YAMAHA

XP500(N) 2001

5GJ1-SE1

SERVICE INFORMATION

FOREWORD

This Service Information has been prepared to introduce new service and data for the XP500 (N). For complete service information procedures it is necessary to use this Service Information together with the following manual.

XP500 (N) SERVICE MANUAL: 5GJ1-ME1

EAS00000

XP500 (N)
SERVICE INFORMATION

First edition, September 2000

EAS00002

NOTICE

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha vehicles should have a basic understanding of mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

NOTE:

Designs and specifications are subject to change without notice.

EAS00005

IMPORTANT INFORMATION

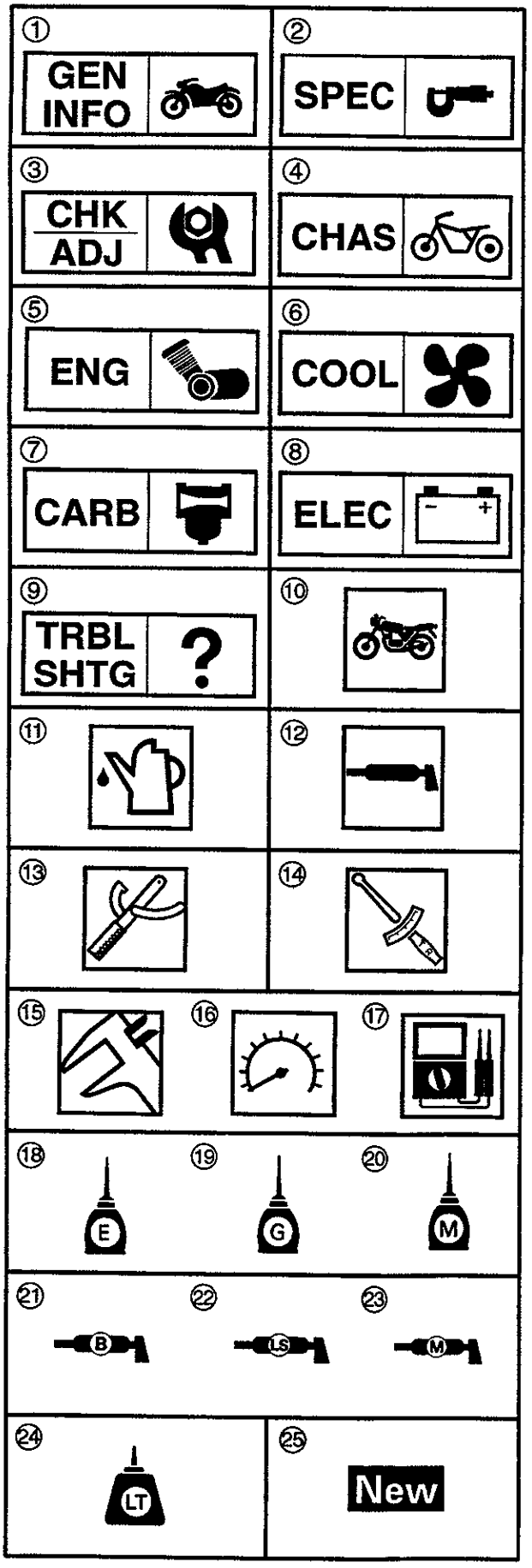
Particularly important information is distinguished in this manual by the following.

⚠ 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 scooter operator, a bystander or a person checking or repairing the scooter.

CAUTION: A CAUTION indicates special precautions that must be taken to avoid damage to the scooter.

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



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SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

① General information
② Specifications
③ Periodic checks and adjustments
④ Chassis
⑤ Engine
⑥ Cooling system
⑦ Carburetor(-s)
⑧ Electrical system
⑨ Troubleshooting

Symbols ⑩ to ⑰ indicate the following.

⑩ Serviceable with engine mounted
⑪ Filling fluid
⑫ Lubricant
⑬ Special tool
⑭ Tightening torque
⑮ Wear limit, clearance
⑯ Engine speed
⑰ Electrical data

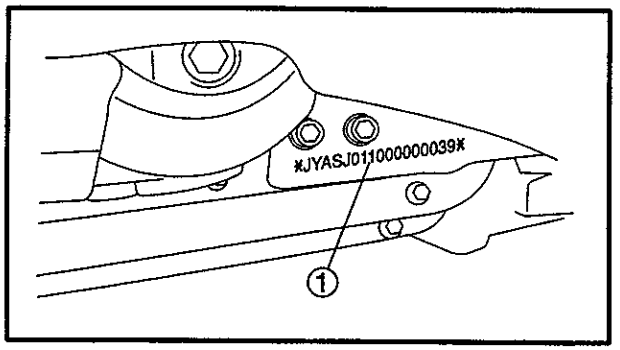
Symbols ⑱ to ㉓ in the exploded diagrams indicate the types of lubricants and lubrication points.

⑱ Engine oil
⑲ Gear oil
⑳ Molybdenum disulfide oil
㉑ Wheel bearing grease
㉒ Lithium soap base grease
㉓ Molybdenum disulfide grease

Symbols ㉔ to ㉕ in the exploded diagrams indicate the following:

㉔ Apply locking agent (LOCTITE®)
㉕ Replace the part

CONTENTS



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GENERAL INFORMATION

SCOOTER IDENTIFICATION

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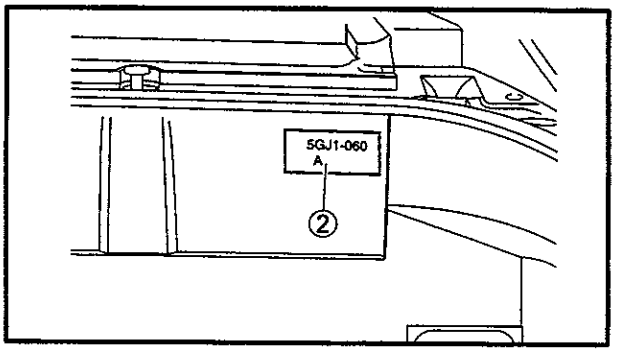
VEHICLE IDENTIFICATION NUMBER

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



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MODEL CODE

The model code label ② is affixed to the luggage Box. This information will be needed to order spare parts.

SPECIFICATIONS

GENERAL SPECIFICATIONS

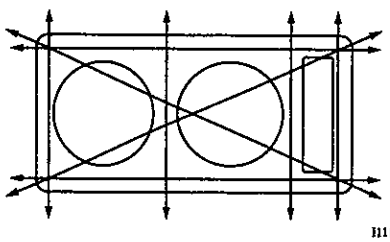
Item	Standard	Limit
Model code	XP500 (N) : 5GJ1 (EUR) 5GJ2 (GBR) 5GJ3 (OCE)	•••
Dimensions		
Overall length	2235 mm	•••
Overall width	775 mm	•••
Overall height	1410 mm	•••
Seat height	795 mm	•••
Wheelbase	1575 mm	•••
Minimum ground clearance	130 mm	•••
Minimum turning radius	2800 mm	•••
Weight		
Wet (with oil and a full fuel tank)	205 kg	•••
Dry (without oil and fuel)	197 kg	•••
Maximum load (total of cargo, rider, passenger, and accessories)	183 kg	•••

ENGINE SPECIFICATIONS

Item	Standard	Limit
Engine		
Engine tipe	Liquid-cooled, 4-stroke, DOHC	•••
Displacement	499 cm^3	•••
Cylinder arrangement		•••
Bore × stroke	66 × 73 mm	•••
Compression ratio	10.1	•••
Engine idling speed	1150 ~ 1250 r/min	•••
Vacuum pressure at engine idling speed	35 kPa (3.5 kg/cm^2)	•••
Standard compression pressure (at sea level)	1450 kPa (14.5 kg/cm^2) at 360 r/min	•••
Fuel		
Recommended fuel	Regular unleaded gasoline	•••
Fuel tank capacity		
Total (including reserve)	14L	•••
Engine oil		
Lubrication system	Dry sump	•••
Recommended oil	SAE10W30 or SAE10W40 API service SE, SF, SG type or higher	•••
Quantity		
Total amount	3.6 L	•••
Without oil filter cartridge replacement	2.8 L	•••
With oil filter cartridge replacement	2.9 L	•••
Oil pressure (hot)	150 kPa at 1200 r/min (1.50 kgf/cm^2 at 1200 r/min)	•••
Relief valve opening pressure	450 ~ 550 kPa (4.5 ~ 5.5 kgf/cm^2)	•••

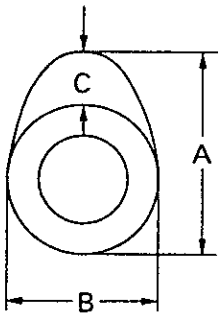
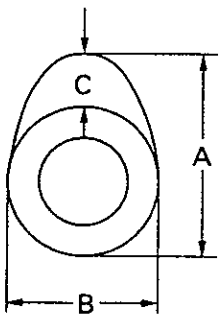
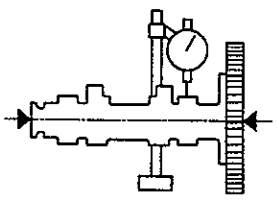
ENGINE SPECIFICATIONS

SPEC

Item	Standard	Limit
Oil filter		
Oil filter type	Cartridge (paper)	•••
Bypass valve opening pressure	80 ~ 120 kPa (0.8 ~ 1.2 kgf/cm^2)	•••
Oil pump		
Oil pump type	Trochoidal	•••
Inner-rotor-to-outer-rotor-tip clearance	0.04 ~ 0.12 mm	0.20 mm
Outer-rotor-to-oil-pump-housing clearance	0.045 ~ 0.085 mm	0.15 mm
Cooling system		
Radiator capacity	1.5 L	
Radiator cap opening pressure	107.9 ~ 137.3 kPa (1.079 ~ 1.373 kgf/cm^2)	•••
Radiator core		
Width	330 mm	•••
Height	138 mm	•••
Depth	24 mm	•••
Coolant reservoir		
Capacity	0.6 L	•••
Water pump		
Water pump type	Single-suction centrifugal pump	•••
Reduction ratio	23/19 (1.210)	•••
Starting system type	Electric starter	
Spark plugs		
Model (manufacturer) × quantity	CR 7E/NGK × 2	•••
Spark plug gap	0.7 ~ 0.8 mm	•••
Cylinder head		
Max. warpage	•••	0.10 mm
		

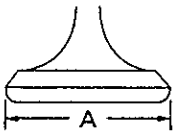
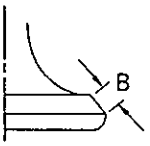
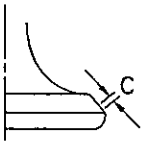
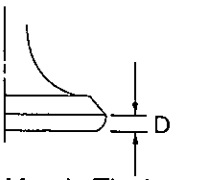
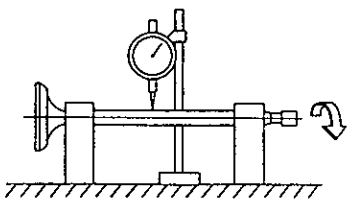
ENGINE SPECIFICATIONS

SPEC

Item	Standard	Limit
Camshafts		
Drive system	Chain drive (left)	•••
Camshaft cap inside diameter	23.000 ~ 23.021 mm	•••
Camshaft journal diameter	22.967 ~ 22.980 mm	•••
Camshaft-journal-to-camshaftcap clearance	0.020 ~ 0.054 mm	0.08 mm
Intake camshaft lobe dimensions		
		
Measurement A	33.252 ~ 33.352 mm	33.152 mm
Measurement B	24.956 ~ 25.056 mm	24.856 mm
Measurement C	8.196 ~ 8.396 mm	•••
Exhaust camshaft lobe dimensions		
		
Measurement A	33.252 ~ 33.352 mm	33.152 mm
Measurement B	24.956 ~ 25.056 mm	24.856 mm
Measurement C	8.196 ~ 8.396 mm	•••
Max. camshaft runout	•••	0.03 mm
		

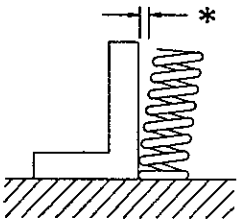
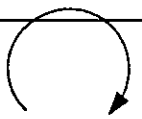
ENGINE SPECIFICATIONS

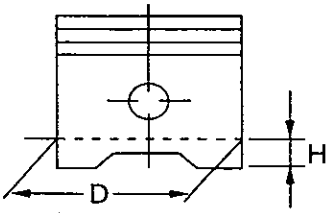
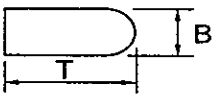
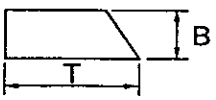
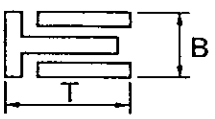
SPEC

Item	Standard	Limit
Timing chain		
Model/number of links	SCR-0409SDH/132	•••
Tensioning system	Automatic	•••
Valves, valve seats, valve guides		
Valve clearance (cold)		
Intake	0.15 ~ 0.20 mm	•••
Exhaust	0.25 ~ 0.30 mm	•••
Valve dimensions		
 Head Diameter	 Face Width	 Seat Width
 Margin Thickness		
Valve head diameter A		
Intake	24.9 ~ 25.1 mm	•••
Exhaust	21.9 ~ 22.1 mm	•••
Valve face width B		
Intake	1.14 ~ 1.98 mm	•••
Exhaust	1.14 ~ 1.98 mm	•••
Valve seat width C		
Intake	0.9 ~ 1.1 mm	1.6 mm
Exhaust	0.9 ~ 1.1 mm	1.6 mm
Valve margin thickness D		
Intake	0.6 ~ 0.8 mm	0.5 mm
Exhaust	0.6 ~ 0.8 mm	0.5 mm
Valve stem diameter		
Intake	3.975 ~ 3.990 mm	3.95 mm
Exhaust	3.960 ~ 3.975 mm	3.935 mm
Valve guide inside diameter		
Intake	4.000 ~ 4.012 mm	4.05 mm
Exhaust	4.000 ~ 4.012 mm	4.05 mm
Valve-stem-to-valve-guide clearance		
Intake	0.010 ~ 0.037 mm	0.08 mm
Exhaust	0.025 ~ 0.052 mm	0.1 mm
Valve stem runout	•••	0.04 mm
		
