# YAMAHA

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4EA-SE1

# SERVICE INFORMATION

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## **FOREWORD**

This Service Information has been prepared to introduce new service and data for the XJ600SD. For complete service information procedures it is necessary to use this publication together with the following microfiche service manual.

XJ600SD/XJ600SDC SERVICE MANUAL: 4EA-ME1



XJ600SD
SERVICE INFORMATION
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#### SJOSMYS GRASTSU**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.

 $\triangle$ 

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

**WARNING** 

Failure to follow WARNING instructions <u>could result in severe injury or death</u> 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 cleaer.

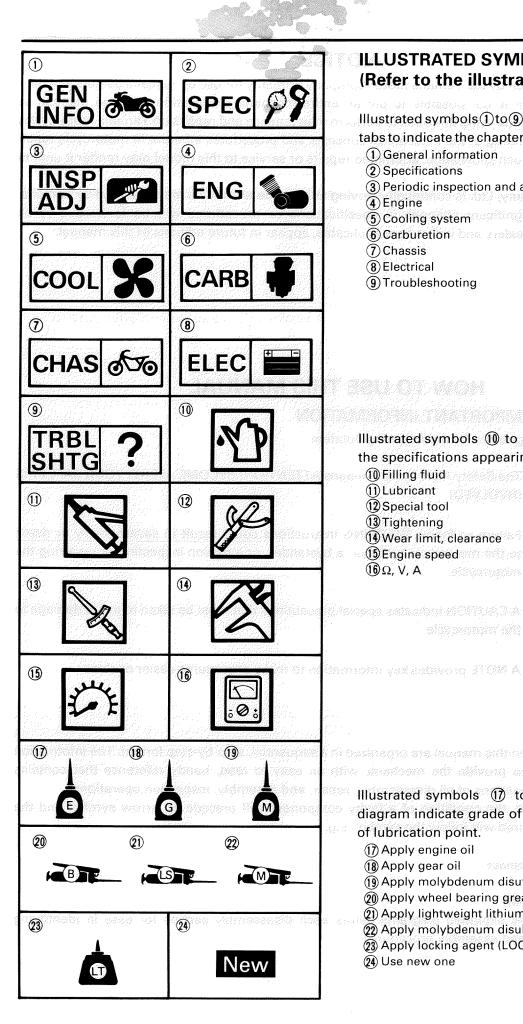
#### MANUAL FORMAT

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.



#### **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 and an artifaction and artifaction are artifaction and artifaction and artifaction are artifaction are artifaction and artifaction are artifaction are artifaction and artifaction are artifacti
- (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

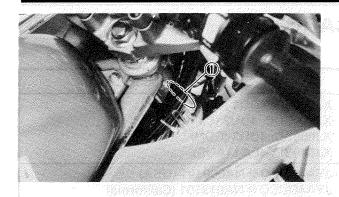
Illustrated symbols (17) to (29) in the exploded diagram indicate grade of lubricant and location of lubrication point.

- (17) Apply engine oil
- (18) Apply gear oil
- (19) Apply molybdenum disufide 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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**XJ600SD WIRING DIAGRAM** 



YB211001

# GENERAL INFORMATION

# MOTORCYCLE IDENTIFICATION VEHICLE IDENTIFICATION NUMBER

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

Starting serial number:

JYA4DUEO \* NA000101 (USA)
JYA4DUCO \* NA013101 (California)
JYA4DUNO \* NA012101 (CDN)
JYA4EATO \* NA000101 (AUS)

#### 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**

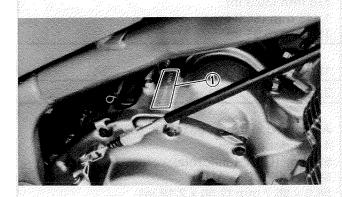
The engine serial number ① is stamped into the right side the engine.

#### Starting serial number:

XJ600SD .....4DU-000101 (USA) XJ600SDC ....4DU-013101 (California) XJ600SD .....4DU-012101 (CDN) XJ600SD .....4EA-000101 (AUS)

#### NOTE: \_

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



en gelfelik franskrike 1877: Island delfelik 1872 1880: Island franskrike 1882: Island delfelik 1882

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- washiritan

# GENERAL SPECIFICATIONS



## **SPECIFICATIONS**

#### **GENERAL SPECIFICATIONS**

Model	XJ600SD/XJ600SDC
Model code number:	XJ600SD: 4DU1 (USA) XJ600SDC: 4DU2 (California) XJ600SD: 4DU3 (CDN) XJ600SD: 4EA1 (AUS)
Vehicle identification number:	JYA4DUEO * NA000101 (USA) JYA4DUCO * NA013101 (California) JYA4DUNO * NA012101 (CDN) JYA4EATO * NA000101 (AUS)
Engine starting number:	4DU-000101 (USA) 4DU-013101 (California) 4DU-012101 (CDN) 4EA-000101 (AUS)
Dimensions: Overall length Overall width Overall height Seat height Wheelbase Minimum ground clearance	2,095 mm (82.5 in) 750 mm (29.5 in) 1,170 mm (46.1 in) 770 mm (30.3 in) 1,445 mm (56.9 in) 150 mm (5.91 in)
Basic weight: With oil and full fuel tank	197 kg (434 lb)
Minimum turning radius:	2,600 mm (102 in)
Engine: Engine type Cylinder arrangement Displacement  Bore × stroke Compression ratio Compression pressure Starting system	Air cooled 4-stroke, gasoline, DOHC 4-cylinder parallel 599 cm³ (USA, California) 598.8 cm³ (CDN, AUS) 58.5 x 55.7 mm (2.30 x 2.19 in) 10.0: 1 1,100 kPa (11.0 kg/cm², 156 psi) Electric starter
Lubrication system:	Wet sump
Engine oil type or grade:  30 40 50 60°F  0 5 10 15°C	Yamalube 4 (20W40) or SAE 20W40 type SE motor oil Yamalube 4 (10W30) or SAE 10W30 type SE motor oil
Engine oil capacity: Periodic oil change With oil filter replacement Total amount	2.2 L (1.9 Imp qt, 2.3 US qt) 2.5 L (2.2 Imp qt, 2.6 US qt) 2.9 L (2.6 Imp qt, 3.1 US qt)
Air filter:	Dry type element

## SERVE A SERVE & GENERAL SPECIFICATIONS



ides <b>Model</b> sees	XJ600SD/XJ600SDC		
Fuel: Type  AND	Unleaded fuel (USA, California)  Regular unleaded gasoline (CDN)  Unleaded fuel only (AUS)  17.0 L (3.74 Imp gal, 4.49 US gal)		
Carburetor: Type × quantity Manufacturer	BDS 26 x 4 (USA, California) BDST28 x 4 (CDN, AUS) MIKUNI		
Spark plug: Type/Manufacture  Gap	for USA, California CR7E (NGK), U22ESR-N (N.D.) CR8E (NGK), U24ESR-N (N.D.) for CDN, AUS CR8E (NGK), U24 ESR-N (N.D.) 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 1st 2nd  3rd 4th 5th 6th  Chassis: Eramo type	Spur gear 23/24 x 65/28 (2.224) (USA, California) 23/24 x 65/28 (2.225) (CDN, AUS) Chain drive 48/16 (3,000) Constant mesh 6-speed Left foot operation 41/15 (2.733) 32/18 (1.777) (USA, California) 32/18 (1.778) (CDN, AUS) 28/21 (1.333) 29/27 (1.074) 21/23 (0.913) 23/28 (0.821)		
Frame type Caster angle	Double cradle 25°	A GEOGRAPH A GEOGRAPH A GEOGRAPH A GEOGRAPH A GEOGRAPH A GEOGRAPH	
Trail of the second of the sec	97 mm (3.82 in) Front	Rear	
Tire: Type Size Manufacture (Type)	Tubeless 110/80-17 57H YOKOHAMA (F209) DUNLOP (K275F)	Tubeless 130/70-18 63H YOKOHAMA (R209) DUNLOP (K275)	
( x YY 8 5 Y 5 4 ( x YY 8 5 Y 5 6 ( x Y 8 8 5 Y 5 7 5 6 ( x Y 8 8 5 Y 5 8 6 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7 5 8 7	TARTA JANT GRASS SEDIST TRASSET LIN LEVEL	Paga ganggang Vast results at engelskald	

## GENERAL SPECIFICATIONS



∴	XJ600SD/J600SDC				
Tire pressure (Cold tire):  Basic Weight:  With oil and full fuel tanks a beginning weight  Maximum load * 26 2 26 2 26 2 26 2 26 2 26 2 26 2 2	197 kg (434 lb) (USA, CDN, AUS) 198 kg (437 lb) (California) 200 kg (441 lb) (USA, CDN, AUS)				
Cold tire pressure:	Front	Rear			
Up to 90 kg (198 lb) load ★	200 kPa (2.0 kg/cm², 28 psi)	225 kPa (2.25 kg/cm², 32 psi)			
90 kg (198 lb) ~ Maximum load <del>X</del>	200 kPa (2.0 kg/cm², 28 psi)	250 kPa (2.5 kg/cm², 36 psi)			
High speed riding	200 kPa (2.0 kg/cm², 28 psi)	250 kPa (2.5 kg/cm², 36 psi)			
	*Load is the total weight passenger, and access	nt of cargo, rider, sories.			
Brake: Front Operation Rear Operation	Single disc brake Right hand operation Single disc brake Right foot operation				
Suspension: Front suspension Rear suspension	Telescopic fork Swingarm (Monocross)				
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	140 mm (5.51 in) 110 mm (4.33 in)				
Electrical: Ignition system Generator system Battery type or model Battery capacity	T.C.I. (Digital ignition) A.C. magneto generator YTX9-BS, GTX9-BS 12V 8AH				
Headlight type:	Quartz bulb (Halogen)				
Bulb wattage x Quantity: Headlight Tail/brake light Flasher light  Parking/Running light Licence light Meter light	12V 60W/55W 12V 5W/21W 12V 27W x 4 (USA, California, CDN) 12V 21W x 4 (AUS) 12V 8W x 2 (USA, California, CDN) 12V 5W x 2 12V 1.7W x 3				
Indicator light:  Wattage x quantity "NEUTRAL"  "HIGH BEAM"  "TURN"  "OIL LEVEL"	12V 3.4W x 1 12V 3.4W x 1 12V 3.4W x 1 12V 3.4W x 1				



