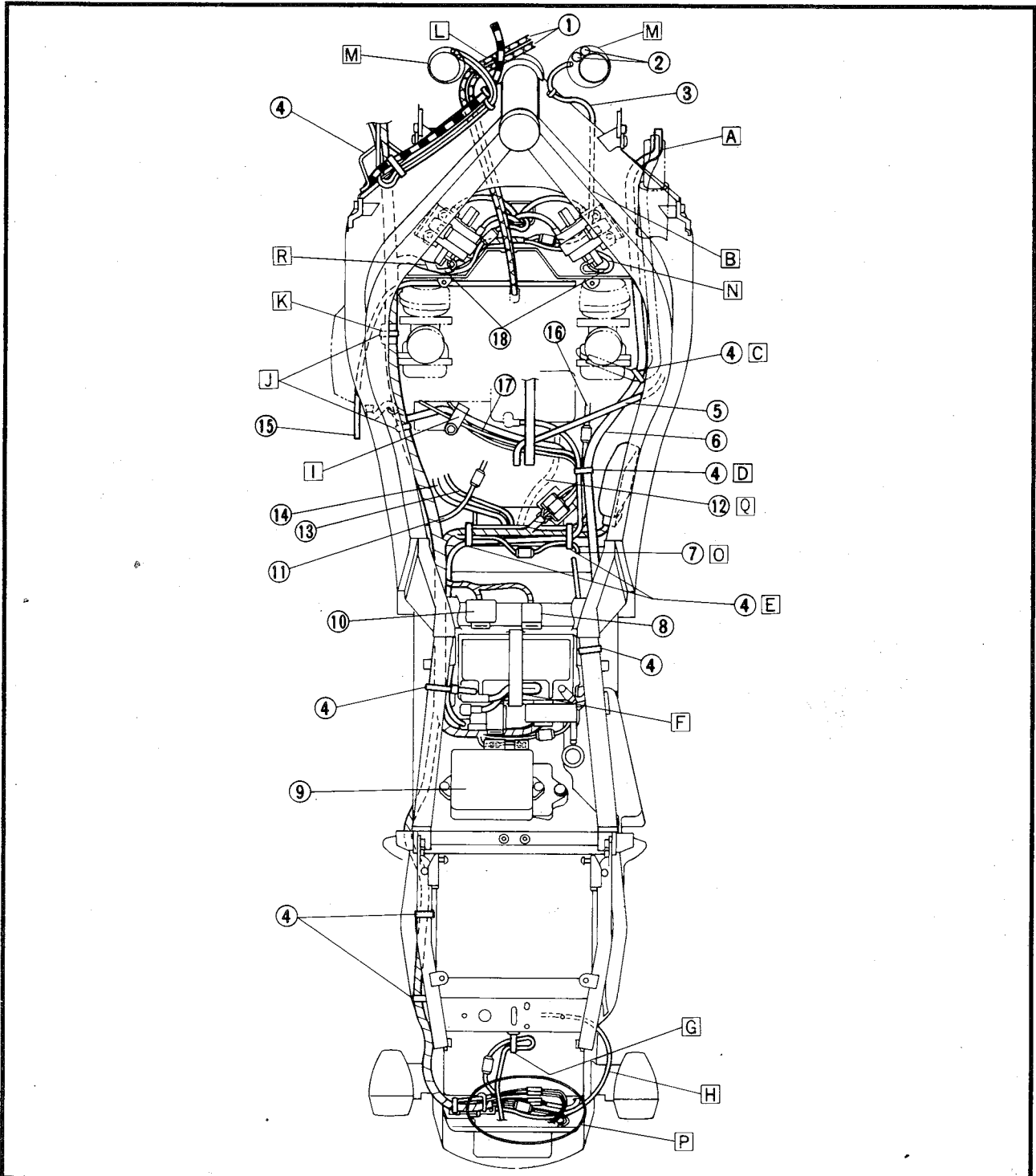


CABLE ROUTING

SPEC



- J** Insert the clamp to the inside of the frame.
- K** Clamp the main harness at the white tape position.
- L** Pass the throttle cable below the lead and clutch cable and above the cowling stay.
- M** Cut the spare band.
- N** The ignition coil lead passes below and outside the ignition coil.
- O** The rear brake switch lead passes in front of the negative lead.
- P** Insert the flasher lead and license lead between the rear fender and seat lock.
- Q** The roll over hose passes to the right and below the vacuum hose and fuel hose (for D).
- R** The wireharness passes below the ignition coil lead.



INTRODUCTION/PERIODIC MAINTENANCE/ LUBRICATION INTERVALS



PERIODIC INSPECTION AND ADJUSTMENT

INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

PERIODIC MAINTENANCE/LUBRICATION INTERVALS

Unit: Km (mi)

ITEM	REMARKS	BREAK-IN 1,000 (600)	EVERY	
			6,000 (4,000) or 6 months	12,000 (8,000) or 12 months
Valve(s)*	Check valve clearance. Adjust if necessary.	EVERY 24,000 (16,000)		
Spark plug(s)	Check condition. Clean or replace if necessary.	○	○	○
Air filter	Clean. Replace if necessary.		○	○
Carburetor*	Check idle speed/synchronization/starter operation. Adjust if necessary.	○	○	○
Fuel line*	Check fuel hose for cracks or damage. Replace if necessary.		○	○
Fuel filter*	Check condition. Replace if necessary.			○
Engine oil	Replace (warm engine before draining).	○	○	○
Engine oil filter*	Replace.	○		○
Brake*	Check operation/fluid leakage (see NOTE). Correct if necessary.		○	○
Clutch	Check operation. Adjust if necessary.		○	○
Rear arm pivot*	Check rear arm assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.***			○
Rear suspension link pivots*	Check operation. Apply grease lightly every 24,000 (16,000) or 24 months. ***			○
Wheels*	Check balance/damage/runout. Repair if necessary.		○	○
Wheel bearings*	Check bearing assembly for looseness/damage. Replace if damaged.		○	○
Steering bearings*	Check bearing assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.**	○		○
Front forks*	Check operation/oil leakage. Repair if necessary.		○	○
Rear shock absorber*	Check operation/oil leakage. Repair if necessary.		○	○
Cooling system	Check coolant leakage. Repair if necessary. Replace coolant every 24,000 (16,000) or 24 months.		○	○
Drive chain	Check chain slack/alignment. Adjust if necessary. Clean and lube.	EVERY 500 (300)		
Fittings/Fasteners*	Check all chassis fittings and fasteners. Correct if necessary.	○	○	○
Sidestand*	Check operation. Repair if necessary.	○	○	○
Sidestand switch*	Check operation. Clean or replace if necessary.	○	○	○

PERIODIC MAINTENANCE/LUBRICATION INTERVALS



*: It is recommended that these items be serviced by a Yamaha dealer.

** : Medium weight wheel bearing grease.

*** : Molybdenum disulfide grease.

NOTE:

Brake fluid replacement:

1. When disassembling the master cylinder or caliper cylinder, replace the brake fluid. Normally check the brake fluid level and add the fluid as required.
2. On the inner parts of the master cylinder and caliper cylinder, replace the oil seals every two years.
3. Replace the brake hoses every four years, or if cracked or damaged.



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