Valve seat width		
Intake	0.9 ~ 1.1 mm	1.6 mm
Exhaust	0.9 ~ 1.1 mm	1.6 mm

ENGINE SPECIFICATIONS

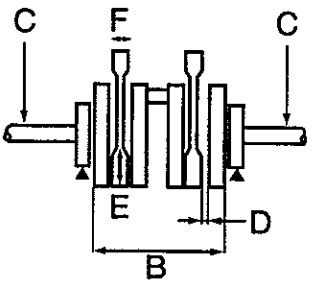
SPEC

Item	Standard	Limit
Valve springs		
Free length		
Intake	35.59 mm	33.81 mm
Exhaust	35.59 mm	33.81 mm
Installed length (valve closed)		
Intake	30.39 mm	•••
Exhaust	30.39 mm	•••
Compressed spring force (installed)		
Intake	91.1 ~ 104.9 N (9.3 ~ 10.7 kgf) at 30.4 mm	•••
Exhaust	91.1 ~ 104.9 N (9.3 ~ 10.7 kgf) at 30.4 mm	•••
Spring tilt		
Intake (inner)	•••	2.5°/1.6 mm
Exhaust	•••	2.5°/1.6 mm
Winding direction (top view)	Clockwise	•••
Intake	Clockwise	•••
Exhaust		
Cylinders		
Cylinder arrangement	Forward-included parallel-2 cylinder	•••
Bore × stroke	66.0 × 73.0 mm	•••
Compression ratio	10.1	•••
Bore	66.00 ~ 66.01 mm	•••
Max. taper	•••	0.05 mm
Max. out-of-round	•••	0.05 mm

Item	Standard	Limit
Pistons		
Piston-to-cylinder clearance	0.020 ~ 0.045 mm	0.15 mm
Diameter D	65.965 ~ 65.980 mm	•••
		
Height H	9 mm	•••
Piston pin bore (in the piston)		
Diameter	16.002 ~ 16.013 mm	•••
Offset	0.5 mm	•••
Offset direction	Intake side	•••
Piston pins		
Outside diameter	15.991 ~ 16.000 mm	•••
Piston-pin-to-piston-pin-bore clearance	0.002 ~ 0.022 mm	0.072 mm
Piston rings		
Top ring		
		
Ring type	Barrel	•••
Dimensions (B × T)	0.80 × 2.45 mm	•••
End gap (installed)	0.15 ~ 0.25 mm	0.50 mm
Ring side clearance	0.030 ~ 0.065 mm	0.115 mm
2nd ring		
		
Ring type	Plain	•••
Dimensions (B × T)	0.8 × 2.5 mm	•••
End gap (installed)	0.4 ~ 0.5 mm	0.75 mm
Ring side clearance	0.020 ~ 0.055 mm	0.105 mm
Oil ring		
		
Dimensions (B × T)	1.5 × 2.0 mm	•••
End gap (installed)	0.10 ~ 0.35 mm	•••

ENGINE SPECIFICATIONS

SPEC

Item	Standard	Limit
Connecting rods		
Crankshaft-pin-to-big-end-bearing clearance	0.026 ~ 0.050 mm	•••
Bearing color code	1 = Blue 2 = Black 3 = Brown 4 = Green	•••
Crankshaft		
		
Width B	118.55 ~ 118.60 mm	•••
Max. runout C		0.03 mm
Big end side clearance D	0.160 ~ 0.262 mm	•••
Big end radial clearance E	0.026 ~ 0.050 mm	•••
Small end free play F	0.32 ~ 0.50 mm	•••
Crankshaft-journal-to-crankshaft-journal-bearing clearance	0.040 ~ 0.082 mm	•••
Bearing color code	1 = Blue 2 = Black 3 = Brown 4 = Green	•••
Clutch		
Clutch type	Wet, multiple disc automatic	•••
Clutch release method	Automatic	
Friction plates		
Thickness	2.75 ~ 3.05 mm	2.65 mm
Plate quantity	5	•••
Friction plate		
Thickness	1.8 ~ 2.0 mm	•••
Plate quantity	2	•••
Max. warpage	•••	1.7 mm
Clutch plate		
Thickness	1.3 ~ 1.5 mm	
Plate quantity	4	
Max. warpage	•••	0.1 mm
Clutch springs		
Free length	25.9 mm	25.4 mm
Spring quantity	6	•••
V-belt		
V-belt width	32 mm	30.5 mm

ENGINE SPECIFICATIONS

SPEC

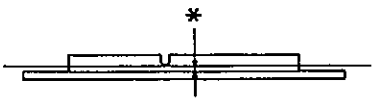
Item	Standard	Limit
Transmission		
Primary reduction system	Spur gear/helical gear	•••
Primary reduction ratio	52/32 × 36/22 (2.659)	•••
Secondary reduction system	Chain drive	•••
Secondary reduction ratio	41/25 × 40/29 (2.262)	•••
Max. main axle runout	•••	0.08 mm
Max. drive axle runout	•••	0.08 mm
Air filter type	Dry element	•••
Fuel pump		
Pump type	Electrical	•••
Model (manufacturer)	3LN (MITSUBISHI)	•••
Output pressure	8.3 ~ 12.3 kPa (0.83 ~ 0.123 kgf/cm^2)	•••
Carburetors		
Model (manufacturer) × quantity	BS30 (MIKUNI) × 2	•••
Throttle cable free play (at the flange of the throttle grip)	3 ~ 5 mm	•••
ID mark	5GJ1 00	•••
Main jet	#102.5	•••
Main air jet	#100	•••
Jet needle	4DK4-3/5	•••
Needle jet	0-OM (#893)	•••
Pilot air jet	#85	•••
Pilot air jet	#170	•••
Pilot outlet	0.8	•••
Pilot jet	#22.5	•••
Bypass 1	0.8	•••
Bypass 2	0.8	•••
Bypass 3	0.8	•••
Pilot screw turns out	2	•••
Valve seat size	1.0	•••
Fuel level (below the line on the float chamber)	5.5 ~ 6.5 mm	•••

CHASSIS SPECIFICATIONS

Item	Standard	Limit
Frame		
Frame type	Diamond	•••
Caster angle	28°	•••
Trail	95 mm	•••
Front wheel		
Wheel type	Cast wheel	•••
Rim		
Size	14 × MT3.50	•••
Material	Aluminum	•••
Wheel travel	120 mm	•••
Wheel runout		
Max. radial wheel runout	•••	1 mm
Max. lateral wheel runout	•••	0.5 mm
Rear wheel		
Wheel type	Cast wheel	•••
Rim		
Size	14 × MT4.50	•••
Material	Aluminum	•••
Wheel travel	120 mm	•••
Wheel runout		
Max. radial wheel runout	•••	1 mm
Max. lateral wheel runout	•••	0.5 mm
Front tire		
Tire type	Tubeless	•••
Size	120/70-14	•••
Model (manufacturer)	BRIDGESTONE HOOP B03	•••
	DUNLOP D305FA	•••
Tire pressure (cold)		
0 ~ 90 kg	200 kPa (2.0 kg/cm^2, 2.0 bar)	•••
90 ~ 197 kg	225 kPa (2.25 kg/cm^2, 2.25 bar)	•••
High-speed riding	225 kPa (2.25 kg/cm^2, 2.25 bar)	•••
Min. tire tread depth	•••	1.6 mm

CHASSIS SPECIFICATIONS

SPEC

Item	Standard	Limit
Rear tire		
Tire type	Tubeless	•••
Size	150/70-14	•••
Model (manufacturer)	BRIDGESTONE HOOP B02 DUNLOP D305	•••
Tire pressure (cold)		
0 ~ 90 kg	225 kPa (2.25 kg/cm^2, 2.25 bar)	•••
90 ~ 197 kg	250 kPa (2.50 kg/cm^2, 2.50 bar)	•••
High-speed riding	250 kPa (2.5 kg/cm^2, 2.5 bar)	•••
Min. tire tread depth		1.6 mm
Front brakes		
Brake type	Single-disc brake	•••
Operation	Right-hand operation	•••
Recommended fluid	DOT 4	•••
Brake discs		
Diameter × thickness	282 × 5 mm	•••
Min. thickness	•••	4.5 mm
Max. deflection	•••	0.15 mm
Brake pad lining thickness	6.0 mm	0.8 mm
		
Master cylinder inside diameter	14 mm	•••
Caliper cylinder inside diameter	30.16 mm and 33.34 mm	•••
Rear brake		
Brake type	Single-disc brake	•••
Operation	Left-hand operation	•••
Recommended fluid	DOT 4	•••
Brake discs		
Diameter × thickness	267 × 5 mm	•••
Min. thickness	•••	3.5 mm
Max. deflection	•••	0.15 mm
Brake pad lining thickness	8.3 mm	0.8 mm
		
Master cylinder inside diameter	12.7 mm	•••
Caliper cylinder inside diameter	38.1 mm	•••

CHASSIS SPECIFICATION

SPEC

Item	Standard	Limit
Front suspension		
Suspension type	Telescopic fork	•••
Front fork type	Coil spring/oil damper	•••
Front fork travel	120 mm	•••
Spring		
Free length	428.5 mm	419.9 mm
Spacer length	129.6 mm	•••
Installed length	419.5 mm	•••
Spring rate (K1)	11.8 N/mm (1.2 kgf/mm)	•••
Spring rate (K2)	15.7 N/mm (1.6kgf/mm)	•••
Spring rate (K3)	19.6 N/mm (2 kgf/mm)	•••
Spring stroke (K1)	0 ~ 19 mm	•••
Spring stroke (K2)	19 ~ 83 mm	•••
Spring stroke (K3)	83 ~ 120 mm	•••
Optional spring available	No	•••
Fork oil		
Recommended oil	Suspension oil "01" or equivalent	•••
Quantity (each front fork leg)	402 cm^3	•••
Level (from the top of the innertube, with the inner tube fullycompressed, and without thefork spring)	135 mm	•••
Steering		
Steering bearing type	Angular ball bearings	•••
Rear suspension		
Suspension type	Swingarm (link suspension)	•••
Rear shock absorber assemblytype	Coil spring/gas-oil damper	•••
Rear shock absorber assemblytravel	44.5 mm	•••
Spring		
Free length	190 mm	•••
Installed length	180 mm	•••
Spring rate (K1)	226 N/mm (23.05 kgf/mm)	•••
Spring rate (K2)	294 N/mm (29.98 kgf/mm)	•••
Spring stroke (K1)	0 ~ 30 mm	•••
Spring stroke (K2)	30.0 ~ 44.5 mm	•••
Optional spring available	No	•••
Standard spring preload gas/air pressure	4.9 kPa (0.05 kg/cm^2)	•••
Drive chain		
Model (manufacturer)	23RH303.5-82ASM (Borg warner)	•••
Link quantity	82	•••
Primary chain		
Model (manufacturer)	89HV302.5RCF-66 (Borg warner)	•••
Link quantity	66	•••

ELECTRICAL SPECIFICATIONS

Item	Standard	Limit
System voltage	12 V	•••
Ignition system		
Ignition system type	T.C.I.	•••
Ignition timing	10° BTDC at 1200 r/min	•••
Advancer type	Digital	•••
Pickup coil resistance/color	189 ~ 231 Ω/Gy-B	•••
Transistorized coil ignition unit model (manufacturer)	J4T120 (MITSUBISHI)	•••
Ignition coils		
Model	J0313	•••
Minimum ignition spark gap	6 mm	•••
Primary coil resistance	1.87 ~ 2.53 Ω	•••
Secondary coil resistance	12 ~ 18 kΩ	•••
Throttle position sensor standard resistance	4 ~ 6 kΩ	•••
Charging system		
System type	AC magneto	•••
Model (manufacturer)	F4T373 (MITSUBISHI)	•••
Nominal output	14 V/305W at 5,000 r/min	•••
Stator coil resistance	0.375 Ω	•••
Voltage regulator		
Regulator type	Semiconductor, short circuit type	•••
Model (manufacturer)	SH650A-12 (SHINDENGEN)	•••
No-load regulated voltage	14.1 ~ 14.9 V	•••
Rectifier		
Model	SH650A-12	•••
Rectifier capacity	18 A	•••
Withstand voltage	200 V	•••
Battery		
Battery type	GT9B-4	•••
Battery voltage/capacity	12 V/8 Ah	•••
Headlight type	Halogen bulb	•••
Bulbs (voltage/wattage × quantity)		
Headlight	12 V 60 W/55 W + 55 W	•••
Auxiliary light	12 V 5 W × 2	•••
Tail/brake light	12 V 5 W/21 W × 2	•••
Turn signal light (Front)	12 V 21 W/5 W × 2	•••
Turn signal light (Rear)	12 V 21 W × 2	•••

ELECTRICAL SPECIFICATIONS

SPEC

Item	Standard	Limit
License plate light	12 V 5 W × 1	•••
Meter light	12 V 1.7 W × 3	•••
High beam indicator light	12 V 1.7 W × 1	•••
Oil level indicator light	12 V 1.7 W × 1	•••
Turn signal indicator light	12 V 3.4 W × 2	•••
Electric starting system		
System type	Constant mesh	•••
Starter motor		
Model (manufacturer)	SM-13 (MITSUBA)	•••
Power output	0.7 kW	•••
Brushes		
Overall length	12 mm	4.0 mm
Spring force	7.65 ~ 10.01 N (780 ~ 1021 gf)	•••
Commutator resistance	0.0015 ~ 0.0025 Ω	•••
Commutator diameter	28 mm	27 mm
Mica undercut	0.7 mm	•••
Starter relay		
Model (manufacturer)	MS5F-561 (JIDECO)	•••
Amperage	180 A	•••
Coil resistance	4.18 ~ 4.62 Ω	•••
Horn		
Horn type	Plain	•••
Model (manufacturer) × quantity	YF-12 (NIKKO) × 2	•••
Max. amperage	3 A	•••
Flasher relay		
Relay type	Full-transistor	•••
Model (manufacturer)	FE246BH (DENSO)	•••
Self-cancelling device built-in	No	•••
Turn signal blinking frequency	75 ~ 95 cycles/min.	•••
Wattage	21 W × 2 + 3.4 W	•••
Fuel sender		
Model (manufacturer)	5GJ (NIPPON SEIKI)	•••
Resistance (Full)	4 ~ 10 Ω	•••
(Empty)	90 ~ 100 Ω	•••
Sidestand relay		
Model	ACA12115-1	•••
Coil resistance	70 ~ 90 Ω	•••
Fuel pump maximum amperage	1 A	•••
Fuel pump relay model	ACA12115 MC2	•••
Resistance	70 ~ 90 Ω	•••
Thermo switch model (manufacturer)	5GH, 5GJ (NIPPON TERMOSTAT)	•••

ELECTRICAL SPECIFICATIONS

SPEC

Item	Standard	Limit
Temperature sender		
Resistance	69 Ω at 80°C	•••
	22 Ω at 120°C	•••
Fuses (amperage × quantity)		
Main fuse	30 A × 1	•••
Headlight fuse	15 A × 1	•••
Signaling system fuse	15 A × 1	•••
Ignition fuse	10 A × 1	•••
Radiator fan fuse	15 A × 1	•••
Backup fuse (odometer)	10 A × 1	•••
Reserve fuse	30 A × 1	•••
	15 A × 1	•••
	10 A × 1	•••

EB201000

CONVERSION TABLE

All specification data in this manual are listed in SI and METRIC UNITS.
Use this table to convert METRIC unit data to IMPERIAL unit data.
Ex.