# MAINTENANCE SPECIFICATIONS ENGINE

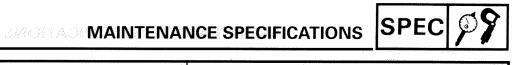
, see of <b>Model</b> (88, 81 m/s as lare 18 a	XJ600SD/XJ600SDC
Cylinder head: Warp limit <del>X</del>	0.03 mm (0.0012 in) *Lines indicate straightedge measurement.
	and the second s
	Alle Alle Alle Alle Alle Alle Alle Alle
	Harris Carrier, separate and the Carrier
Cylinder: Bore size Taper Limit Out of Round Limit	58.505 ~ 58.545 mm (2.3033 ~ 2.3049 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Camshaft: Drive method Cam cap inside dia. Camshaft Outside Dia. Shaft-to-cap clearance <limit> Cam dimensions: Intake "A" <limit> "B" <limit> "C" <limit> "B" <limit> "B" <limit> "B" <limit> "C" <limit> "B" <li< td=""><td>Chain drive (Center)  25.000 ~ 25.021 mm (0.9843 ~ 0.9859 in)  24.967 ~ 24.980 mm (0.9830 ~ 0.9835 in)  0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in)  &lt;0.16 mm (0.0063 in)&gt;  35.75 ~ 35.85 mm (1.404 ~ 1.411 in)  &lt;35.7 mm (1.4 in)&gt;  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  &lt;27.9 mm (1.1 in)&gt;  7.8 mm (0.31 in)  &lt;7.6 mm (0.30 in)&gt;  35.45 ~ 35.55 mm (1.396 ~ 1.400 in)  &lt;35.4 mm (1.4 in)&gt;  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  &lt;35.4 mm (1.4 in)&gt;  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  &lt;27.9 mm (1.1 in)&gt;  7.5 mm (0.30 in)  &lt;7.3 mm (0.29 in)&gt;  0.05 mm (0.002 in)</td></li<></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit></limit>	Chain drive (Center)  25.000 ~ 25.021 mm (0.9843 ~ 0.9859 in)  24.967 ~ 24.980 mm (0.9830 ~ 0.9835 in)  0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in)  <0.16 mm (0.0063 in)>  35.75 ~ 35.85 mm (1.404 ~ 1.411 in)  <35.7 mm (1.4 in)>  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  <27.9 mm (1.1 in)>  7.8 mm (0.31 in)  <7.6 mm (0.30 in)>  35.45 ~ 35.55 mm (1.396 ~ 1.400 in)  <35.4 mm (1.4 in)>  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  <35.4 mm (1.4 in)>  27.95 ~ 28.05 mm (1.100 ~ 1.104 in)  <27.9 mm (1.1 in)>  7.5 mm (0.30 in)  <7.3 mm (0.29 in)>  0.05 mm (0.002 in)
Cam chain:	- / X - X - X - X - X - X - X - X - X -
Cam chain type/No. of links Cam chain adjustment method	82-RH 2010/144 Auto
(64 7-67 P) (1971) 25, 187 - 1971 Pd. P) - 1971 80, 187	NE genérali decemble.
	A garage was 0
	dancers vetor negatal Sellmetral



Model		XJ600SD/XJ600SDC
Valve, valve seat, valve guide		TOTAL SEASON
Valve clearance (Cold):		0.11 ~ 0.15 mm (0.004 ~ 0.006 in)
Valve dimensions:	EX.	0.21 ~ 0.25 mm (0.008 ~ 0.010 in)
valve difficitisions.	1	Disease sabords/20
Consum Andrews Contractors	e lifebie een 1914. Is Alsker som 198	Kritinus großf
t i contra e y con Managana e i configura interconquirente i	<b>∀</b> "B"	,"C"
		"D"
Head Dia.	Face Width	Seat Width Margin Thickness
"A" Head dia.	IN. EX.	29.9 ~ 30.1 mm (1.177 ~ 1.185 in) 25.9 ~ 26.1 mm (1.020 ~ 1.028 in)
"B" Face width	IN.	2.26 mm (0.089 in)
	EX.	2.26 mm (0.089 in)
"C" Seat limit width	IN.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)
	EX.	0.9 ~ 1.1 mm (0.035 ~ 0.043 in)
<limit></limit>	IN. EX.	<2.0 mm (0.08 in)> <2.0 mm (0.08 in)>
"D" Margin thickness limit	IN.	<2.0 film (0.08 in)>   1.0 mm (0.039 in)
all mendende demokratikan betaria semininta arta dapat d	EX.	1.0 mm (0.039 in)
Stem outside diameter	IN.	4.975 ~ 4.990 mm (0.1959 ~ 0.1965 in)
	EX.	4.960 ~ 4.975 mm (0.1953 ~ 0.1959 in)
<limit></limit>	IN. EX.	<4.945 mm (0.195 in)>
Guide inside diameter	EA. IN.	<4.920 mm (0.194 in)> 5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)
Guide inside digitietei	EX.	5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)
<limit></limit>	IN.	<5.045 mm (0.199 in)>
Maria (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906) (1906)	EX.	<5.020 mm (0.198 in)>
Stem-to-guide clearance	IN.	0.010 ~ 0.037 mm (0.0004 ~ 0.0015 in)
<limit></limit>	EX. IN.	0.025 ~ 0.052 mm (0.001 ~ 0.002 in) <0.1 mm (0.004 in)
	ËX.	<0.1 mm (0.004 in)>
Stem runout limit		0.03 mm (0.0012 in)
and house of <b>n 1</b>		
	regardore de la composição de la composi	
		- Austrile
	<u> (1848) era (1844)</u>	tion that the second of the se
Valve seat width	IN.	0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)
<pre></pre>	EX. IN.	0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in) <2.0 mm (0.08 in)>
	EX.	<2.0 mm (0.08 in)>
Valve spring:	PFGGGGGERWESS	
Free length	ornania esta en la compania de la c	SECTION OF THE SECTIO
Inner spring	IN.	38.33 mm (1.51 in)
Outor or in a	EX.	38.33 mm (1.51 in)
Outer spring	IN. EX.	38.52 mm (1.52 in) 38.52 mm (1.52 in)
Installed length (valve closed		30.32 mm (1.32 m)
Inner spring	in.	32.5 mm (1.28 in)
	EX.	32.5 mm (1.28 in)
Outer spring	IN.	33.4 mm (1.31 in)
	EX.	33.4 mm (1.31 in)



Model	. X	XJ600SI	D/XJ600SDC
Tilt limit:  Inner spring (10.2) (14.00 2) (1.2)  Outer spring	IN. and EX.	2.5°/1.7 mm (0.067 in) 2.5°/1.7 mm (0.067 in)	Connocumy For the case ones common
Direction of winding (Top view	<b>):</b>	Inner spring	Outer spring
		IN. and EX.	IN. and EX.
in care a care di a	amenggagas - ang ayas 4 ng 1960an kanna gilipina - 6	Counter Clockwise	Clockwise
			aliania de la Compania de la Compani
Piston: Piston size "D" Measuring point "H"		58.47 ~ 58.51 mm (2.30 4.0 mm (0.16 in)	2 ~ 2.304 in)
Piston-to-cylinder clearance: <limit></limit>	D T	0.025 ~ 0.045 mm (0.00 <0.15 mm (0.006 in)>	10 ~ 0.0018 in)
Piston ring: Sectional sketch	Top ring	Barrel B = 1.0 mm (0.04 in) T = 2.3 mm (0.09 in)	
B	2nd ring	Taper B = 1.2 mm (0.05 in) T = 2.5 mm (0.10 in)	i describitationalisticatifi (b) tert respectively upo comunicatifi tert bekeltigalistication (b) (c) (b) (c)
iki l Januari 1900 - Tokalanga kingganathakan kinga mate akupa simul B	Oil ring	Expander B = 2.5 mm (0.10 in) T = 2.8 mm (0.11 in)	retinink decisioned ik ciciolisik morregi decisioned propositioned in the ciciolisis decisioned in the ciciolis section of the
End gap (Installed): Side clearance	Top ring <limit> 2nd ring <limit> Oil ring Top ring <limit> 2nd ring <limit> Oil ring <ind <imit="" ring=""> Oil ring</ind></limit></limit></limit></limit>	0.15 ~ 0.30 mm (0.006 ~ <0.7 mm (0.028 in)> 0.15 ~ 0.35 mm (0.006 ~ <0.7 mm (0.028 in)> 0.2 ~ 0.7 mm (0.008 ~ 0 0.035 ~ 0.07 mm (0.001 <0.15 mm (0.006 in)> 0.02 ~ 0.06 mm (0.0008 <0.15 mm (0.006 in)>	~ 0.014 in) .028 in) 4 ~ 0.0028 in)

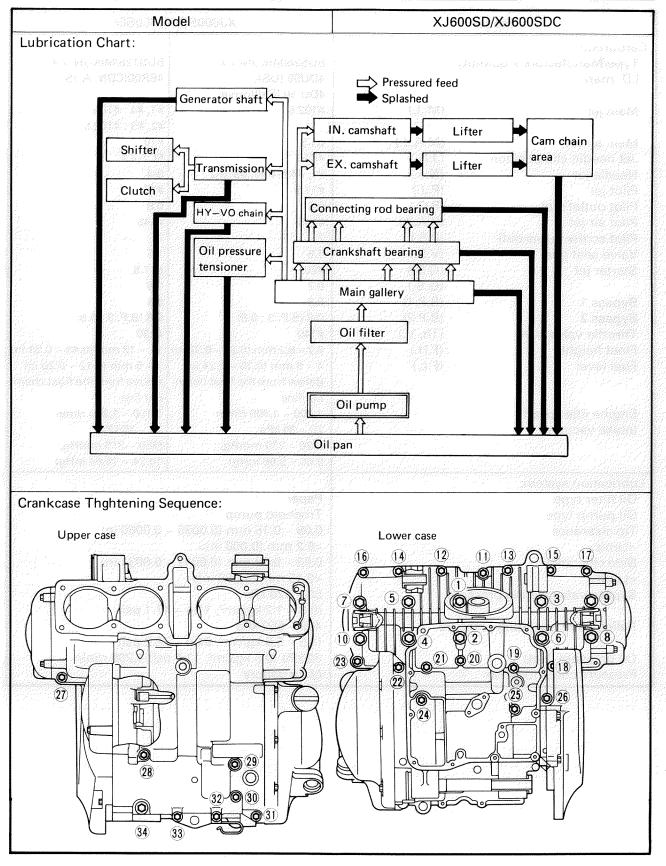


10.600@Model	XJ600SD/XJ600SDC
Connecting rod: Oil clearance a 1887.07 years 14.8 to a claimity	0.026 < 0.060 mm (0.0010 ~ 0.0024 in), a source of the control of
Crankshaft:	Array are
Runout limit "A"	0.03 mm (0.0012 in)
Big end side clearance "B" <limit></limit>	0.160 ~ 0.262 mm (0.0063 ~ 0.0103 in)
Sig end radial clearance "C"	<0.5 mm (0.02 in)> 0.026 ~ 0.060 mm (0.0010 ~ 0.0024 in)
<limit></limit>	<0.08 mm (0.003 in)>
Main journal oil clearance Bearing size No. color code	0.014 ~ 0.053 mm (0.0006 ~ 0.0021 in) 1. Blue 2. Black 3. Brown 4. Green
tari periodi de proprio de la comercia del la comercia de la comercia de la comercia del la comercia de la comercia del la comercia de la comercia del la comer	5. Yellow
Clutch:	The second secon
Thickness x Quantity <wear limit=""></wear>	2.9 ~ 3.1 mm (0.114 ~ 0.122 in) x 8 <2.7 mm (0.106 in)>
Clutch plate: Thickness x Quantity <warp limit=""></warp>	1.5 ~ 1.7 mm (0.060 ~ 0.067 in) x 7 <0.15 mm (0.006 in)>
Clutch spring: Free length x Quantity Minimum length Clutch housing:	42.8 mm (1.69 in) x 5 41.8 mm (1.65 in)
Thrust clearance Radial clearance Clutch release method	0.12 ~ 0.39 mm (0.005 ~ 0.0115 in) 0.015 ~ 0.043 mm (0.0006 ~ 0.0017 in) Outer pull, rack & Pinion pull
Transmission: Main axle deflection limit Drive axle deflection limit	0.08 mm (0.0031 in) 0.08 mm (0.0031 in)
Shifter: Shifter type	Guide bar
t de la companya de La companya de la co	
10, 149,00 - 10,00,00 (10,00,00) - 10,00 (10,00) - 10,00 (10,00) (10,0	gruz god – Smallagandi ajag kayd. Harado
1	
a Bada O Para O agenta J Lacado	
	i de de la Aguar Gran y Dan B
e de la companya del la companya de la companya del la companya de	gera 180