METRIC		MULTIPLIER		IMPERIAL
**mm	×	0.03937	=	**in
2 mm	×	0.03937	=	0.08 in

CONVERSION TABLE

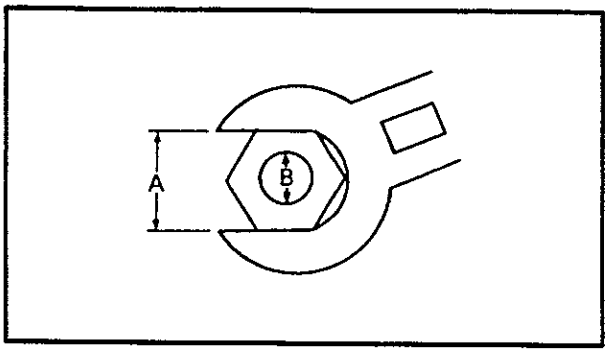
METRIC TO IMPERIAL			
	Metric unit	Multiplier	Imperial unit
Tightening torque	m•kg m•kg cm•kg cm•kg	7.233 86.794 0.0723 0.8679	ft•lb in•lb ft•lb in•lb
Weight	kg g	2.205 0.03527	lb oz
Speed	km/hr	0.6214	mph
Distance	km m m ~~cm~~ mm	0.6214 3.281 1.094 ~~0.3937~~ 0.03937	mi ft yd ~~in~~ in
Volume/ Capacity	cc (cm^3) cc (cm^3) lt (liter) lt (liter)	0.03527 0.06102 0.8799 0.2199	oz (IMP liq.) cu•in qt (IMP liq.) gal (IMP liq.)
Misc.	kg/mm kg/cm^2 Centigrade (°C)	55.997 14.2234 9/5 + 32	lb/in psi (lb/in^2) Fahrenheit (°F)

EB202001

TIGHTENING TORQUES

GENERAL TIGHTENING TORQUES

This chart specifies tightening torques for standard fasteners with a standard ISO thread pitch. Tightening torque specifications for special components or assemblies are provided for each chapter of this manual. To avoid warpage, tighten multi-fastener assemblies in a crisscross pattern and progressive stages until the specified tightening torque is reached. Unless otherwise specified, tightening torque specifications require clean, dry threads. Components should be at room temperature.



A: Width across flats

B: Thread diameter

A (nut)	B (bolt)	General tightening torques	
		Nm	m•kg
10 mm	6 mm	6	0.6
12 mm	8 mm	15	1.5
14 mm	10 mm	30	3.0
18 mm	12 mm	55	5.5
19 mm	14 mm	85	8.5
22 mm	16 mm	130	13.0

ENGINE TIGHTENING TORQUES

Item	Part name	Thread size	Q'ty	Tightening torque		Remarks
				Nm	m•kg	
Spark plug	–	M10	2	12.5	1.25	
Cylinder head cover	Bolt	M6	10	10	1.0	
Camshaft cap	Bolt	M6	12	10	1.0	
Cylinder head and cylinder body	Nut	M9	4	35	3.5	E
Cylinder head and cylinder body	Nut	M9	2	46	4.6	E
Cylinder head and cylinder body	Bolt	M6	2	10	1.0	
Cylinder head (exhaust pipe)	Stud bolt	M8	4	15	1.5	
Cylinder body	Bolt	M6	1	10	1.0	
Cylinder head (AI System)	Stud bolt	M6	4	7	0.7	
Connecting rod cap	Nut	M7	4	See NOTE*1		M
Connecting rod cap (balancer)	Nut	M9	2	60	6.0	
Cylinder (balancer)	Bolt	M10	4	58	5.8	
Generator rotor	Nut	M18	1	See NOTE*2		E
Chain tensioner	Bolt	M6	2	10	1.0	
Chain tensioner cap bolt	Bolt	M6	1	10	1.0	
Chain guide (intake side)	Bolt	M6	2	10	1.0	
Water pump housing cover	Bolt	M6	2	10	1.0	
Water pump assembly	Bolt	M6	2	10	1.0	
Coolant pipe	Bolt	M6	2	10	1.0	
Thermostat cover	Bolt	M6	2	10	1.0	
Oil pump assembly	Bolt	M6	3	10	1.0	
Oil strainer assembly	Bolt	M6	2	10	1.0	
Oil cooler assembly	Bolt	M20	1	63	6.3	
Oil filter	–	M20	1	17	1.7	
Oil delivery pipe	Bolt	M6	1	10	1.0	
Carburetor intake manifold	Bolt	M6	4	10	1.0	
Silencer assembly	Bolt	M6	2	8.5	0.85	
Air filter case assembly	Bolt	M6	3	8.5	0.85	
Exhaust pipe	Nut	M8	4	20	2.0	

TIGHTENING TORQUES

SPEC

Item	Part name	Thread size	Q'ty	Tightening torque		Remarks
				Nm	m•kg	
Muffler	Nut	M10	1	48	4.8	
Muffler protector	Bolt	M6	3	7	0.7	
A.I.System pipe	Nut	M6	4	10	1.0	
A.I.System reed valve assembly	Bolt	M6	3	10	1.0	
Air cut valve assembly	Bolt	M6	1	7	0.7	
Crankcase	Bolt	M6	13	10	1.0	
Crankcase	Bolt	M8	8	24	2.4	
Engine oil drain bolt	Bolt	M14	1	43	4.3	
Engine oil sub tank cover	Bolt	M6	7	10	1.0	
Stator coil base	Screw	M6	3	12	1.2	
Timing plug	Plug	M16	1	8	0.8	
Generator cover	Bolt	M6	19	10	1.0	
Belt drive cover	Bolt	M6	4	10	1.0	
Belt drive cover	Bolt	M8	6	24	2.4	
Plate	Bolt	M6	3	10	1.0	
Crankcase cover	Bolt	M8	2	24	2.4	
Protector cover	Bolt	M6	3	7	0.7	
Belt drive filter	Bolt	M6	2	7	0.7	
Starter clutch	Bolt	M8	3	30	3.0	
Clutch boss nut	Nut	M36	1	90	9.0	
Clutch housing assembly	Nut	M16	1	65	6.5	
Chian drive holder assembly	Bolt	M8	3	30	3.0	
Chian drive drain bolt	Bolt	M12	1	20	2.0	
Chian drive caes (outer)	Bolt	M6	18	10	1.0	
Chian drive case cover	Bolt	M6	2	7	0.7	
Stopper	Bolt	M5	8	6	0.6	
Primary sheave assembly	Nut	M20	1	160	16	
Secondary sheave spring seat	Nut	M36	1	90	9.0	
Secondary sheave assembly	Nut	M18	1	90	9.0	

TIGHTENING TORQUES

SPEC

Item	Part name	Thread size	Q'ty	Tightening torque		Remarks
				Nm	m•kg	
Primary bearing cover plate	Screw	M6	1	10	1.0	
Secondary bearing cover plate	Screw	M6	1	12	1.2	
Stator coil assembly	Bolt	M6	3	10	1.0	
Pickup coil	Bolt	M5	2	7	0.7	
Starter motor	Bolt	M6	2	10	1.0	
Thermo switch	–	M18	2	18	1.8	
Thermo unit	–	PT 1/8	1	8	0.8	
Ignitor unit	Screw	M6	2	3	0.3	

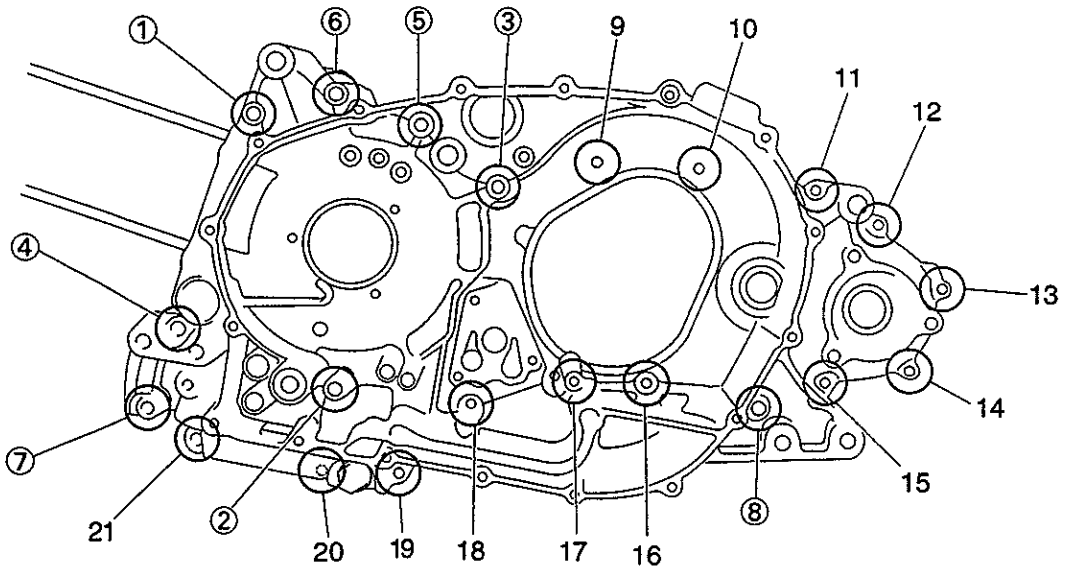
NOTE:

*1: After tightening to 16 Nm (1.6 m•kg), tighten another 90°.
*2: After tightening to 60 Nm (6,0 m•kg), tighten another 120°.

TIGHTENING TORQUES

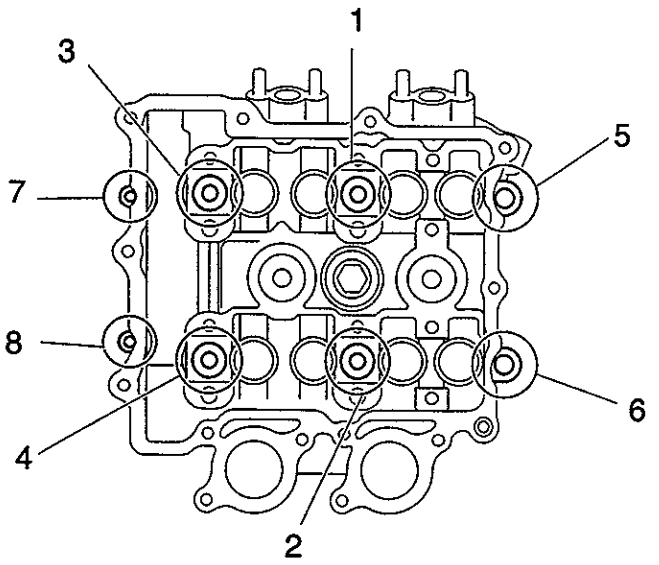
SPEC

Crankcase tightening sequence:



① ~ ⑧ M8 Bolt
9 ~ 21 M6 Bolt

Cylinder head tightening sequence:



CHASSIS TIGHTENING TORQUES

Item	Thread size	Tightening torque		Remarks
		Nm	m•kg	
Upper bracket pinch bolt	M8	30	3.0	
Steering stem nut	M22	110	11.0	
Lower ring nut	M25	19	1.9	See NOTE
Front fork cap bolt		45	4.5	
Handlebar upper holder	M8	23	2.3	
Brake hose union bolt	M10	30	3.0	
Brake master cylinder holder	M6	10	1.0	
Master cylinder reservoir cap	M4	1	0.1	
Handlebar grip end	M16	26	2.6	
Engine mounting				
Front mounting nut (upper)	M12	87	8.7	
Front mounting bolt (lower)	M10	48	4.8	
Front wheel axle shaft	M14	59	5.9	
Front wheel axle shaft pinch bolt	M8	20	2.0	
Rear wheel axle nut	M14	104	10.4	
Rear wheel axle shaft pinch bolt	M8	17	1.7	
Front brake caliper bracket	M10	27	2.7	
Front brake caliper bolt	M10	40	4.0	
Front brake disc	M6	18	1.8	◀①
Rear brake caliper bracket	M10	27	2.7	
Rear brake caliper bolt	M10	40	4.0	
Rear brake disc	M6	18	1.8	◀①
Brake caliper bleed screw	M7	6	0.6	
Swingarm and pivot shaft	M22	7	0.7	
Pivot shaft and lock nut	M22	100	10.0	
Chain drive and swingarm	M10	40	4.0	
Rear shock absorber (front)	M12	67	6.7	
Rear shock absorber (rear)	M16	52	5.2	

TIGHTENING TORQUES

SPEC

Item	Thread size	Tightening torque		Remarks
		Nm	m•kg	
Fuel tank	M6	10	1.0	
Fuel sender	M5	4	0.4	
Grab bar	M8	15	1.5	
Seat lock	M6	7	0.7	
Box	M6	10	1.0	
Cover and panel	M8	15	1.5	
Cover and panel	M6	7	0.7	
Windshield	M5	0.4	0.04	
Coolant reservoir tank	M6	4	0.4	
Mainstand bracket	M10	55	5.5	
Mainstand	M10	55	5.5	
Sidestand (bolt and frame)	M10	8	0.8	
Sidestand (bolt and nut)	M10	40	4.0	
Rear footrest	M8	23	2.3	

NOTE:

1. First, tighten the ring nut to approximately 52 Nm (5.2 m•kg) with a torque wrench, then loosen the ring nut completely.
2. Retighten the ring nut to specification.

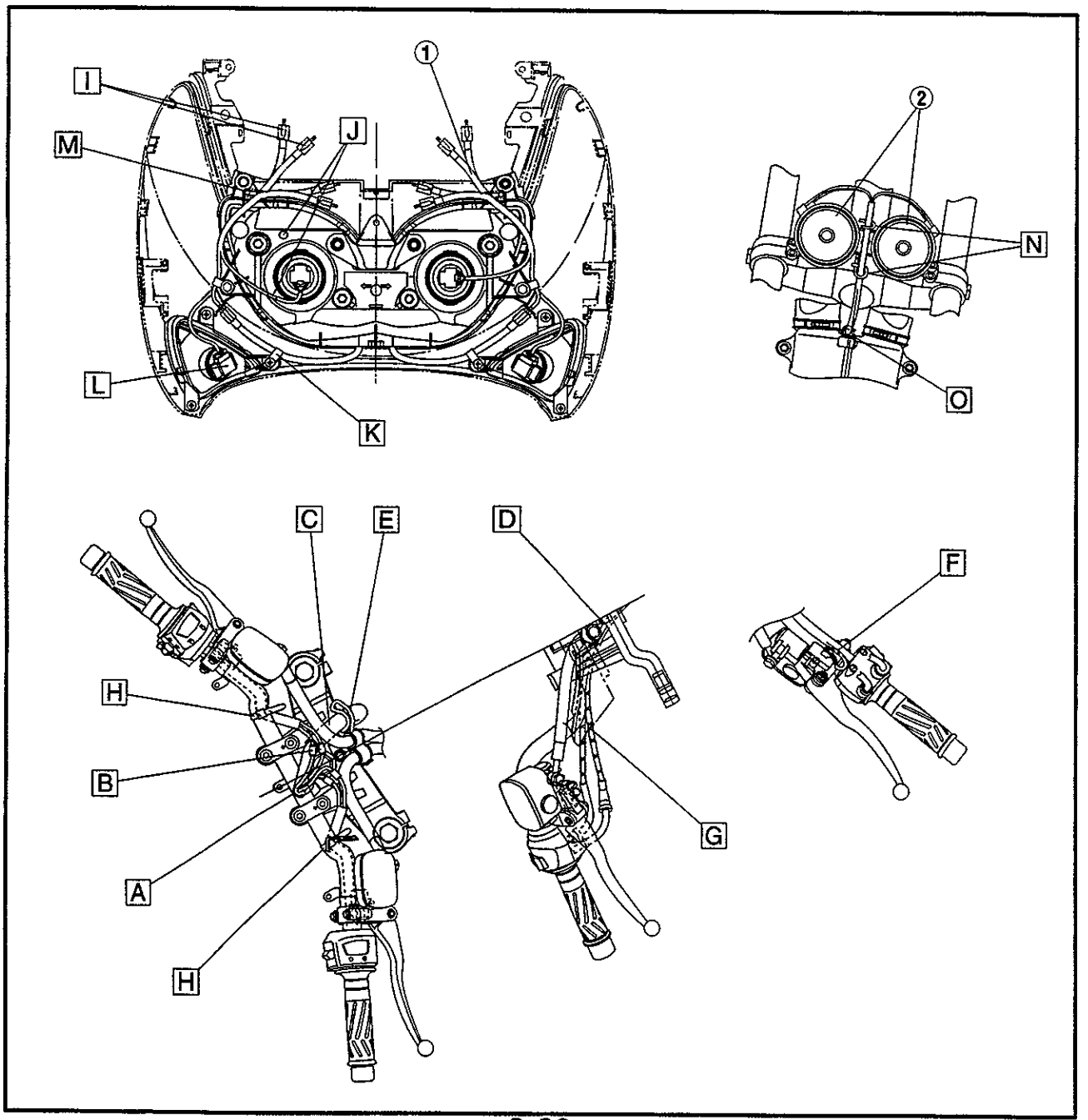
LUBRICATION POINTS AND LUBRICANT TYPES

Lubrication point	Lubricant
Oil seal lips	LS
O-rings	LS
Bearing and bushes	E
Crankshaft pins	E
Piston surfaces	E
Piston pins	E
Balancer surface	E
Connecting rod bolts and nuts	M
Crankshaft journals	E
Camshaft lobs	M
Camshaft journals	M
Camshaft cap	E
Valve stems (intake and exhaust)	M
Valve stem ends (intake and exhaust)	E
Cylinder head nut	E
Oil pump shaft	M
Oil pump rotors (inner and outer)	E
Oil pump housing	E
Oil cooler union bolt	E
Starter clutch idle gear inner surface	E
Starter clutch	E
Drive axle spline	LS
Drive sprocket	LS
Primary sheave spacer	Shell BT grease 3®
Primary sheave nut	Shell BT grease 3®
Secondary sheave nut	LS
Secondary sheave	BEL-RAY assembly lube®
Swingarm pivot shaft bearing	LS
Belt drive cover bearing	LS
Crankcase mating surface	YAMAHA bond No.1215
A.C. magneto lead	YAMAHA bond No.1215

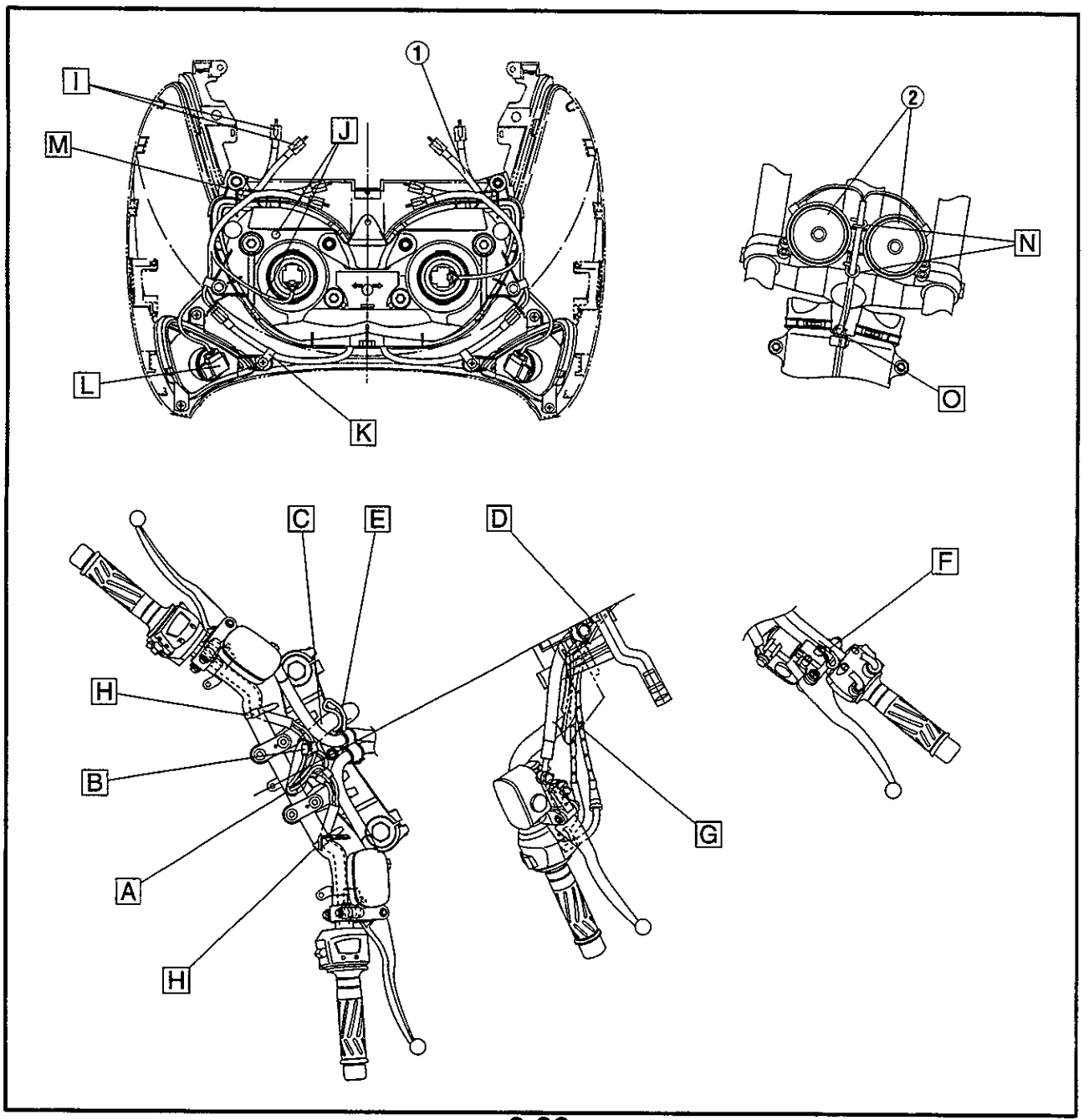
CABLE ROUTING

① Headlight lead
② Horn (H mark on the back of the horn).

[A] Attach the wireharness clamp (protector terminal) to the T stud.
[B] Install the wireharness to the top of the steering after each coupler connection.
[C] Route the wireharness between brake hose and upper bracket.
[D] Route the throttle cables between handle under cover and upper bracket.
[E] Install a wireharness guide to hold down the wireharness.
[F] Connect the brake light switch from the handlebar switch side wiring.
[G] Route the throttle cables through the hole of the handle under cover.
[H] Fasten the handlebar switch lead to the handlebar using a plastic clamp.
The fastening location is the bend area on the bottom of the handlebar.
[I] Connect the headlight sub-harness to the wireharness on top of the stay (left and right)
After making the connection, push the coupler between the front cowling and the air filter case.



[J] Connect the taped headlight lead coupler to the headlight's white marked side (left side: high beam side).
(For UK, the right side is the high beam side.)
[K] Fasten the headlight sub-harness.
[L] Connect the turn signal light.
[M] Securely fasten the wire strap to the front cowling hook to prevent it from being pulled out by the headlight assembly.
[N] Route the horn lead through the wire guide.
[O] After passing the horn lead through the clamp, crimp the clamp.

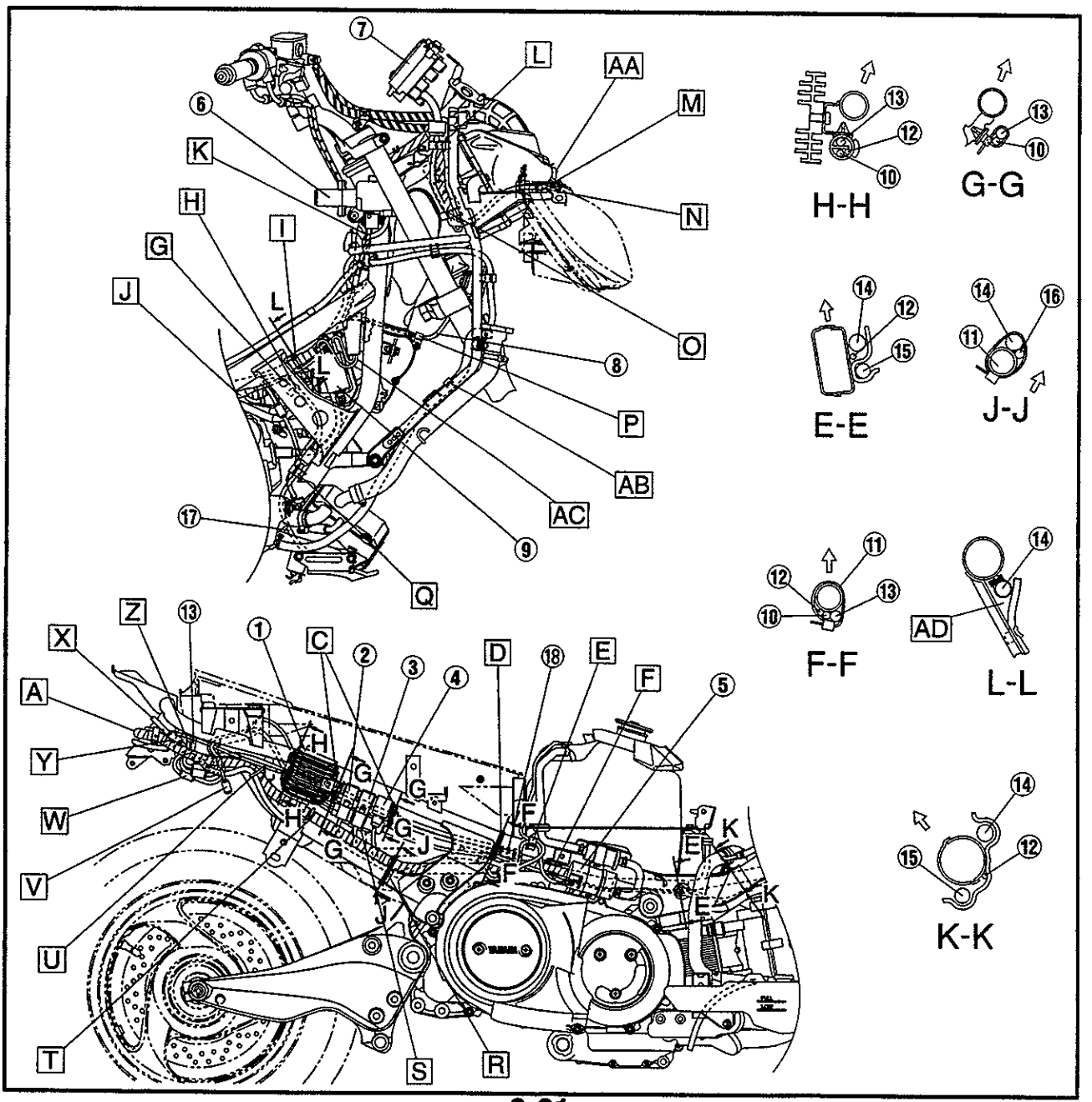


CABLE ROUTING

SPEC

① Rectifier/regulator
② Starting circuit cut-off relay
③ Pump relay
④ Flasher relay
⑤ Fuel pump
⑥ Main switch
⑦ Meter assembly
⑧ Horn lead
⑨ Ignition coil
⑩ Battery negative lead
⑪ Frame
⑫ Seat lock cable
⑬ Starter motor lead
⑭ Wireharness
⑮ Fuel hose
⑯ Sub harness
⑰ Fan motor lead
⑱ V-belt reset coupler