Carburetor:		XJ600SD/XJ600SDC		
			Pariá sobsessoras	
Type/Manufacture x quant	city	BDS26/MIKUNI x 4	BDST28/MIKUNI x 4	
I.D. mark	•	4DU00 (USA),	4BR00(CDN, AUS)	
	and remarked by	4DU 10 (California)		
Main jet	(M.J.)	#102.5	#1, #4 : #105/	
	un Miller Weiderselver		#2, #3 : #102.5	
Main air jet	(M.A.J.)	ø1.5	#70	
Jet needle-clip position	(J.N.)	1 4B10	5CT-3.5	
Needle jet	(N.J.)	#1, #4:0-4 #2, #3: 0-2	0-4	
Pilot jet	(P.J.)	T #17.5	#15	
Pilot outlet size	(P.O.)	0.8	0.8	
Pilot air jet	(P.A.J.)	#145	#145	
Pilot screw (turns out)	(P.S.)	2	2	
Valve seat size	(V.S.)	1.5	1.5	
Starter jet	(G.S <sub>1</sub> )	#20	# <b>4</b> 7.5	
	(G.S,)	0.7	0.6	
Bypass 1	(B.P.1)	0.8	0.8	
Bypass 2	(B.P.2)	0.8 (B.P. 3 : 0.8)	0.8 (B.P. 3 : 0.8)	
Throttle valve size	(Th. V.)	#140	#130	
Float height	(F.H.)	$6.2 \sim 8.2 \text{ mm} (0.24 \sim 0.32 \text{ in})$	■ 円が施設である。よったではおかめたられる。	
Fuel level	(F.L.)	4 ~ 6 mm (0.16 ~ 0.24 in)	3 ~ 5 mm (0.12 ~ 0.20 in)	
1001000	(1 ·L·/	<ul><li>■ 1.15 (1) またられることにはいる。</li><li>● 2.15 (1) またられることの複雑ができる。</li></ul>	Above from the float chan	
		ber line	ber line	
Engine idle speed		1,200 ~ 1,400 r/min	1,150 ~ 1,250 r/min	
Intake vacuum		29 ~ 30 kPa	34 ~ 36 kPa	
make vacuum		(220 ~ 230 mmHg,	(260 ~ 270 mmHg,	
		8.66 ~ 9.06 inHg)	10.24 ~ 10.64 inHg)	
<u> 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</u>	<u> </u>	8.00 ~ 9.00 iiing/	10.24 ~ 10.04 III19)	
Lubrication system:		tali kalendari k		
Oil filter type		Paper		
Oil pump type		Trochoid pump		
Tip clearance <limit> Side clearance <limit></limit></limit>		0.09 ~ 0.15 mm (0.0035 ~ 0.0060 in)		
		<0.2 mm (0.008 in)>		
		0.03 ~ 0.08 mm (0.0012 ~ 0.0031 in) <0.15 mm (0.006 in)>		
		(0.8 ~ 1.2 kg/cm², 11.4 ~ '	I.I. psi)	
Relief valve operating pressure		450 ~ 550 kPa		
		(4.5 ~ 5.5 kg/cm², 64.0 ~ 7	trafit a trafit and the contract of the contra	
Oil pressure (Hot)		80 kPa (0.8 kg/cm², 11.4 p	osi)/1,200 r/min	
Pressure check location		Main gallery		