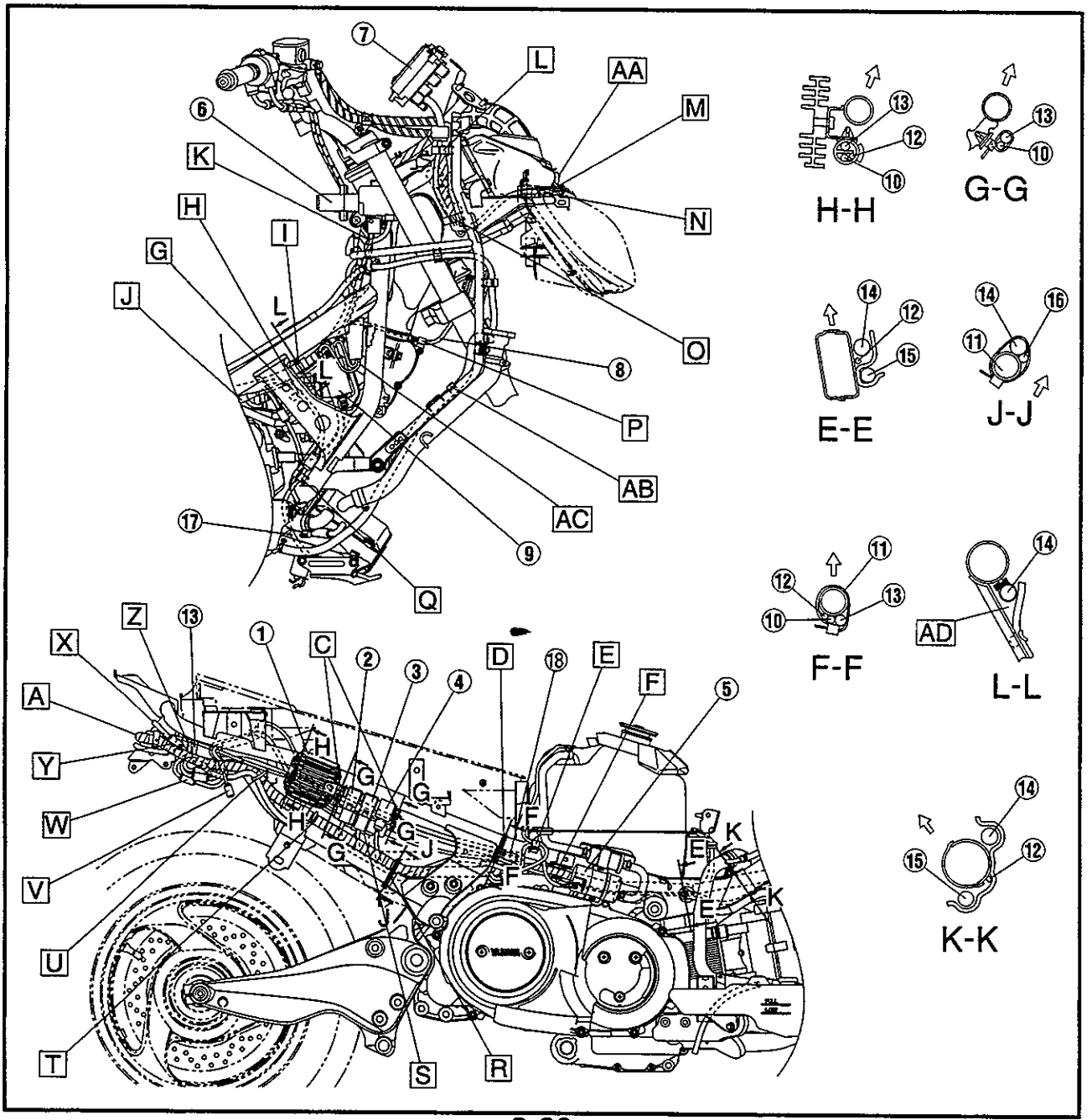
A The wireharness pass-through is change.
B Fasten the starter motor lead, battery negative lead and seat lock cable (right side) to the frame with a plastic clamp.
C Fasten the starter motor lead and battery negative lead to the frame with a clamp.



CABLE ROUTING

SPEC

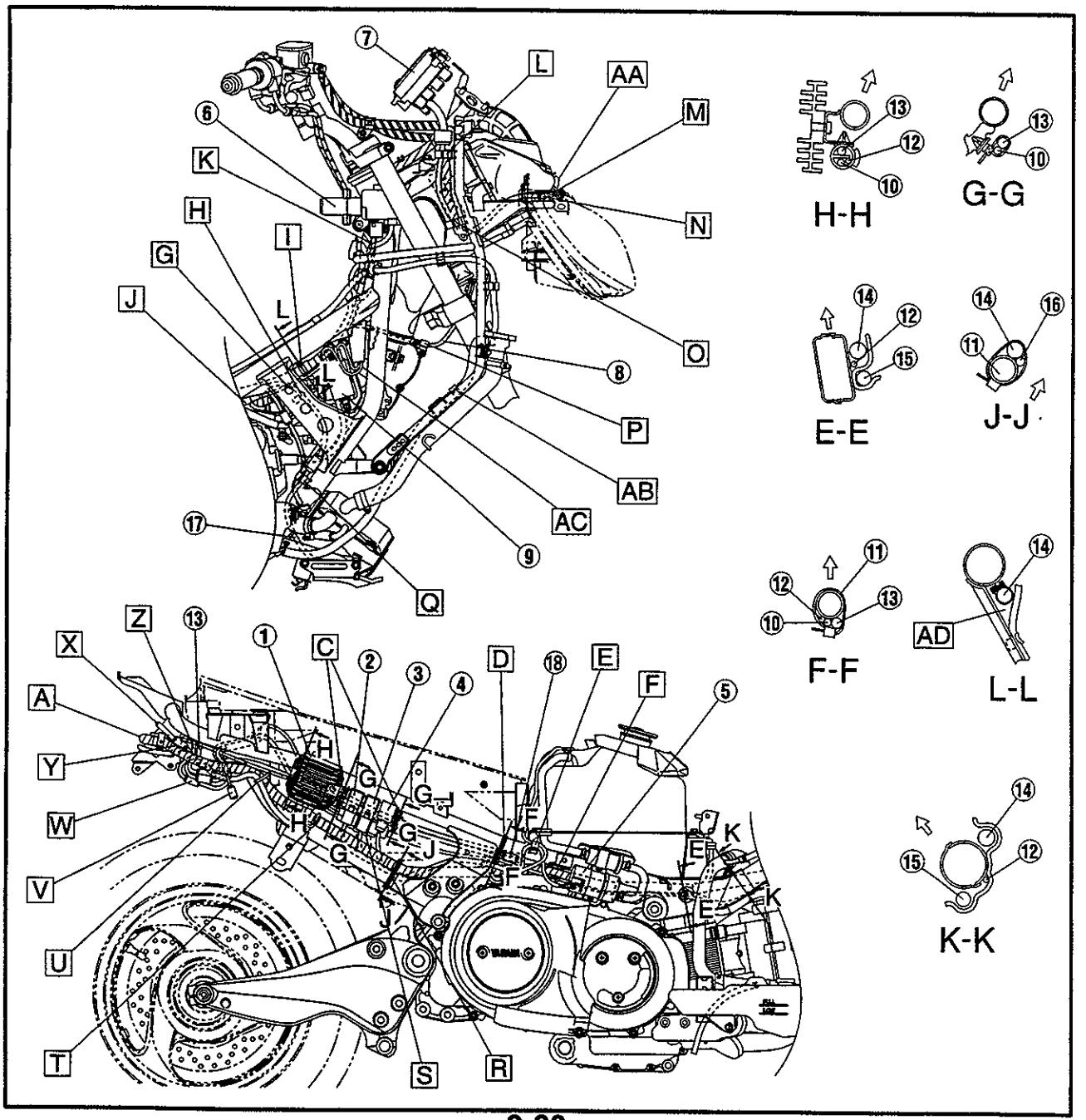
[D] Fasten the starter motor lead, battery negative lead, V-belt reset coupler, and seat lock cable to the frame with a plastic band.
Position the band clasp on the bottom of the frame and face the band end to the outside.
[E] Fasten the fuel sender lead and fuel pump lead to the frame with a plastic clamp.
[F] Place the wireharness and seat lock cable in the frame holder.
[G] Through the seat lock cable between wireharness and frame.
[H] Use the clamp on the back of the frame to hold the side stand switch lead and fan motor lead.
[I] Connect the wireharness (wire taped area) to the frame side T stud.
[J] After connecting the main switch lead, push it between the seat lock cable adjustment area and the frame.
[K] Through the main switch lead between frame and seat lock cable.
[L] After connecting the wireharness and meter lead, use a plastic clamp to connect them to stay 1.
[M] Connect to the headlight sub harness (left and right)



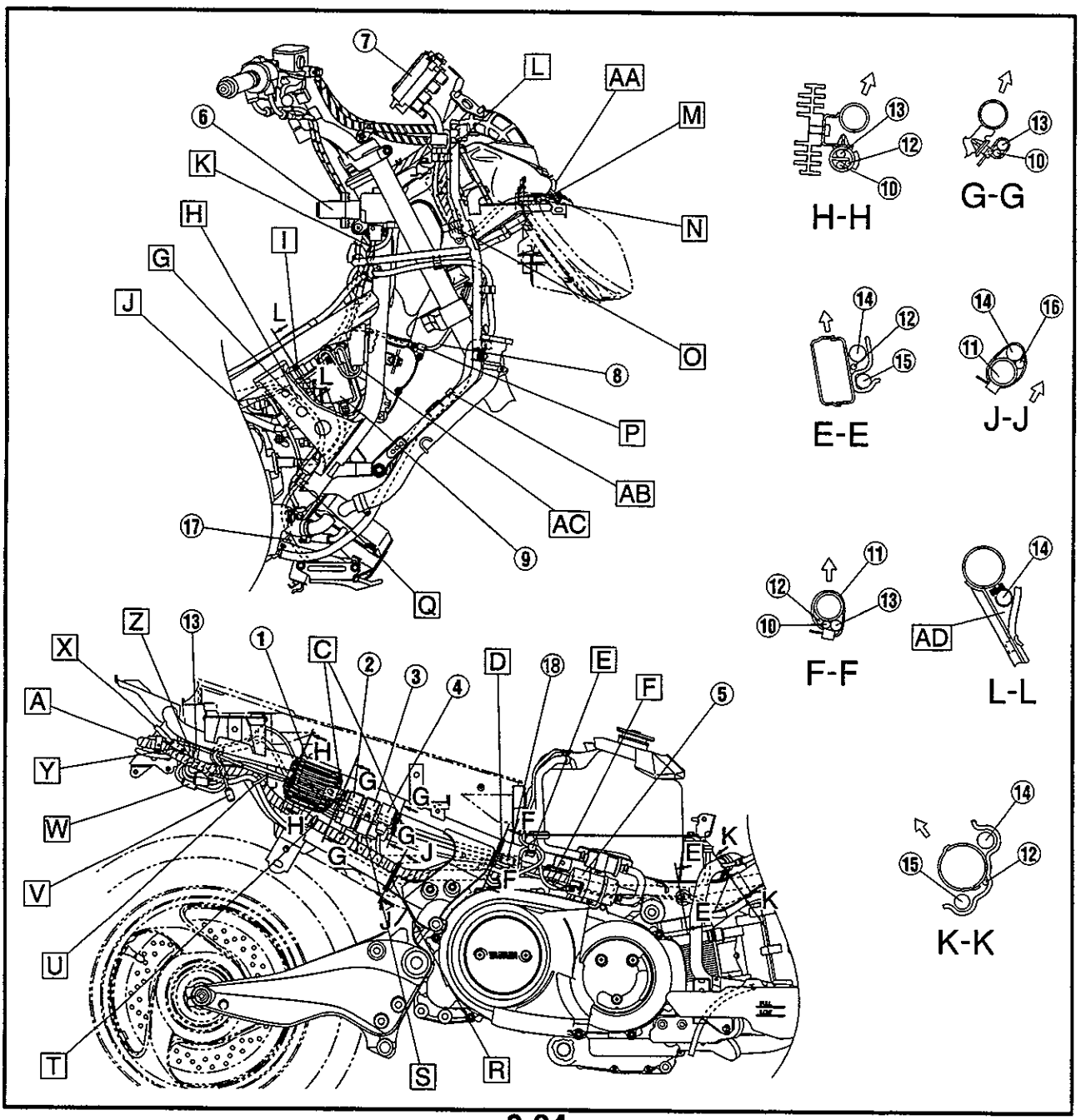
CABLE ROUTING

SPEC

[N] Fasten the headlight sub harness with a plastic clamp.
[O] Fasten the igniter lead to the stay with a plastic clamp.
[P] Fasten the horn lead with a clamp.
[Q] Fasten the fan motor lead, sidestand switch lead, and thermo switch lead to the frame with a plastic clamp.
[R] Use a plastic band to connect the wireharness and relay lead to the frame.
Position the band clasp on the bottom of the frame and face the band end to the outside.
[S] Insert the seat lock cable and the cylinder mounting rubber into the frame stay.
[T] Through the wireharness to the frame wireharness holder.
[U] Route the wireharness and regulator lead through the frame wire holder.
Place the regulator lead under the wireharness.
[V] The V-belt reset coupler position is change.
[W] After making the connections, push the couplers into the space inside the frame above the mudguard.
[X] To the tail/brake light.
[Y] Insert the tail/brake light cuplers between the wireharness and the seat lock cable (left side).
[Z] To the starter relay.



AA After connecting the left headlight sub-harness and wireharness (by matching the coupler colors), fold back the lead facing to the right and insert it into the air filter case rib.
AB Fasten the coolant reservoir hose to the stay with a plastic clamp.
AC Route the ignition coil lead through the inside of the bracket.
AD Route the seat lock cable through the frame bracket side.

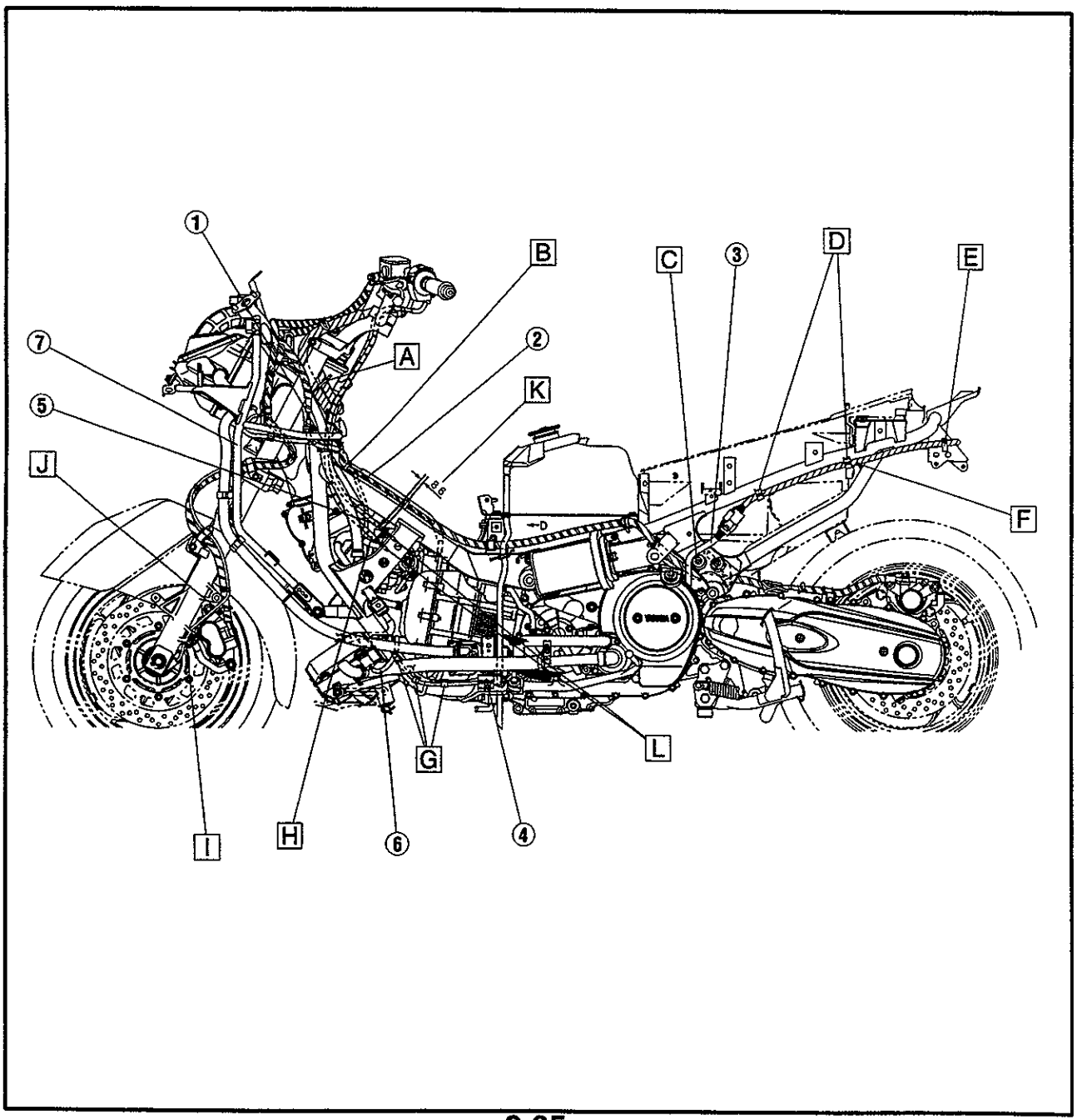


CABLE ROUTING

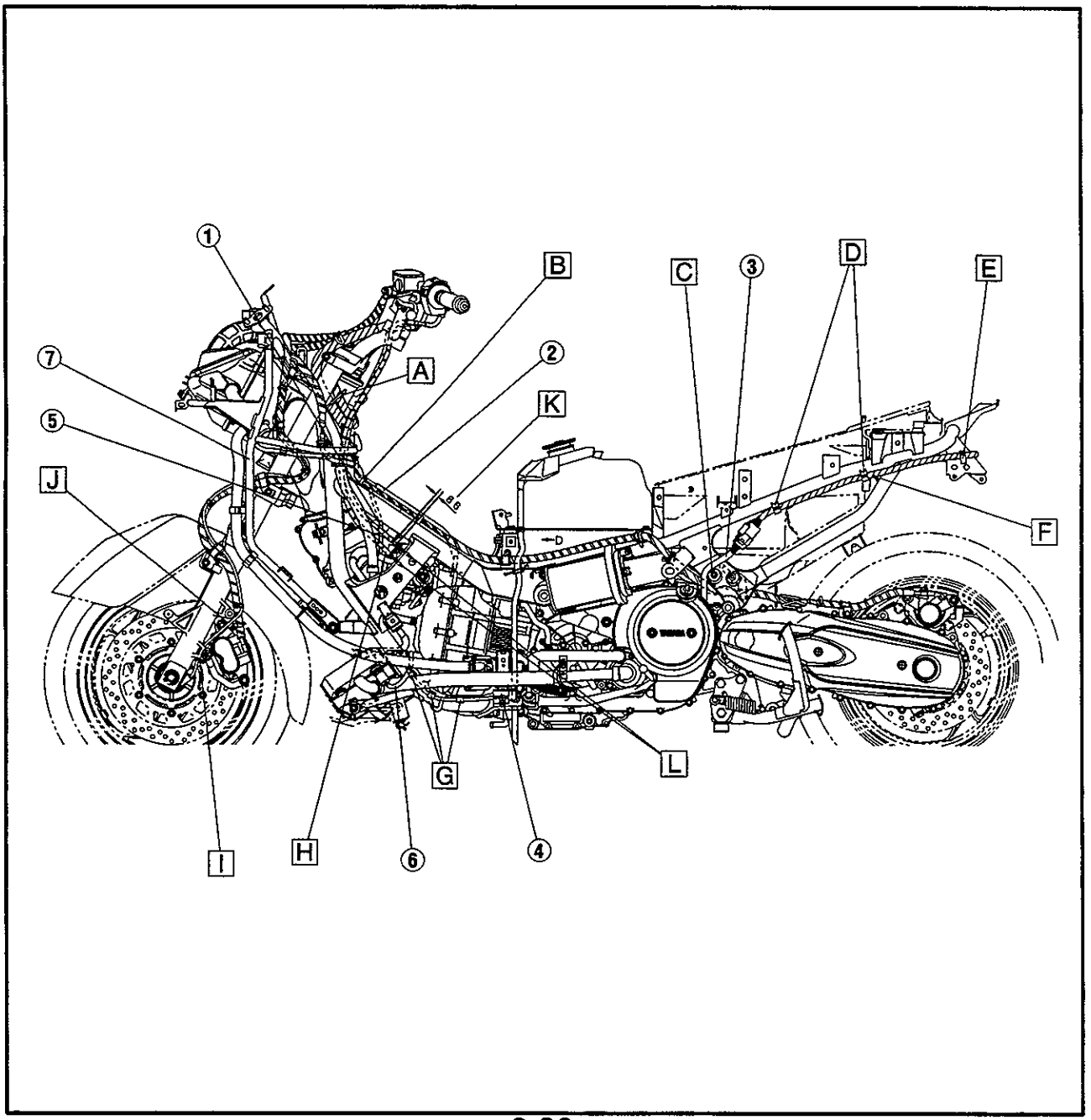
SPEC

① Air vent hose
② Vacuum hose
③ A.C. magneto lead
④ Sidestand switch
⑤ Fan motor lead
⑥ Thermo switch lead
⑦ Stay 1

[A] Route the wireharness through the frame guide. At this time, place the protector (for the handle cover inner side) on the bottom side.
[B] Fasten the rear brake hose and vacuum hose with a plastic clamp.
The fastening position is 0 to 5 m from edge of the frame bracket.
[C] Pass the wireharness by the outside of the rear footrest mounting boss.
(When mounting the rear footrest, do not catch or pinch the A.C. magneto lead in the bracket.)



[D] Fasten the wireharness to the frame with a plastic clamp.
[E] Fasten the wireharness to the frame with a plastic clamp.
[F] Pass the box light lead by the front of the frame back stay pipe.
[G] Fasten the sidestand switch lead to the frame with a plastic clamp.
[H] When adjusting the throttle cable, completely tighten the hut on the throttle cable return side.
[I] Through the speed sensor lead to the lead holder.
[J] Through the speed sensor lead between front brake caliper and front brake caliper mounting bolt.
[K] Use this as a reference when adjusting the throttle cable.
[L] After adjusting the throttle cables, make sure the rubber cap is insert connectly.