Stree   No.   No	of the state of the tension of the question of the control of the		Thread	0'+	Tigh	tening t	orque	L. John Switzer
Cylinder head (cam chain) Cylinder head (exhaust pipe) Cylinder head (exhaust pipe) Stud bolt Cylinder head (exhaust pipe) Cylinder	Part to be tightened	Part name	size	Q ty	Nm	m⋅kg	ft·lb	Remark
Cylinder head (cam chain) Cylinder head (exhaust pipe) Cylinder head (exhaust pipe) Cylinder head (exhaust pipe) Cylinder head (exhaust pipe) Cylinder head Cap nut M 8 12 22 22 16 Spark plug — M 10 4 12.5 1.25 9.0 Cylinder head cover Cylinder and crankcase Nut M 8 1 20 2.0 14 Cylinder head Cylin	Camshaft	Bolt	M 6	24	10	1.0	7.2	Tighten ir
Stud bolt	Cylinder head (cam chain)	. I d'af ://2004/00/e-2006	M 6	4	5	1		3-stages
Cap nut			間間 かげょうのんだい		1		<ul> <li>In the second control of</li> </ul>	
Spark plug		The second of th		1	1	1	1	
Cylinder head cover Cylinder head cover Cylinder head cover Cylinder and crankcase Cylinder head Connecting rod Connec			■ 8.5 (1)		1		<ul> <li></li></ul>	
Cylinder and crankcase   Nut   M 8   1   20   2.0   14		Bolt	■ Perform to the first	4	1	2,2114,012	<ul> <li>A Company of the company</li> </ul>	1.560
Nut		[18] A. C. Lander, and M. M. Charles, Phys. Lett. B 50, 120 (1997).	Marie Mass.	4	i .	1	1 .	
Nut	CAT on such a series of the CAT of the control of the control of the CAT of t	The first of the second of the second of	# 15 a.s.	1	1	1	1	
Bolt			4 67 T Est. 11 CAVD	8	41.5		177	(M)
Bolt		しゃ 優々 さだしょうしゃれんじゅん オメルイ しんけん		14/2047	1.0	A 100 100 100 100 100 100 100 100 100 10	1 1 1 1	
Cap bolt   Bolt   M 6   1   7   0.7   5.1			■選択的カレビ インタご	2	and the second section of	A	and the second section in the second section	
Screw   M 6		324 Bibliot Carrier 1977 (1978) 451	1 -			1		17
Screw   M 6   1   7   0.7   5.1	Cam chain guide		M 6		<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> </ul>	鎌 わんせんけんさんかん	and Month Collin	
Screw   M 6   3   7   0.7   5.1	in der partiti i talan del peren 👅 del di perdusci di una con		\$ 262 miles in the con-			The second second	and the second second	
Bolt   M 6   2   10   1.0   7.2			And a facility of the second		1	Market and the	and the second second	y zadásá
Bolt	CONTROL TO CASE CONTROL CONTRO	<ul> <li>In the second of the second of</li></ul>	************************************		200		and the second of the	
Plug		Bolt	M 6	12	10	1.0	And at Comment of the forest	
Union bolt   M 20	Oil filter	Union bolt	M 20	1	17	1.7	12	
State   Stat	Drain bolt	Plug	M 14	1	43	4.3	31	
Air filter cover Air filter Air filter Air filter Bolt M 6 1 10 1.0 7.2 Nut M 8 8 20 2.0 14 Muffler Bolt M 10 2 25 2.5 18 Bolt M 8 2 20 2.0 14 Bolt Crankcase Crankcase (upper and lower) Bolt M 8 12 13 1.3 9.4 Crankcase (upper and lower) Bolt M 8 11 24 2.4 17 Bolt M 8 21 20 2.0 14 Bolt M 8 12 13 1.3 9.4 Crankcase (upper and lower) Bolt M 8 11 24 2.4 17 Bolt M 6 22 12 1.2 8.8 Bolt M 6 22 12 1.2 8.8 Bolt M 6 3 10 1.0 7.2 Crankcase (main gallary blind plug) Sleeve tensioner Bolt M 6 4 10 1.0 7.2 HI-VO chain guide (upper) Bolt M 6 5 8 0.8 5.8 Clutch pressure plate Bolt M 6 5 8 0.8 5.8 Clutch pressure plate Bolt M 6 1 10 1.0 80 Clutch boss Nut M 10 1 50 5.0 36 Nut M 10 1 10 7.2 Screw M 6 1 12 1.2 8.8 Shift shaft stopper lever Screw M 6 1 12 1.2 8.8 Shift shaft stopper lever Screw M 6 1 10 1.0 7.2 Stopper plate Shift pedal adjuster Nut M 16 1 10 1.0 7.2 Bolt M 6 1 10 1.0 7.2 Left har thread Cluckp coil base Screw M 6 1 1 10 1.0 7.2 Left har thread	Oil filter housing	Union bolt	M 20	1	50	5.0	36	242000
Air filter  Exhaust pipe  Muffler  Bolt  Nut  M 8 8 20 2.0 14  Bolt  Bolt  M 10 2 25 2.5 18  Bolt  M 8 2 20 2.0 14  Bolt  Crankcase  Crankcase  Crankcase (upper and lower)  Bolt  Bolt  Bolt  M 8 12 13 1.3 9.4  Stud bolt  Bolt  M 8 12 13 1.3 9.4  Timing plate cover  Bolt  M 6 22 12 1.2 8.8  Magneto cover  Crankcase (main gallary blind plug)  Bleeve tensioner  HI-VO chain guide (upper)  Clutch pressure plate  Clutch boss  Crimary drive gear  Drive sprocket  Camshaft segment  Screw  M 6 1 10 1.0 7.2  Bolt  M 6 2 8 0.8 5.8  Crimary drive gear  Nut  M 18 1 110 11.0 80  Crankcase (main gallary blind plug)  Bolt  M 6 1 10 1.0 7.2  Clutch boss  Crimary drive gear  Nut  M 18 1 110 11.0 80  Crimary drive gear  Nut  M 18 1 110 11.0 80  Crimary drive gear  Nut  M 18 1 10 1.0 7.2  Bolt  Crankcase (main gallary blind plug)  Bolt  M 6 2 8 0.8 5.8  Crimary drive gear  Nut  M 18 1 110 11.0 80  Crimary drive gear  Nut  M 18 1 10 1.0 7.2  Bolt  Crankcase (main gallary blind plug)  Bolt  M 6 1 10 1.0 7.2  Bolt  Clutch boss  Crimary drive gear  Nut  M 18 1 110 11.0 80  Crimary drive gear  Nut  M 18 1 10 1.0 7.2  Bolt  Crankcase (main gallary blind plug)  Bolt  M 6 1 10 1.0 7.2  Bolt  Bolt  M 6 1 10 1.0 7.2  Bolt  Bolt  M 6 1 10 1.0 7.2  Bolt	ntake manihold	Bolt	M 6	8	10	1.0	7.2	
Nut	Air filter cover	Screw	M 5	4	5	0.5	3.6	
Muffler    Bolt   M   10   2   25   2.5   18     Bolt   M   8   2   20   2.0   14     Bolt   M   8   2   20   2.0   14     Bolt   M   8   2   20   2.0   14     Bolt   M   8   12   13   1.3   9.4     Crankcase (upper and lower)   Bolt   M   8   11   24   2.4   17     Bolt   M   6   22   12   1.2   8.8     Bolt   M   6   3   10   1.0   7.2     Crankcase (main gallary blind plug)   Plug   M   20   2   12   1.2   8.8     Clutch pressure plate   Bolt   M   6   3   3   3   3     Clutch pressure plate   Bolt   M   6   4   10   1.0   7.2     Clutch boss   Nut   M   20   1   70   7.0   50     Crimary drive gear   Nut   M   16   1   50   5.0   36     Crimary drive gear   Nut   M   18   1   110   11.0   80     Clutch shaft stopper lever   Screw   M   6   1   10   1.0   7.2     Chift shaft stopper lever   Screw   M   6   1   10   1.0   7.2     Chift arm   Bolt   M   6   1   10   1.0   7.2     Chift pedal adjuster   Nut   M   6   1   10   1.0   7.2     Clotkup coil base   Screw   M   6   2   8   0.8   5.8     Clotkup coil base   Screw   M   6   2   8   0.8   5.8     Clotkup coil base   Screw   M   6   2   8   0.8   5.8     Clutch   Screw   M   6   1   10   1.0   7.2     Clutch   Screw   M   6   2   8   0.8   5.8     Clutch   Screw   M   6   1   10   1.0     Clutch	Air filter	Bolt	M 6	1	10	1.0	7.2	ke removed
Bolt	Exhaust pipe	Nut	M 8	8	20	2.0	14	
Bolt	Muffler	Bolt	M 10	2	25	2.5	18	
Crankcase         Stud bolt         M 8 12 13 1.3 9.4           Crankcase (upper and lower)         Bolt M 8 11 24 2.4 17           Bolt M 6 22 12 1.2 8.8         1.2 8.8           Timing plate cover         Bolt M 6 4 8 0.8 5.8           Magneto cover         Bolt M 6 3 10 1.0 7.2           Crankcase (main gallary blind plug)         Plug M 20 2 12 1.2 8.8           Sleeve tensioner         Bolt M 6 4 10 1.0 7.2           HI-VO chain guide (upper)         Bolt M 6 2 8 0.8 5.8           Clutch pressure plate         Bolt M 6 5 8 0.8 5.8           Clutch boss         Nut M 20 1 70 7.0 50           Primary drive gear         Nut M 16 1 50 5.0 36           Drive sprocket         Nut M 18 1 110 11.0 80           Camshaft segment         Screw M 6 1 12 1.2 8.8           Shift shaft stopper lever         Screw M 6 1 10 1.0 7.2           Shift pedal adjuster         Nut M 6 1 10 1.0 7.2           Nut M 6 1 10 1.0 7.2         Left har           Nut M 6 1 10 1.0 7.2         Left har           Shift pedal adjuster         Nut M 6 1 10 1.0 7.2           Rotor         Bolt M 10 1 80 8.0 58           Bolt M 10 1 80 8.0 58           Screw M 6 2 8 0.8 5.8		Bolt	M 8	2	20	2.0	14	
Bolt   M 8   11   24   2.4   17   Bolt   M 6   22   12   1.2   8.8   Bolt   M 6   4   8   0.8   5.8   Bolt   M 6   3   10   1.0   7.2   Bolt   M 6   4   10   1.0   7.2   Bolt   M 6   5   8   0.8   5.8   Bolt	Exhaust pipe joint	Bolt	M 8	2	20	2.0	14	ang ang mang at ang kagalah. Tang ang kagalah
Bolt   M 8   11   24   2.4   17   Bolt   M 6   22   12   1.2   8.8   Bolt   M 6   4   8   0.8   5.8   Bolt   M 6   3   10   1.0   7.2   Bolt   M 6   3   10   1.0   7.2   Bolt   M 6   3   10   1.0   7.2   Bolt   M 6   4   10   1.0   7.2   Bolt   M 6   4   10   1.0   7.2   Bolt   M 6   2   8   0.8   5.8   Bolt   M 6   2   8   0.8   5.8   Bolt   M 6   5   8   0.8   5.8   Bolt   M 6   5   8   0.8   5.8   Bolt   M 6   5   8   0.8   5.8   Bolt   Bolt   M 6   1   50   5.0   36   Bolt		Stud bolt	M 8	12	13	1.3	9.4	
Bolt   M 6   4   8   0.8   5.8   Bolt   M 6   3   10   1.0   7.2   Final Rotor   Bolt   M 6   3   10   1.0   7.2   Final Rotor   Bolt   M 6   3   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   4   10   1.0   7.2   Final Rotor   Bolt   M 6   1   10   1.0   7.2   Final Rotor   Bolt   M 6   1   10   1.0   7.2   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor   Bolt   M 10   1   80   8.0   58   Final Rotor	Crankcase (upper and lower)	Bolt	M 8	1 / / /	24	2.4	17	
Magneto cover         Bolt         M 6         3         10         1.0         7.2           Crankcase (main gallary blind plug)         Plug         M 20         2         12         1.2         8.8           Sleeve tensioner         Bolt         M 6         4         10         1.0         7.2           HI-VO chain guide (upper)         Bolt         M 6         2         8         0.8         5.8           Clutch pressure plate         Bolt         M 6         5         8         0.8         5.8           Clutch boss         Nut         M 20         1         70         7.0         50           Primary drive gear         Nut         M 16         1         50         5.0         36           Drive sprocket         Nut         M 18         1         110         11.0         80           Camshaft segment         Screw         M 6         1         12         1.2         8.8           Shift shaft stopper lever         Screw         M 6         1         10         1.0         7.2           Shift pedal adjuster         Nut         M 6         1         10         1.0         7.2           Nut         M 6         <		Bolt	<ul> <li>8 (37 ) (7 ) (1 ) (2 ) (3 ) (3 ) (3 )</li> </ul>	22	12	1.2	8.8	
Plug	Timing plate cover	Bolt	<ul> <li>Tight of the state of the state</li></ul>	17 7 1		0.8	5.8	
Bolt   M 6   4   10   1.0   7.2   7.2	항공연·주교회 시간 시간 등 등 보고 있는 것이다.	<ul> <li># JOSE 7 - A 00000007040 J 1111 Day 1 J 14</li> </ul>	<ul> <li>Of a constitution of a constitution</li> </ul>					<u> </u>
Bolt   M 6   2   8   0.8   5.8   5.8   Clutch pressure plate   Bolt   M 6   5   8   0.8   5.8   Clutch boss   Nut   M 20   1   70   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   50   7.0   7.0   50   7.0			<ul> <li>Accept the second of the second</li></ul>	1 1				<b>—</b> (0)
Clutch pressure plate		<ul> <li>A service of the servic</li></ul>	1997 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1				-67
Nut		the first the second of the second se						<b>3</b> -6
Primary drive gear         Nut         M 16         1         50         5.0         36           Drive sprocket         Nut         M 18         1         110         11.0         80           Camshaft segment         Screw         M 6         1         12         1.2         8.8           Shift shaft stopper lever         Screw         M 8         1         22         2.2         16           Shift arm         Bolt         M 6         1         10         1.0         7.2           Stopper plate         Screw         M 6         1         7         0.7         5.1           Shift pedal adjuster         Nut         M 6         1         10         1.0         7.2           Nut         M 6         1         10         1.0         7.2         Left har thread           Rotor         Bolt         M 10         1         80         8.0         58           Pickup coil base         Screw         M 6         2         8         0.8         5.8	platell procedic plate	Al California de Calendar de C	tracini estilaci estilia consista i junto	Contract of Same and the first			A Secretarial Contraction of the Contraction	-I(T)
Orive sprocket         Nut         M 18         1         110         11.0         80           Camshaft segment         Screw         M 6         1         12         1.2         8.8           Shift shaft stopper lever         Screw         M 8         1         22         2.2         16           Shift arm         Bolt         M 6         1         10         1.0         7.2           Stopper plate         Screw         M 6         1         7         0.7         5.1           Shift pedal adjuster         Nut         M 6         1         10         1.0         7.2           Nut         M 6         1         10         1.0         7.2         Left har thread           Rotor         Bolt         M 10         1         80         8.0         58           Pickup coil base         Screw         M 6         2         8         0.8         5.8		二角 コイス たっかいとうひんとがくい しょうりょう	网络经济潜水场经济 经证券					
Camshaft segment         Screw         M 6 1 22 2.2 16           Shift shaft stopper lever         Screw         M 8 1 22 2.2 16           Shift arm         Bolt         M 6 1 10 1.0 7.2           Stopper plate         Screw         M 6 1 7 0.7 5.1           Shift pedal adjuster         Nut         M 6 1 10 1.0 7.2           Nut         M 6 1 10 1.0 7.2           Nut         M 6 1 80 8.0 58           Scotor         Bolt         M 10 1 80 8.0 58           Pickup coil base         Screw         M 6 2 8 0.8 5.8		THE RESERVE AND EXPLORED SHOP OF SHIP AND A SHIP	The state of the second of the			and the first transfer of the first	The state of the state of the	
Screw M 8 1 22 2.2 16 Screw M 6 1 10 1.0 7.2 Screw M 6 1 7 0.7 5.1 Screw M 6 1 10 1.0 7.2 Screw M 6 1 7 0.7 5.1 Screw M 6 1 10 1.0 7.2 Screw M 6 1 10 1.0 7.2 Screw M 6 1 80 8.0 58 Screw M 6 2 8 0.8 5.8		The state of the s						-177
Shift arm         Bolt         M 6 1 7 0.7 5.1         1.0 7.2         7.2 5.1         - 1.0 5.1         -	para dia mangana at tanggan di anggan at anggan anggan ang anggan ang anggan ang ang	100 to 30 to						y
Stopper plate         Screw         M 6 1 7 0.7 5.1 7.2         5.1 - 1           Shift pedal adjuster         Nut M 6 1 10 1.0 7.2 Nut M 6 1 10 1.0 7.2 Store         Left har thread           Rotor         Bolt M 10 1 80 8.0 58 Screw         8 0.8 5.8 Screw	51/ *C(			1774		4 1		<b>-</b> (T)
Shift pedal adjuster								
Nut M 6 1 10 1.0 7.2 thread thread Screw M 6 2 8 0.8 5.8		The state of the s	The state of the second					-[]
Nut   M 6   1   10   1.0   7.2   thread   Bolt   M 10   1   80   8.0   58   Screw   M 6   2   8   0.8   5.8	Sniπ pedal adjuster		Great Control of the	1		1 3		Left hand
Pickup coil base   Screw   M 6   2   8   0.8   5.8		Nut	and the state of t	l i				thread
		201 P.C.C. P.Y. N. APZ395 P. G. C. APZ327	( 着りまだす。 こう					4999 9.355947
inning prate   Boit   WHU   1   45   4.5   32   🚄		тың пинтоолурушкоруюсті резулгатерд	\$1000000000000000000000000000000000000			10 40 0 10 10 10 10 10 10 10 10 10 10 10 10		utionski dagaat kalebahan
Neutral switch Screw M 5 3 4 0.4 2.9		1						

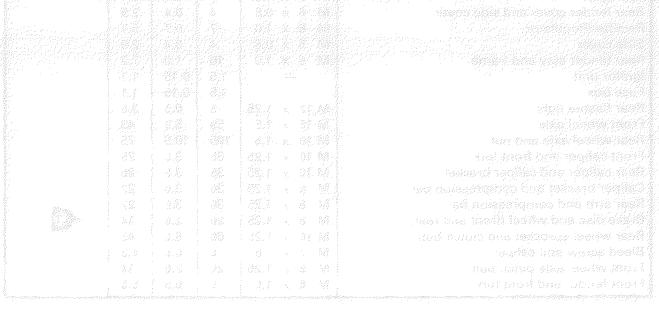


#### **CHASSIS**

Model		XJ600SD/XJ600SDC
Steering system: Steering bearing type No./Size of steel balls:		Ball bearing 14 pcs/0.28 in 14 pcs/0.31 in
Front suspension: Front fork travel Front spring free length <limit> Spring rate:  Stroke:  Optional spring Oil capacity Oil level (Fully compression)  Oil grade</limit>	3 ( 9 )	140 mm (5.51 in) 476.5 mm (18.8 in) <471.5 mm (18.6 in)> 45 N/mm (0.45 kg/mm, 25.2 lb/in) 80 N/mm (0.8 kg/mm, 44.8 lb/in) 0 ~ 80 mm (0 ~ 3.15 in) 80 ~ 140 mm (3.15 ~ 5.51 in) No. 379 cm³ (13.3 lmp oz, 12.8 US oz) 111 mm (4.37 in) Below the top of inner fork tube without fork spring Fork oil 10W or equivalent
Rear suspension: Shock absorber travel Spring free length <limit> Spring rate: Stroke: Optional spring Adjusting position</limit>		37 mm (1.46 in) 170.5 mm (6.71 in) <165 mm (6.51 in)> 1,800 N/mm (18 kg/mm, 1,008 lb/in) 0 ~ 37 mm (0 ~ 1.46 in) No.
		Hard         STD         Soft           7         6         5         4         3         2         1
Swingarm: Free play limit:	End Side	1.0 mm (0.04 in) 1.0 mm (0.04 in)
	idial teral	Cast wheel 17 × MT2.50 Aluminum 2.0 mm (0.08 in) 2.0 mm (0.08 in)
	idial teral	Cast wheel 18 × MT3.50 Aluminum 2.0 mm (0.08 in) 2.0 mm (0.08 in)
Drive chain: Type/Manufacturer No. of links Chain free play		520VL2/DAIDO 110



Model	XJ600SD/XJ600SDC
<pre></pre>	320 × 6 mm (12.6 × 0.24 in) 6.2 mm (0.24 in) <0.8 mm (0.03 in)> 6.2 mm (0.24 in) <0.8 mm (0.03 in)>
<b>SII</b> *	a 1905) – sekses erent addisht title pelubit (1906) Of 1905 – skat sekses kina kepit belining E 1905 – sekses tisab sekses (1906) E 1905 – sekses (1906)
Master cylinder inside diameter Caliper cylinder inside diameter Brake fluid type	14 mm (0.55 in) 30.2 + 33.3 mm (1.19 + 1.31 in) DOT #3 or #4
Rear disc brake: Type Disc outside diameter × thickness Pad thickness Inner <limit>* Pad thickness Outer <limit>*</limit></limit>	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)>
* Master cylinder inside diameter	12.7 mm (0.5 in)
Caliper cylinder inside diameter Brake fluid type	38.18 mm (1.5 in) DOT #3 or #4
Clutch lever: Clutch lever free play	2 ~3 mm (0.08 ~ 0.12 in)
Brake lever and brake pedal: Brake pedal position	40 mm (1.6 in) Below the top of the footrest





TIGHTENING TORQUE:			and the second s			
Port to be tightened		Tight	Tightening torque			
Part to be tightened	Thread size	Nm	m·kg	ft·lb	Remarks	
Handle crown and inner tube	M 8 x 1.25	23	2.3	17	Carried Suit	
Handle crown and steering stem	M 22 × 1.0	110	11.0	80		
Steering stem and ring nut	M 25 × 1.0	18	1.8	13	See NOTE.	
Inner tube and under bracket	M 8 x 1.25	38	3.8	2.7	000,101.	
Under bracket and brake hose holder	M 6 x 1.0	10	1.0	7.2	<b>.</b>	
Brake hose and union bolt	M 10 x 1.25	30 -	3.0	22	72.	
Upper cowl and stay	M 5 x 0.8	0.5	0.05	0.4	Gradery Gradery	
Upper cowl and screen	M 5 x 0.8	0.5	0.05	0.4	Projetion P	
Cowl stay and frame	M 8 x 1.25	16	1.6	11	y.	
Meter and stay	M 6 x 1.0	7	0.7	5.1	and the consequence of the state of the stat	
Handlebar and grip end	M 16 x 1.5	26	2.6	19		
Front master cylinder and bracket	M 6 x 1.0	9	0.9	6.5		
Front master cylinder and cap	M 4 × 0.7	1.5	0.15	1.1		
Handle crown and holder upper	M 8 x 1.25	23	2.3	17	de operation is de solve als temperatures for the operation of the solution of the solution of the solution of	
Handle crown and main switch	M 6 x 1.0	7	0.7	5.1		
Front flasher light and stay	M 12 x 1.25	4	0.4	2.9		
Head light and stay	M 8 x 1.25	7	0.7	5.1		
Upper cowl and frame	M 5 x 0.8	0.5	0.05	0.4		
Upper cowl (left and right)		1.5	0.15	1.1		
Engine mount (upper)	M 10 × 1.25	60	6.0	43		
(lower)	M 10 x 1.25	60	6.0	43		
(rear)	M 12 x 1.25	88	8.8	64		
Engine stay and frame	M 10 x 1.25	46	4.6	33		
Pivot shaft and nut	M 14 x 1.5	91	9.1	66		
Rear shock absorber and rear arm	M 12 x 1.25	64	6.4	46		
Rear shock absorber and frame	M 12 x 1.25	64	6.4	46		
Chain case and rear arm	M 6 x 1.0	7	0.7	5.1		
Seal guard	M 6 x 1.0	7	0.7	5.1		
Fuel cock and fuel tank	M 6 x 1.0	laring <b>T</b> oric	0.7	5.1		
Fuel tank bracket and fuel tank	M 6 x 1.0	7	0.7	5.1		
Fuel tank bracket and frame	M 6 x 1.0	10	1.0	7.2		
Fuel tank and frame	M 8 x 1.25	15	1.5	11		
Rotor assembly and frame	M 6 x 1.0	7	0.7	5.1		
Rear fender and frame	M 6 × 1.0	7	0.7	5.1		
Tail light	M 6 x 1.0	7	0.7	5.1	kerintagi mesperintakan kerintah Ja	
Rear fender cover and side cover	M 6 x 0.8	4	0.4	2.9		
Rectifier/Regulator	M 6 x 1.0	7	0.7	5.1	ti. Onere susuading	
Side cover	M 5 x 0.8	4	0.4	2.9	BALLET BEGINNESS KARRESTER	
Rear fender stay and frame	M 6 x 1.0	10	1.0	7.2		
Ignitor unit		1.5	0.15	1.1	네 - 사용 경찰	
Fuse box		1.5	0.15	1.1		
Rear flasher light	M 12 x 1.25	5	0.5	3.6		
Front wheel axle	M 16 x 1.5	59	5.9	43		
Rear wheel axle and nut	M 16 x 1.5	105	10.5	75	/	
Front caliper and front fork	M 10 × 1.25	35	3.5	25		
Rear caliper and caliper bracket	M 10 x 1.25	35	3.5	25		
Caliper bracket and compression bar	M 8 x 1.25	30	3.0	22		
Rear arm and compression bar	M 8 x 1.25	30	3.0	22		
Brake disc and wheel (front and rear)	M 8 x 1.25	20	2.0	14	<b>- (</b> T)	
Rear wheel sprocket and clutch hub	M 10 x 1.25	60	6.0	43	7	
Bleed screw and caliper	M 7 x 1.0	6	0.6	4.3		
Front wheel axle pinch bolt	M 8 x 1.25	20	2.0	14		
Front fender and front fork	M 6 x 1.0	9	0.9	6.5		





TIGHTENING TORQUE:			12000000000000000000000000000000000000	engen progennisting 78678 1988 s	errorrorrorrorrorrorrorrorrorrorrorrorro
Part to be tightened	Thread size	Tigh	tening t	orque	termina de la companya della companya della companya de la companya de la companya della company
r art to be tightened	Thead Size	Nm m·kg		ft • lb	Remarks
Brake hose holder and front fork	M 6 x 1.0	7	0.7	5.1	
Sidestand	M 10 x 1.25	40	4.0	29	MOOSSIENER
Sidestand and lock nut	M 10 x 1.25	40	4.0	29	
Rear master cylinder	M 8 x 1.25	23	2.3	17	GATE TO GREEK HOAS
Rear brake reservoir tank	M 6 x 1.0	4	0.4	2.9	
Footrest bracket and footrest	M 10 × 1.25	30	3.0	22	e e
Shift pedal	M 8 x 1.25	30	3.0	22	difference of the

#### NOTE: .

- 1. First, tighten the ring nut approximately 52 Nm (5.2 m kg, 37 ft lb) by using the torque wrench, then loosen the ring nut one turn.
- 2. Retighten the ring nut to specification.

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#### **ELECTRICAL**

Model	XJ600SD/XJ600SDC		
	5° at 1,300 r/min (USA, California) 10° at 1,200 r/min (CDN, AUS) 35° at 9,000 r/min Electrical For CDN, AUS		
(C) 30 (C) 30 (D) (E) (D) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	40 (O) (O) (O) (E) (O) (E) (O) (E) (O) (E) (O) (E) (O) (E) (O) (E) (O) (E) (O) (E) (O) (O) (O) (O) (O) (O) (O) (O		
T.C.I.: Pickup coil resistance (Color) T.C.I. Unit/Manufacturer	304 ~ 456Ω at 20°C (68°F) (White/Red – White/Black) 4DU/YAMAHA (USA, California) 4BR/YAMAHA (CDN, AUS)		
Ignition coil: Model/Manufacturer Minimum spark gap Primary winding resistance Secondary winding resistance	4BR/YAMAHA 6 mm (0.24 in) 1.92 ~ 2.88Ω at 20°C (68°F) 9.52 ~ 14.28 kΩ at 20°C (68°F)		
Spark plug cap: Type Resistance	Resin type 10 kΩ		
Charging system: Type	A.C. magneto generator		
A.C. Generator: Model/Manufacturer Nominal output Stator coil resistance	F4BR/YAMAHA 14V, 21A at 5,000 r/min 0.32 ~ 0.48 Ω at 20°C (68°F) (White – White)		
Voltage regulator: Type Model/Manufacturer No load regulated voltage	Semi conductor – short circuit SH629/SHINDENGEN 14.3 ~ 15.3V		
Rectifier: Model/Manufacturer Capacity Withstand voltage	SH629/SHINDENGEN 25A 200V		
Battery: Capacity Specific gravity	12V, 8AH 1.320		