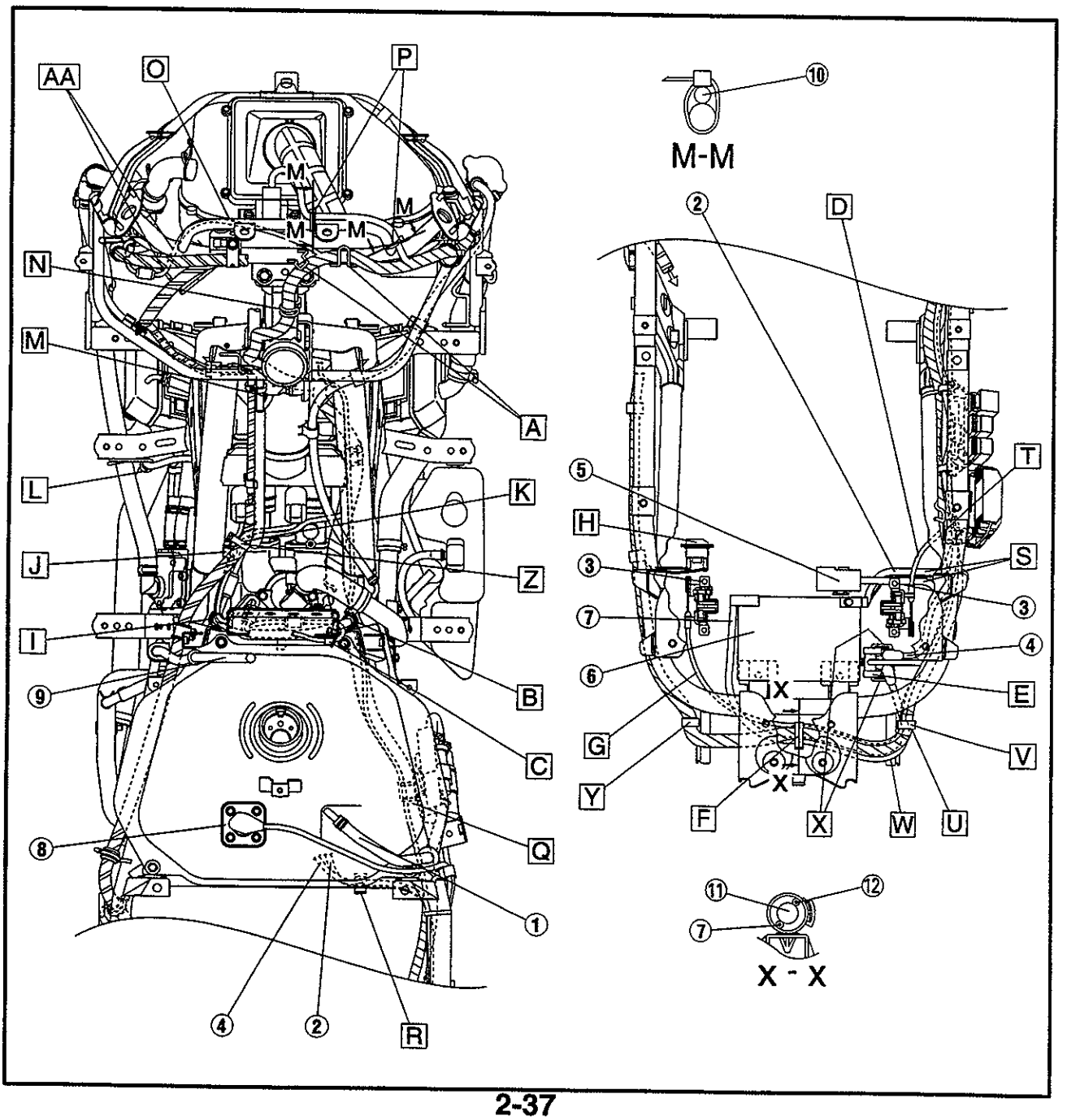


CABLE ROUTING

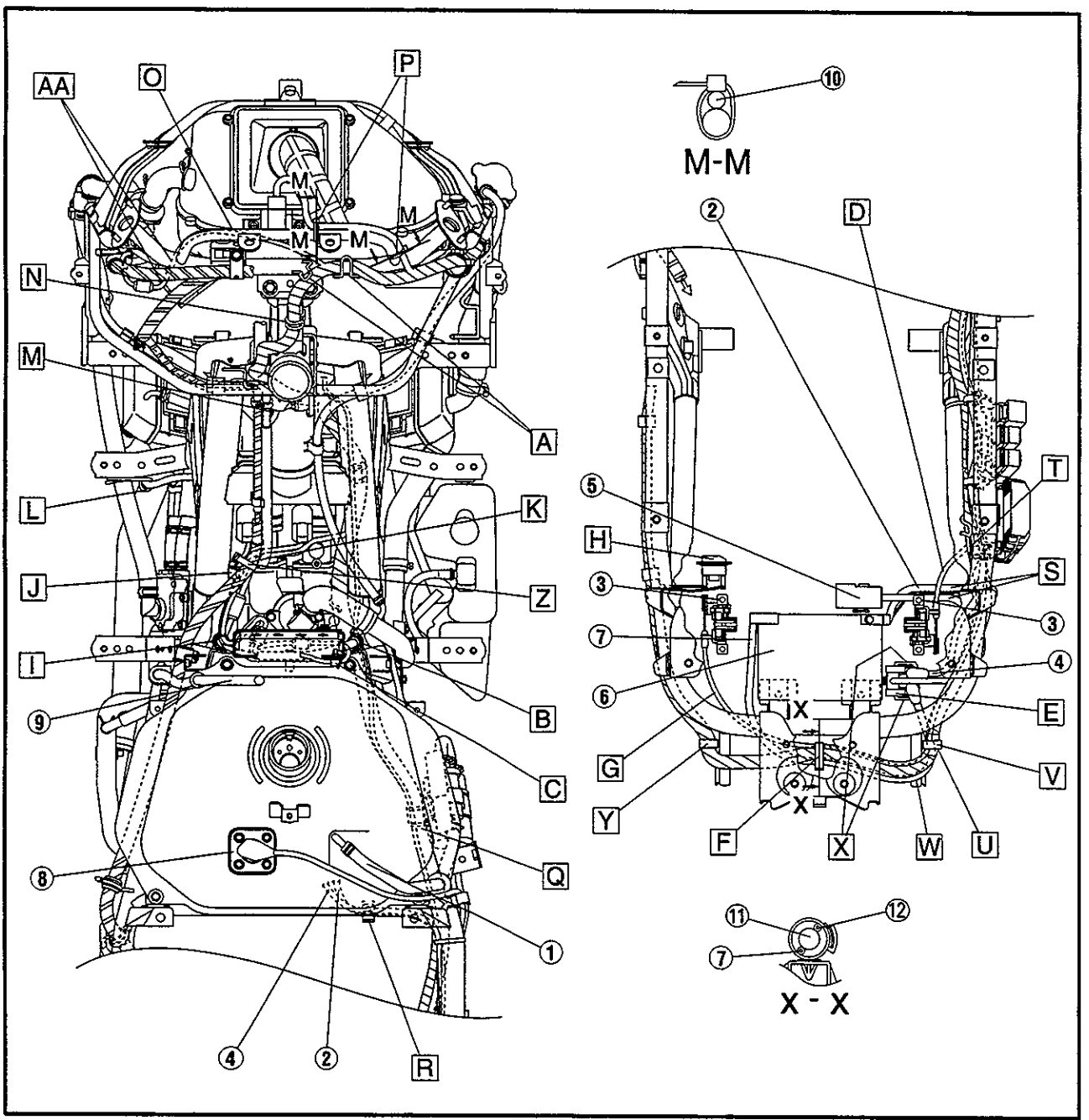
SPEC

① Fuel hose
② Battery negative lead
③ Seat lock
④ Starter motor lead
⑤ Fuse box
⑥ Battery
⑦ Battery positive lead
⑧ Fuel sender
⑨ Breather hose
⑩ Lean angle cut-off switch lead
⑪ Wireharness
⑫ Seat lock cable

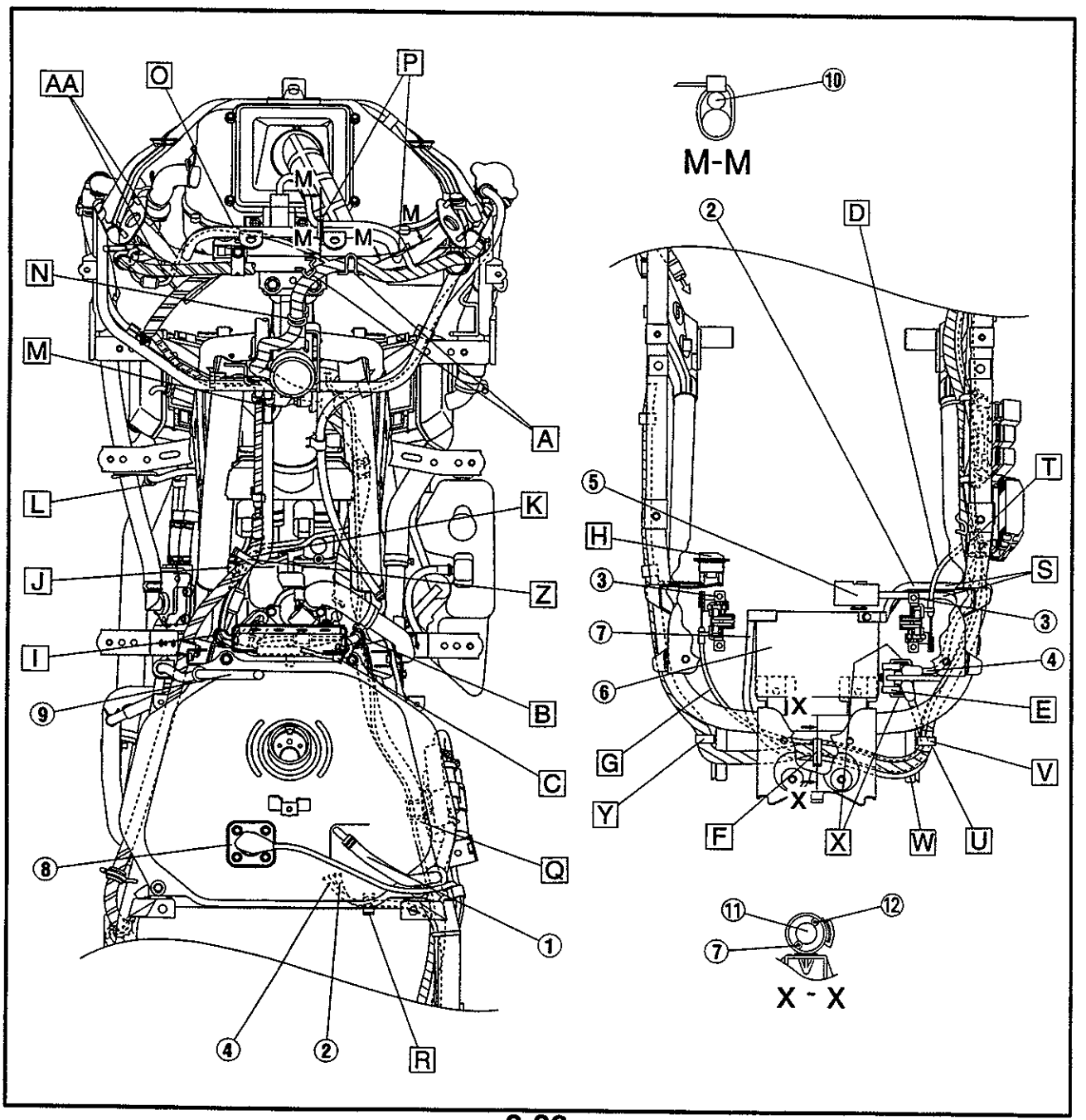
[A] Route the wireharness against the stay wire guide.
[B] Fasten the wireharness branch wiring to the frame with a plastic clamp.
[C] Fasten the wireharness to the frame with a plastic clamp.
[D] Connect the black wire on the outside of the seat lock cable to the right seat lock.
[E] Install the starter relay to the mad guard.
[F] Fasten the wireharness, battery positive lead and seat lock cable to the mad guard with a clamp.
[G] Connect the gray wire on the outside of the seat lock cable to the left seat lock.



[H] Install the box light to the box 1.
[I] Fasten the auto choke leads (left and right) and throttle position sensor lead to the frame with a clamp.
Leave some slack in the lead wires so that when the vacuum hose is install it does not press against them.
[J] Fasten the auto choke leads (left and right) to the frame with a plastic clamp.
[K] Pass the auto choke lead (right side) and throttle position sensor lead by the front bottom side of the vacuum hose.
[L] Route the thermo switch lead through the guide.
[M] Insert the air vent hose through the hole on the left side of the frame bracket.
[N] Route the wireharness through the guide.
[O] Place the speed sensor lead between the ribs of the air filter case.
[P] Fasten the lean angle cut-off switch lead to the stay (2 locations). Face the end of the band downward.
[Q] Hang the wireharness and seat lock cable on the wire holder on the back of the fuel pump attachment stay.
[R] Fasten the battery negative lead and the starter motor lead to the frame.
[S] Route the battery negative lead and the fuse box lead from the box opening to the bottom of the cross pipe.
[T] Pass the black seat lock cable beneath the battery negative lead and starter motor lead and out to the inside of the frame.



[U] Align the plastic clamp with the white tape on the wireharness and fasten the wireharness to the frame.
[V] Fasten the wireharness to the seat lock cable.
[W] Pass the wireharnesses past the outside of the frame bracket.
[X] Apply silicone when inserting the starter relay.
[Y] Fasten the wireharness to the frame with a plastic clamp.
[Z] Use a plastic band to hold the auto choke leads (left and right), throttle position sensor lead, and rear brake hose in a loose bandle. (The band should be loose enough so that it can be turned.) Pull the band end to the bottom.
[AA] Pass the speed sensor lead under the stay and cross pipe and then over the brake hose guide.