Model	XJ600SD/XJ600SDC
Electrical starter system: Type Starter motor: Model/Manufacturer Output Armature coil resistance Brush — Overall length <limit> — Spring force Commutator dia. <wear limit=""> Mica undercut</wear></limit>	$ \begin{array}{c} \text{XJ600SD/XJ600SDC} \\ \\ \text{Constant mesh type} \\ \\ \text{SM-13/MITSUBA} \\ \\ \text{0.8 kW} \\ \\ \text{0.011} \sim 0.013\Omega \text{ at } 20^{\circ}\text{C } (68^{\circ}\text{F}) \\ \\ \text{12.5 mm } (0.49 \text{ in}) \\ \\ \text{<4 mm } (0.16 \text{ in}) > \\ \\ \text{340} \sim 460 \text{g } (12.0 \sim 16.2 \text{ oz}) \\ \\ \text{28. mm } (1.10 \text{ in}) \\ \\ \text{<27 mm } (1.06 \text{ in}) > \\ \\ \text{0.8 mm } (0.03 \text{ in}) \\ \end{array} $
Starter switch: Model/Manufacturer Amperage rating Coil winding resistance	4BP/HITACHI 100A 3.9 ~ 4.7Ω at 20°C (68°F)
Horn: Type/Quantity Model/Manufacturer Maximum amperage	Plane type/1 pc. YF-12/NIKKO 2.5A
Flasher relay (Relay assembly): Type Model/Manufacturer Self cancelling device Flasher frequency Wattage	Semi transistor type FB249M/NIPPON DENSO No 75 ~ 95 cycle/min 21W x 2 pcs + 3.4W
Oil level switch: Model/Manufacturer	4BR/NIPPON DENSO
Starting circuit cut-off relay: Model/Manufacturer Coil winding resistance Diode	G8R-30Y/OMRON 180 ~ 270Ω at 20°C (68°F) Yes
Circuit breaker: Type Amperage for individual circuit x quantity: MAIN HEAD SIGNAL IGNITION RESERVE	Fuse  30A × 1 15A × 1 10A × 1 30A × 1, 15A × 1, 10A × 1

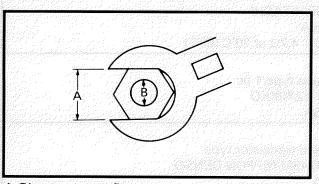
## GENERAL TORQUE SPECIFICATIONS



#### **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			
(INUL)	(Bolt)	Nm Nm		ft₁lb	
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	
r garding g	at Press	The second			



A: Distance across flats

B: Outside thread diameter

# LUBRICATION POINT AND GRADE OF LUBRICANT SPEC



### **LUBRICATION POINT AND GRADE OF LUBRICANT**

#### **ENGINE**

Lubrication Point	Symbol
Oil seal lips	
O-ring	_1S
Bearing	-Q
Piston surface	<b>-10</b>
Piston pin	
Crankshaft pin	<b>—</b> 0
Crankshaft journal	<b>—</b> •
Connecting rod bolt/nut	_FML
Camshaft cam lobe/journal	<b>–</b> 40
Valve stem (IN, EX)	<b>—</b> @
Valve stem end (IN, EX)	-IE
Valve lifter	<b>—</b>
Oil pump rotor (Inner/outer), housing	<b>—</b> •
Oil strainer assembly	<b>–</b>
Idle gear surface	<b>-0</b>
Starter idle gear	-0
Starter idle gear shaft	-0
Starter clutch (outer/roller)	-0
Crakcase cover (pull rod hole)	
Primary driver gear/damper	<b>—(6</b>
Transmission gear (Wheel/pinion)	<b>-@</b>
Axle (Main/drive)	-0
Pull rod (bearing/washer)	_ <b>T</b>
Shift cam	- <b>@</b>
Shift fork/guide bar	<b>-10</b>
Shift shaft assembly	<b>-10</b>



# LUBRICATION POINT AND GRADE OF LUBRICANT SPEC



#### **CHASSIS**

Lubrication Po	oint	Symbol
Steering bearing (upper/lower)		_:FGS
Front wheel oil seal (right/left)	enggangana ganangan ana ana ani yang maga saina a yang manan magangan pangangan magangan maganasa sain ani kal	<u> </u>
Rear wheel oil seal		
Clutch hub oil seal	till fram som en state fram en som en state framer fram fram en state framer framer framer framer framer frame En state framer en som en som en state framer f	J. G. S.
Clutch hub fitting area	ra anny ny paopina dia ny taona ny fisiana anakamina mandri ny taona anakamana ao a	LIES A CONTRACTOR DE CONTRACTOR
Rear brake pedal shaft	art kalifulla ki kalamin kina iniminan kalamin pipa iniminin pipa iniminin kalaminin kalaminin kalaminin kalam	_TIS
Shift pedal		_5C\$5,
Center stand sliding surface	and the second	_ <b>T</b> [§ <b>5</b> )
Side stand sliding surface	terini an engela parti kanapat se ini perindikal apad penara penara pangan kanapat kanapat penara pengala pen	<u> </u>
Tube guide (throttle grip) inner surface		_37US4
Clutch cable end (lever side)		TES-,
Brake lever bolt, sliding surface		<b>T</b> (\$\
Clutch lever bolt, sliding surface	and the formula design of the later than the second of the later than the later than the later than the later the later than t	_T&
Rear shock absorber (lower-collar/oil seal)	en e	_ <b>TM</b>
Swingarm pivot bearing	en menerikan kenangan pendakan menerikan menerikan dan menerikan dan menerikan dan menerikan dan menerikan dan	_TMS
Pivot shaft	Magaing selection in the selection of contract or interspect position at 220 per per activities is secured by	_ <b>9</b> CM <b>S</b> 4
Swing arm (thrust cover)		_3EM_

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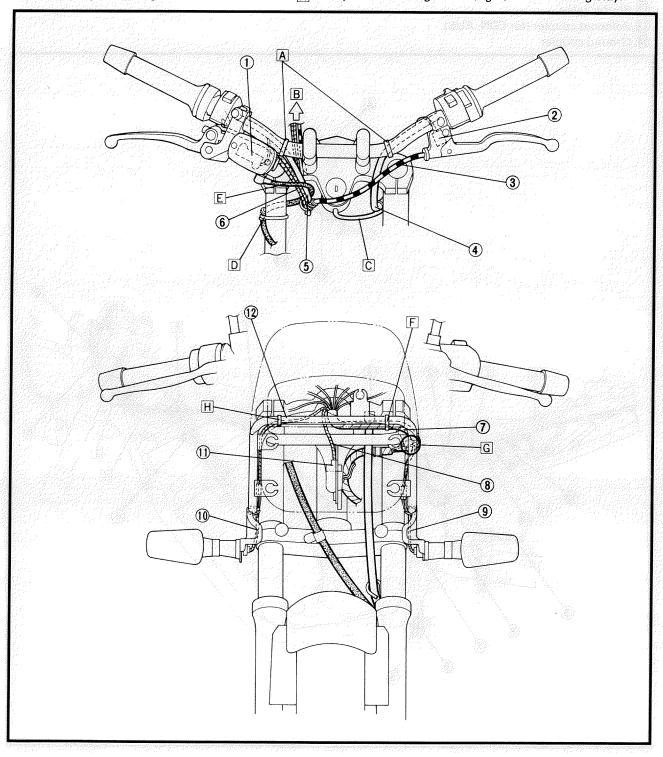
## **CABLE ROUTING**



#### CABLE ROUTING

- 1 Front brake switch
- 2 Clutch switch
- 3) Clutch cable
- 4 Handlebar switch lead (left)
- 5 Handle bar switch lead (right)
- 6 Throttle cable
- 7 Meter light lead
- 8 Headlight lead
- 9 Flasher light lead (left)
- (10) Flasher light lead (right)

- 1) Headlight coupler
- 12 Cowling stay
- A Clamp the handlebar switch lead (left and right)
- B Under the fuel tank
- Clamp the main switch lead to the handlebar switch (left).
- D Clamp the brake hose.
- [E] Pass the brake hose between the cables and handle crown.
- F Clamp the meter light lead to the cowling stay.
- G Keep the couplers on the inside of the cowling stay.
- [H] Clamp the flasher light lead (right) to the cowling stay.

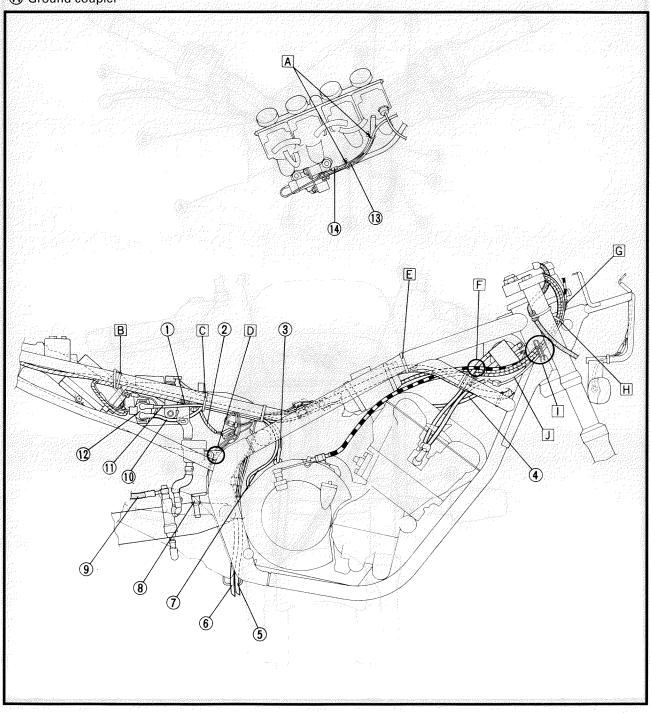


## **CABLE ROUTING**



- 1 White tape
- 2 Relay lead
- 3 Starter motor lead
- 4 High tension cord glasses posses posses
- 5 Fuel tank breather hose
- (7) Ground lead
- 8 Rear brake switch
- (9) Brake hose
- (10) Positive lead
- (1) Negative lead
- (12) Starter relay
- (13) Solenoid coupler (for CDN, AUS)
- (1) Ground coupler

- A Clamp the hose and solenoid ground lead. (for CDN, AUS)
- B Clamp the wireharness.
- C Clamp the wireharness and starter motor lead.
- D Pass the rear brake switch lead on the inside of the reservoir tank bracket.
- E Clamp the wireharness.
- (6) Air filter drain hose
  - G Clamp the clutch cable (grommet) and throttle cable 2 (no adjuster).
  - H Clamp the clutch cable, throttle cables and handlebar switch lead (right).
  - Clamp the handlebar switch lead (right), clutch cable and throttle cables.
    - J Pass the handlebar switch lead (right) on the left side of frame.