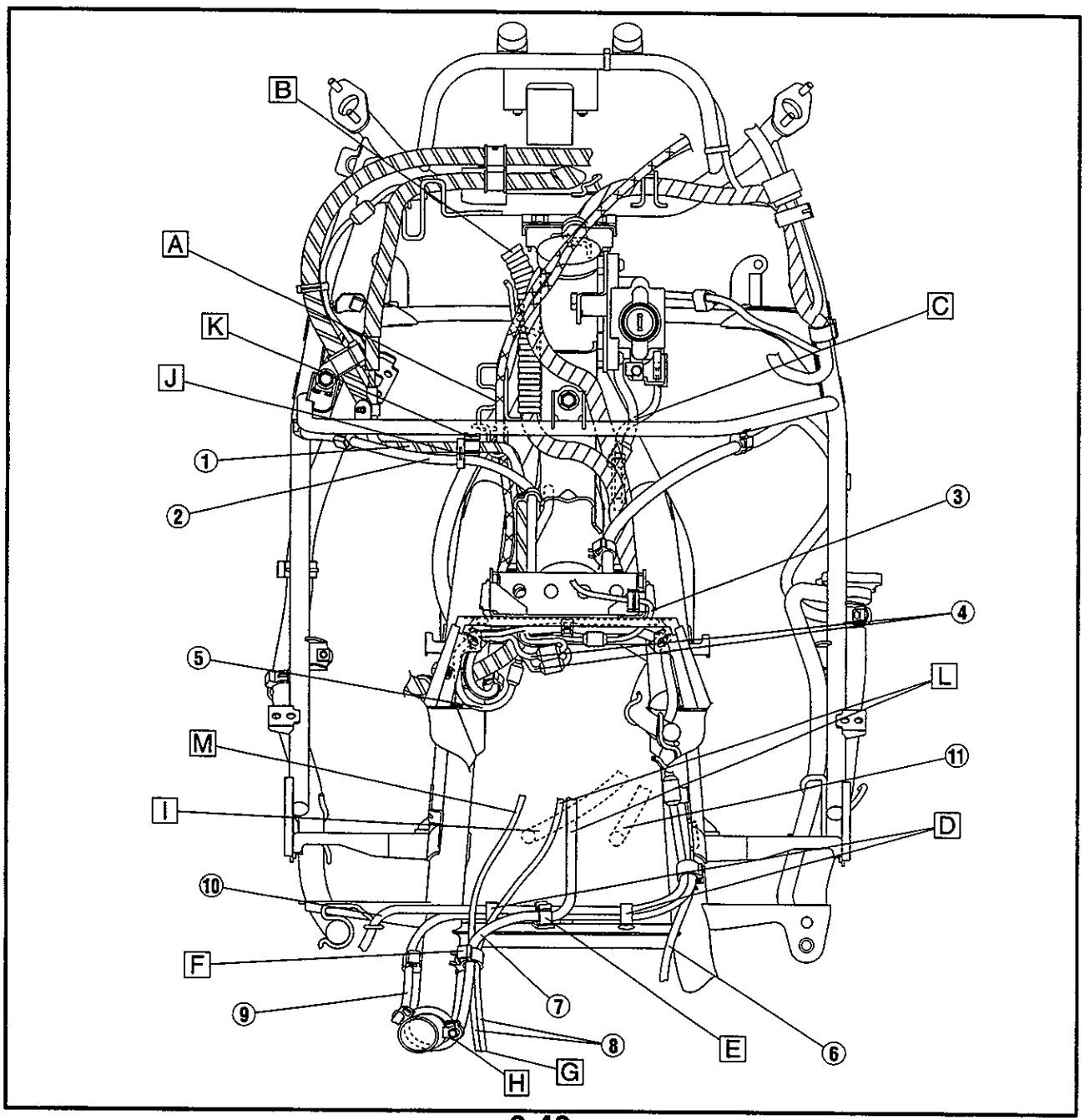


CABLE ROUTING

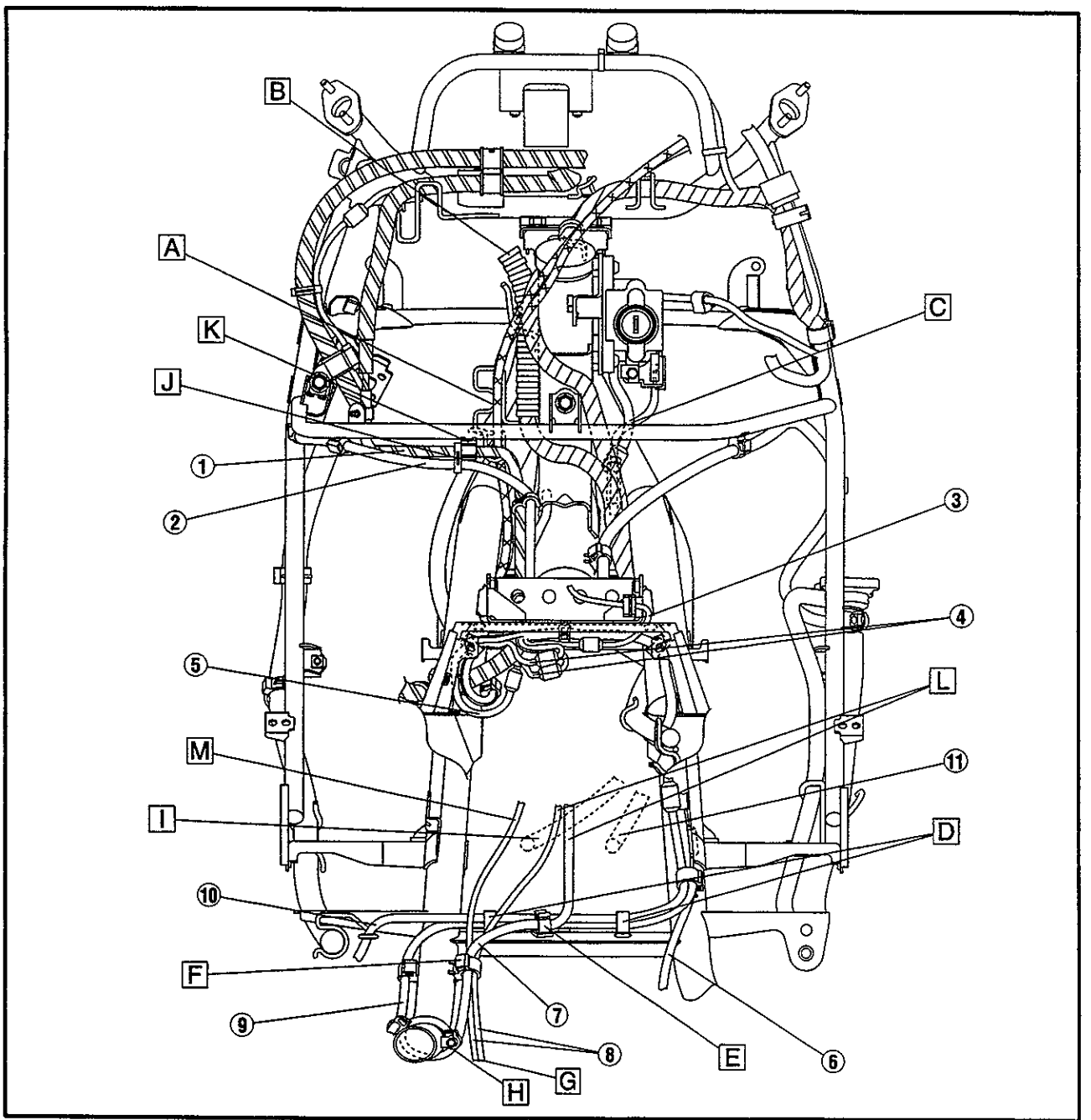
SPEC

① Vacuum hose
② Rear brake hose
③ Switch assembly lead
④ Auto choke lead
⑤ Throttle position sensor lead
⑥ Fan motor lead
⑦ Air vent hose
⑧ Drain hoses
⑨ Sidestand switch lead
⑩ Thermo switch lead
⑪ High tension code

[A] Route the throttle cable through the cable holder.
[B] into the handle cover.
[C] Route the main switch lead through over the seat lock cable.
[D] Fasten the sidestand switch lead and thermo switch lead to the frame with a plastic clamp.
[E] Fasten the carburetor air vent hose to the frame with a plastic clamp.
[F] Fasten the carburetor air vent hose and drain hoses (2 hoses) to the frame.
[G] Drop the carburetor drain hose.



[H] Fasten the rear end of the carburetor air vent hose to the frame with a plastic clamp. (The distance from the end of clamp to the frame must range from 0 to 5 mm.)
[I] Bundle the auto choke leads (left and right) and the throttle position sensor lead with a plastic clamp.
[J] Fasten the rear brake hose and vacuum hose with a plastic clamp.
[K] Faster the rear brake hose to the stay 1 with a plastic clamp.
[L] Pass the right carburetor drain hose and air vent hose between the right and left high tension cables.
[M] Route the left carburetor drain hose through the outside of the left high tension cable.



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PERIODIC CHECKS AND ADJUSTMENTS

INTRODUCTION

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

PERIODIC MAINTENANCE AND LUBRICATION INTERVALS

NO.		ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (×1,000 km)					ANNUAL CHECK
				1	10	20	30	40	
1	*	Fuel line (See page 3-29)	• Check fuel hoses and vacuum hose for cracks or damage		✓	✓	✓	✓	✓
2	*	Fuel filter (See page 3-29)	• Check condition.			✓		✓	
3		Spark plugs (See page 3-18)	• Check condition • Clean and regap.		✓		✓		
			• Replace			✓		✓	
4	*	Valves (See page 3-8)	• Check valve clearance • Adjust	Every 40,000 km					
5		Air filter element (See page 3-27)	• Clean.		✓		✓		
			• Replace			✓		✓	
6	*	V-belt case air filter elements (See page 3-28)	• Clean		✓		✓		
			• Replace			✓		✓	
7	*	Front brake (See page 3-36) (See page 3-37)	• Check operation, fluid level and vehicle for fluid leakage.	✓	✓	✓	✓	✓	✓
			• Replace brake pads	Whenever worn to the limit					
8	*	Rear brake (See page 3-36) (See page 3-37)	• Check operation, fluid level and vehicle for fluid leakage	✓	✓	✓	✓	✓	✓
			• Replace brake pads.	Whenever worn to the limit					
9	*	Brake hose (See page 3-37)	• Check for cracks or damage		✓	✓	✓	✓	✓
			• Replace	Every 4 years					
10	*	Wheels (See page 3-47)	• Check runout and for damage		✓	✓	✓	✓	
11	*	Tires (See page 3-45)	• Check tread depth and for damage • Replace if necessary. • Check air pressure • Correct if necessary		✓	✓	✓	✓	
12	*	Wheel bearings (See page 4-4)	• Check bearing for looseness or damage		✓	✓	✓	✓	
13	*	Steering bearings (See page 3-40)	• Check bearing play and steering for roughness	✓	✓	✓	✓	✓	
			• Lubricate with lithium-soap-based grease.	Every 20,000 km					
14	*	Chassis fasteners (See page 2-21)	• Make sure that all nuts, bolts and screws are properly tightened		✓	✓	✓	✓	✓
15		Sidestand/centerstand (See page 3-48)	• Check operation • Lubricate.		✓	✓	✓	✓	✓
16	*	Sidestand switch (See page 8-9)	• Check operation	✓	✓	✓	✓	✓	✓
17	*	Front fork (See page 3-43)	• Check operation and for oil leakage		✓	✓	✓	✓	
18	*	Rear shock absorber assembly (See page 3-49)	• Check operation and shock absorber for oil leakage		✓	✓	✓	✓	
			• Lubricate the pivoting points with lithium-soap-based grease.			✓		✓	
19	*	Carburetors (See page 3-15)	• Adjust engine idling speed and synchronization	✓	✓	✓	✓	✓	✓

PERIODIC MAINTENANCE AND LUBRICATION INTERVALS

CHK / ADJ

NO.		ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (×1,000 km)					ANNUAL CHECK
				1	10	20	30	40	
20		**Engine oil (See page 3-23)**	• Change	✓	4,000 km after initial 1,000 km				
				When the oil change indicator light comes on (every 5,000 km)					
21		**Engine oil filter cartridge (See page 3-23)**	• Repalce.	✓		✓		✓	
22	*	**Cooling system (See page 3-32)**	• Check coolant level and vehicle for coolant leakage		✓	✓	✓	✓	✓
			• Change.	Every 3 years					
23		**Chain drive oil (See page 3-39) (See page 3-40)**	• Check vehicle for oil leakage. • Change		✓	✓	✓	✓	
24	*	**V-belt (See page 5-48)**	• Replace.	When the V-Belt replacement indication light comes on (every 20,000 km)					
25	*	**Front and rear brake switches (See page 8-9)**	• Check operation	✓	✓	✓	✓	✓	✓
26		**Moving parts and cables (See page 3-48)**	• Lubricate.		✓	✓	✓	✓	✓
27	*	**Lights, signals and switches (See page 3-57) (See page 3-58)**	• Check operation • Adjust headlight beam.	✓	✓	✓	✓	✓	✓

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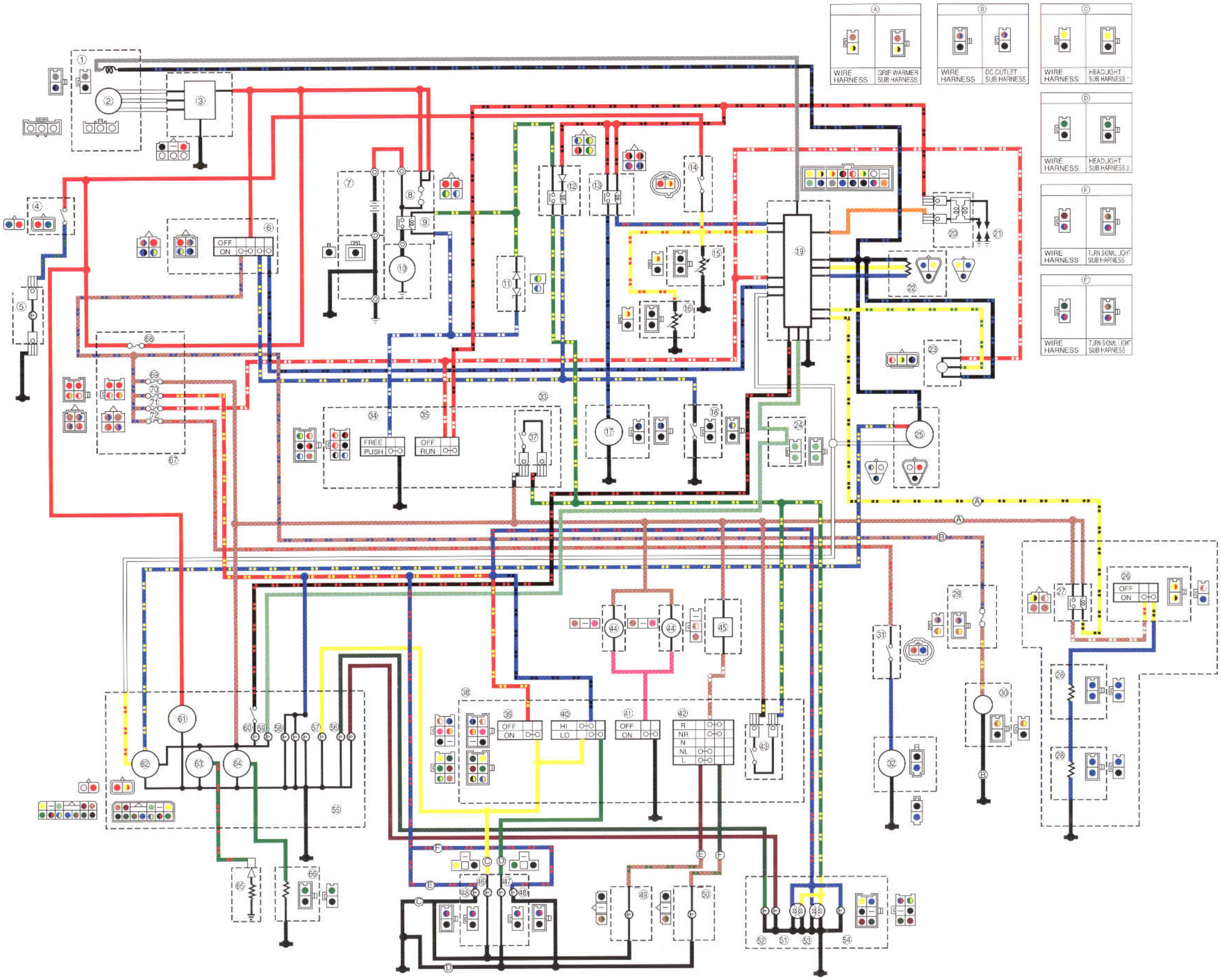
NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
  - Regularly check and, if necessary, correct the brake fluid level.
  - Every two years replace the internal components of the brake master cylinder and caliper, and change the brake fluid.
  - Replace the brake hoses every four years and if cracked or damaged.

XP500 (N) WIRING DIAGRAM (for OCE)

① Pickup coil
② A.C. magneto
③ Rectifier/regulator
④ Box light switch
⑤ Box light
⑥ Main switch
⑦ Battery
⑧ Main fuse
⑨ Starter relay
⑩ Starter motor
⑪ Diode
⑫ Starting circuit cut-off relay
⑬ Fuel pump relay
⑭ Thermo switch (Auto choke)
⑮ Auto choke 1
⑯ Auto choke 2
⑰ Fuel pump
⑱ Sidestand switch
⑲ Igniter unit
⑳ Ignition coil
㉑ Spark plug
㉒ Throttle position sensor
㉓ Lean angle cut-off switch
㉔ Reset coupler
㉕ Speed sensor
㉖ Grip warmer switch (OPTION)
㉗ Grip warmer relay (OPTION)
㉘ Grip warmer (OPTION)
㉙ DC outlet fuse
㉚ DC outlet
㉛ Thermo switch (Fan)
㉜ Radiator fan motor
㉝ Right handlebar switch
㉞ Start switch
㉟ Engine stop switch
㊲ Front brake light switch
㊳ Left handlebar switch
㊴ Pass switch
㊵ Dimmer switch
㊶ Horn switch
㊷ Turn signal switch
㊸ Rear brake light switch
㊹ Horn
㊺ Flasher relay
㊻ Headlight (Hi)
㊼ Headlight (Low)
㊽ Auxiliary light
㊾ Front turn signal light (Left)
㊿ Front turn signal light (Right)
(51) Rear turn signal light (Left)
(52) Rear turn signal light (Right)
(53) Tail / brake light
(54) License plate light
(55) Meter assembly
(56) Turn signal indicator light
(57) Hi beam indicator light
(58) Meter light
(59) V-belt indicator light
(60) Engine oil change indicator light
(61) Clock
(62) Speedometer
(63) Water temperature gauge
(64) Fuel gauge
(65) Thermo unit (Water temperature)
(66) Fuel level sender
(67) Fuse box
(68) Backup fuse
(69) Signal fuse
(70) Headlight fuse
(71) Ignition fuse
(72) Radiator fan fuse

XP500(N) 2001 (for OCE)
WIRING DIAGRAM



COLOR CODE

Black	Brown/Green
Brown	Brown/Blue
Chocolate	Brown/Red
Dark green	Brown/Yellow
Green	Brown/White
Gray	Green/Red
Blue	Green/Yellow
Light green	Blue/Black
Orange	Blue/Green
Pink	Blue/Red
Red	Blue/Yellow
Yellow	Blue/White
White	Red/Black
Black/Blue	Red/Yellow
Black/Red	Red/White
Black/Yellow	Yellow/Black
Black/White	Yellow/Red

YAMAHA

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