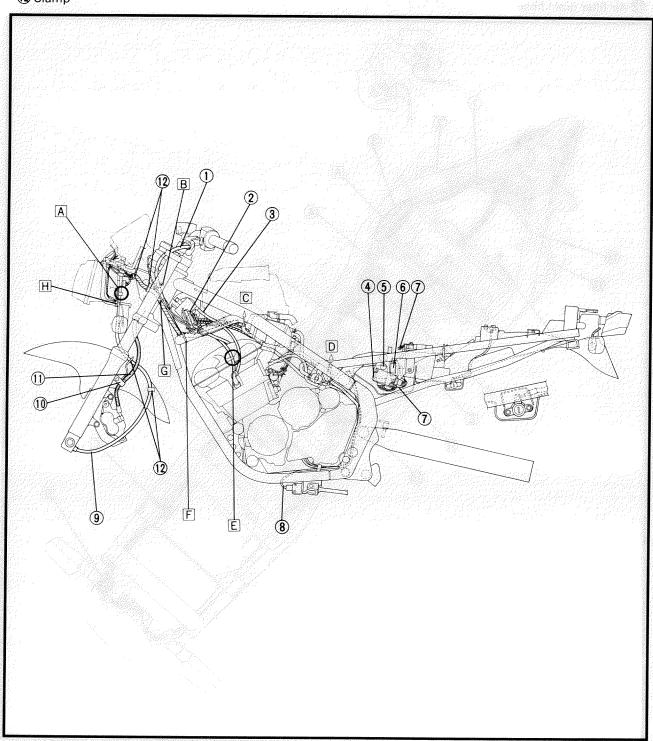


# CABLE ROUTING |SPEC



- (1) Handlebar switch lead (left)
- (2) Horn lead
- 3 High tension cord
- Rectifier/regulator
- 6 Flasher relay assembly
- 7 Ground lead
- Speedometer cable
- ® Brake hose holder
- (1) Brake hose
- 12 Clamp

- A Pass the speedometer cable on the inside of the headlight adjuster.
- B Clamp the main switch lead and handlebar switch lead (left).
- C To air cleaner
- D To fuel tank
- (5) Relay assembly E Pass the high tension cord (#2, #3) through the hole in the rubber plate.
  - F Clamp the handlebar switch lead (left) and wireharness (white tape).
  - G Clamp the wireharness and handlebar switch lead (left).
- ® Sidestand switch lead H Clamp the flasher light leads (left and right) to the cowling stay.

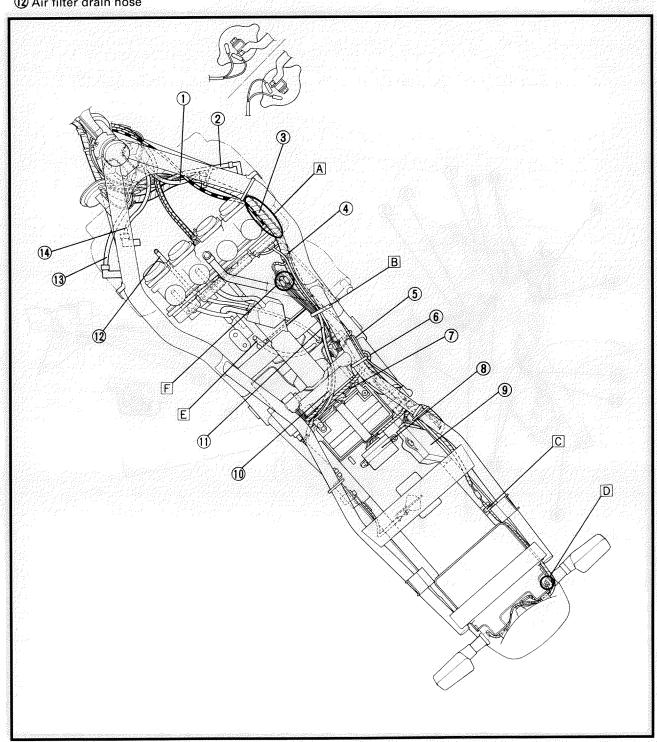


### **CABLE ROUTING**



- 1) High tension cord (#3)
- 2 High tension cord (#4)
- (3) Wireharness
- 4 Clamp
- (5) Rear brake switch lead
- (6) Regulator lead
- 7 Ground lead
- (8) Fuse box
- 9 Ignitor unit
- (10) Relay lead
- (1) Starter motor lead
- (2) Air filter drain hose

- (13) High tension cord (#1)
- ( High tension cord (#2)
- A Pass the wireharness above the carburetor.
- B Clamp the wireharness, starter motor lead, ground lead, AC magneto leads, thermo switch lead, pick up lead, sidestand switch lead, and neutral/oil level switch lead.
- C Clamp the tail light lead.
- D Pass the flasher light lead (left and right) through the hole in the rear fender.
- E Pass the fuel tank breather hose over the starter motor lead.
- F Keep the AC magneto lead, pick up lead, sidestand switch lead and neutral/oil level switch lead connector in the guide.

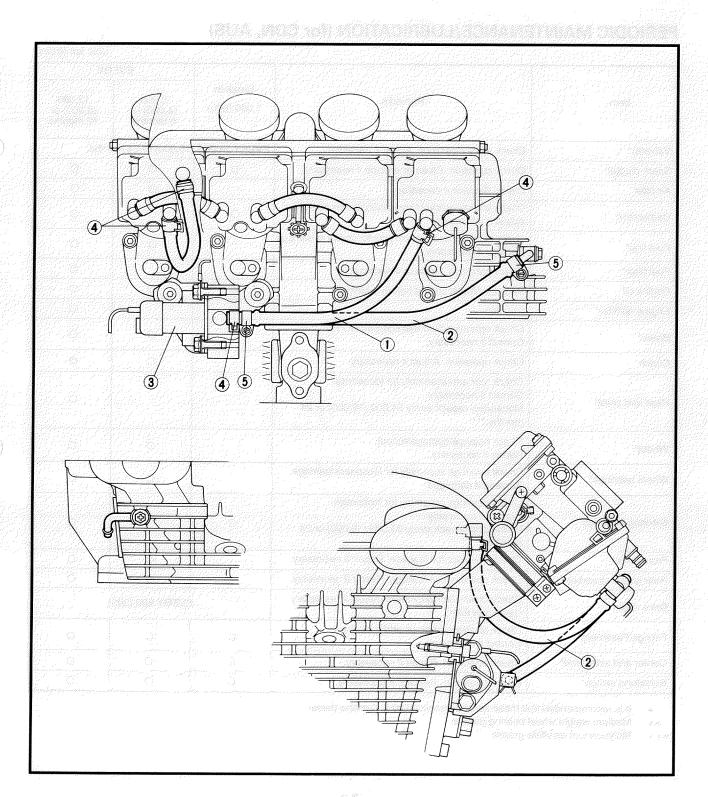






#### for CDN, AUS

- 1 Hose (solenoid valve-carburetor)
- 2 Hose (cylinder head-solenoid valve)
- 3 Solenoid valve and the operation to the control of the control of the specifical expectation of the specifical expectation of the control of the specifical expectation of the control of the specifical expectation of the control o
- 4 Clip
- ⑤ Clamp



# INTRODUCTION/ PERIODIC MAINTENANCE/LUBRICATION (for CDN, AUS)



#### 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 vehicle already in service as well as new vehicle that are being prepared for sale. All service technicians should be familiar with this entire chapter.

#### PERIODIC MAINTENANCE/LUBRICATION (for CDN, AUS)

Unit: km (miles)

			EVERY		
Item Remarks		Break-in 1,000 (600)	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) or 24 months		onths	
Spark plug(s)	Check condition. Clean or replace if necessary.	0	0	0	
Air filter	Clean. Replace if necessary.		0	0	
Carburetor*	Check idle speed/synchronization/starter operation. Adjust if necessary.	0	0	O	
Fuel line*	Check fuel hose and vacuum pipe for cracks or damage.  Replace if necessary.		0	0	
Fuel filter*	Check condition. Replace if necessary.			0	
Engine oil	Replace (Warm engine before draining).	0	0	0	
Engine oil filter*	Replace.	O		0	
Brake*	Check operation/fluid leakage/See NOTE. Correct if necessary.		О	9	
Clutch	Check operation. Adjust if necessary.		0	0	
Rear arm pivot*	Check rear arm assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.***			0	
Wheel*	Check balance/damage/runout. Repair if necessary.		0	0	
Wheel bearings*	Check bearings assembly for looseness/damage. Replace if damaged.		O	0	
Steering bearings*	Check bearings assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.**	O		O	
Front forks*	Check operation/oil leakage. Repair if necessary.		Ο	// 0	
Rear shock absorber*	Check operation/oil leakage. Repair if necessary.	n Variation of the second	0	<i>5</i> 0	
Drive chain	Check chain slack/alignment. Adjust if necessary. Clean and lube.	EVERY 500 (300)			
Fittings/Fasteners*	Check all chassis fittings and fasterners. Correct if necessary.	0	0	0	
Center and sidestand*	Check operation. Repair if necessary.	. 0	Ö	0	
Sidestand switch*	Check operation. Replace if necessary.	0	0	0	

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

\*\*: Medium weight wheel bearing grease.

\*\*\*: Molybdenum disulfide grease.

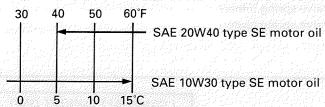
## PERIODIC MAINTENANCE/LUBRICATION (for CDN, AUS)

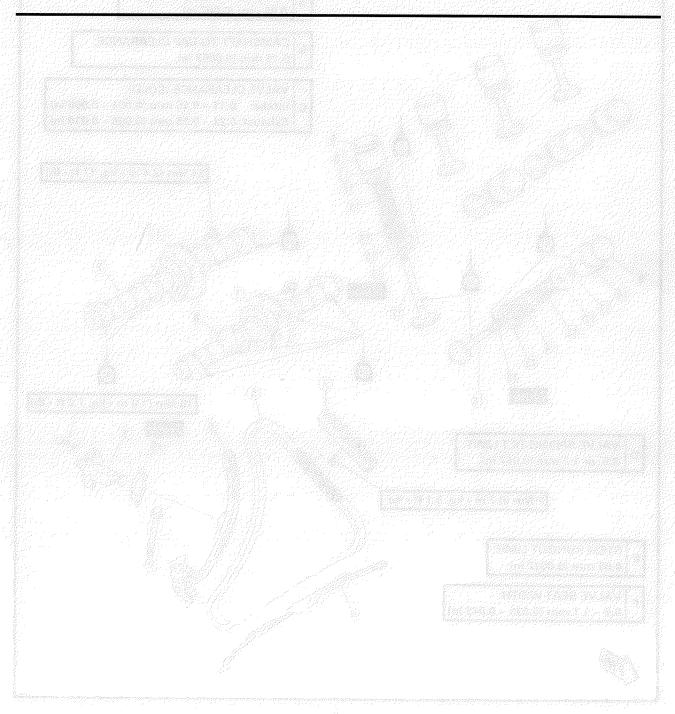


NOTE: \_

Brake fluid replacement:

- 1. When dissembling the master cylinder or caliper cylinder replace the brake fluid. Normally check the brake fluid level and add the fluid as rquired.
- 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. Engine oil:









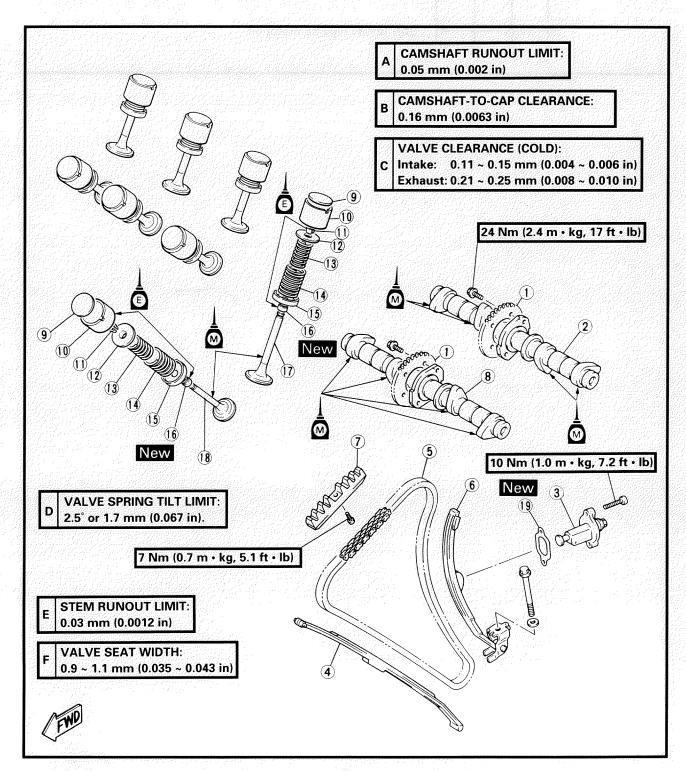


#### **EXPLODED DIAGRAM**

#### CAMSHAFT, VALVE AND TIMING CHAIN

- (1) Cam sprocket
- (2) Camshaft (intake)
- 3) Chain tensioner 10 Valve lifter
- (4) Chain guide (exhaust)
- (5) Timing chain
- 6 Chain guide (intake)
- 7 Chain guide (upper)
- (8) Camshaft (exhaust)
  - 9 Valve pad

  - (1) Valve cotter
  - (12) Valve retainer
  - (13) Valve spring (inner)
  - (4) Valve spring (outer)
- (15) Spring seat
- (16) Valve stem seul
  - 1 Intake valve
  - ® Exhaust valve
  - (19) Gasket

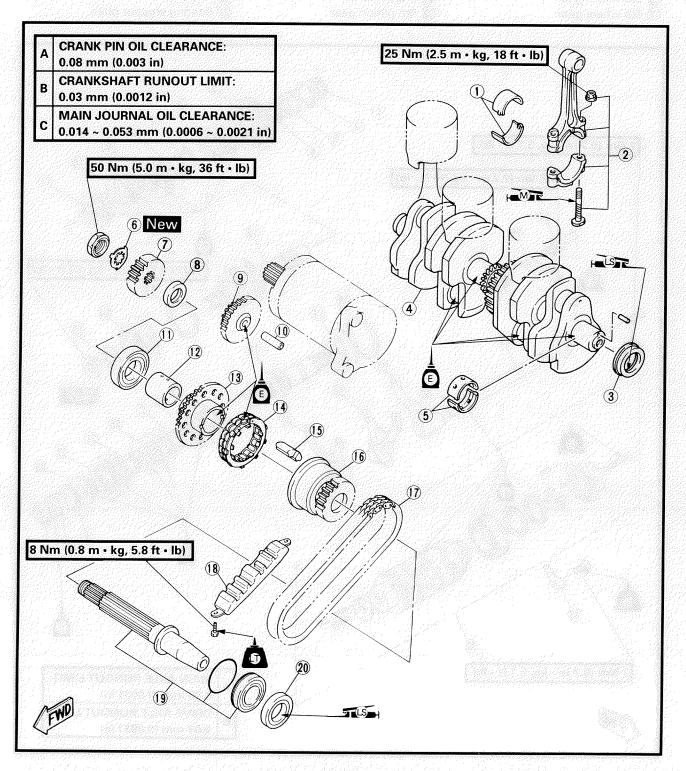




#### **CRANKSHAFT AND STARTER CLUTCH**

- 1 Crank pin bearing 8 Collar
- (3) Oil seal
- (4) Crankshaft
- 5 Main journal bearing (12) Collar

- ① Shaft
  - (1) Bearing
- 6 Lock washer 3 Starter wheel gear
- (15) Absorber
  - 16 Driven gear
- HY-VO chain
  - (B) Chain guide (HY/VO chain-upper)
  - (19) Starter shaft
  - (20) Oil seal





#### TRANSMISSION AND SHIFT CAM/SHIFT FORK

2 Circlip

(3) Bearing

(4) Plate washer

5 1st wheel gear

6 5th wheel gear

7 Circlip

(8) Washer

9 4th wheel gear

10 3rd wheel gear

1) 6th wheel gear

(12) Drive axle

(13) Circlip

(14) Drive sprocket

(15) Lock washer

(16) Circlip

(17) Bearing

(18) Main axle

(19) 5th pinion gear

20 3rd pinion gear

21) Plate washer

(22) 6th pinion gear

23 2nd pinion gear

24 Stopper screw

(25) Stopper lever

26 Spring

(27) Guide bar stopper

(28) Guide bar

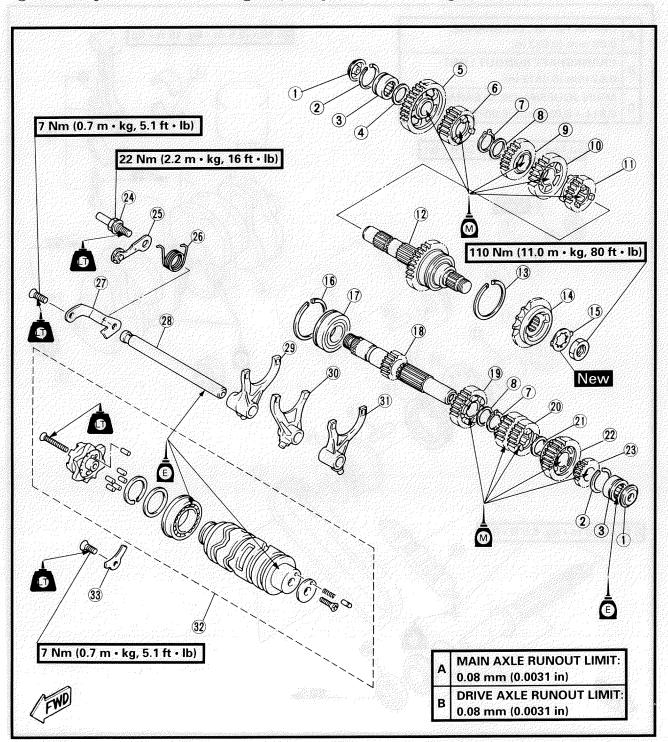
(29) Shift fork 3

30 Shift fork 2

(31) Shift fork 1

(32) Shift cam

(33) Bearing stopper plate



ENG

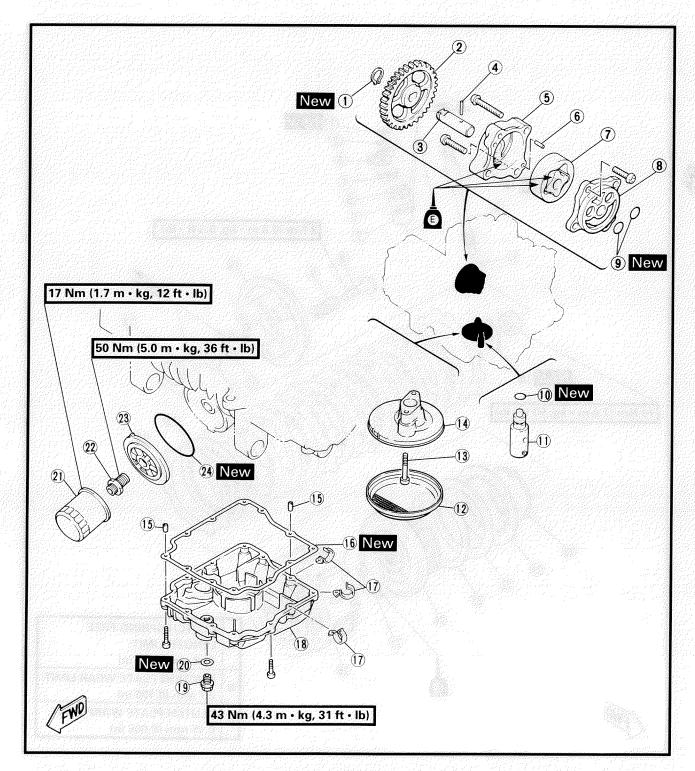


#### **OIL PUMP AND OIL STRAINER**

- 1 Circlip
- 2 Pump driven gear
- (3) Pump shaft
- (4) Dowel pin
- (5) Rotor housing
- 6 Dowel pin
- 7 Rotor assembly
- (8) Pump cover

- O-ring
- ① O-ring
- 1) Relief valve
- (12) Oil strainer
- (13) Bolt
- (14) Strainer housing
- 15 Dowel pin
- 16 Gasket

- ① Clamp
- 18 Oil pan
- 19 Drain bolt
- ② Gasket
- 2) Oil filter
- 22 Union bolt
- 23 Oil filter housing
- 24 O-ring





#### **ENGINE ASSEMBLY AND ADJUSTMENT**

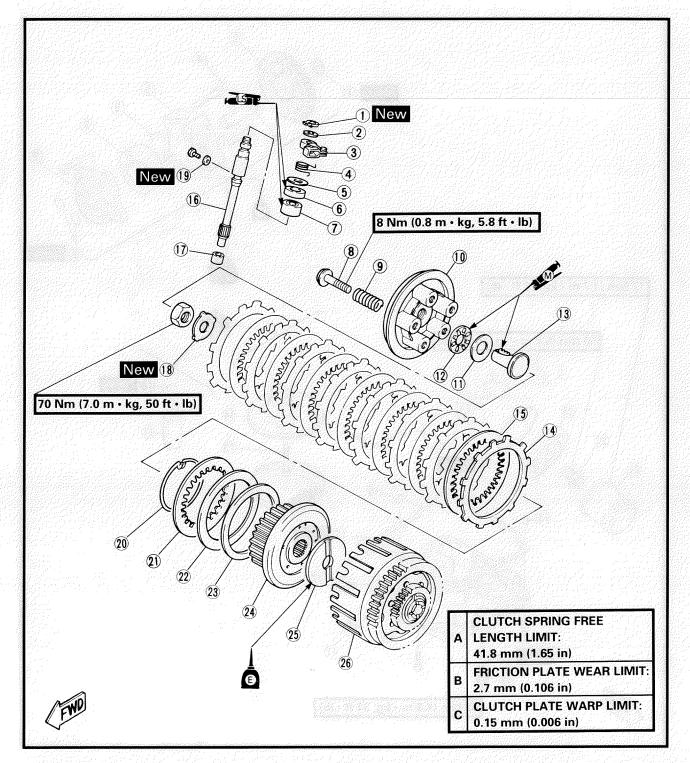
ENG

#### **CLUTCH**

- 1 Circlip
- 2 Plate washer
- (3) Pull lever
- 4 Spring
- (5) Plate wahser
- 6 Oil seal
- 7 Bearing
- 8 Bolt
- (9) Clutch spring

- 10 Pressure plate
- 11) Plate washer
- 12 Thrust bearing
- (13) Pull rod
- 14 Friction plate
- (15) Clutch plate
  - (16) Pull lever axle
  - 17 Bearing
  - (18) Lock washer

- (19) Gasket
- 20 Wire circlip
- (21) Clutch plate 1
- 22 Clutch boss spring
- 23 Seat plate
- 24 Clutch boss
  - (25) Thrust plate
  - 26 Clutch housing

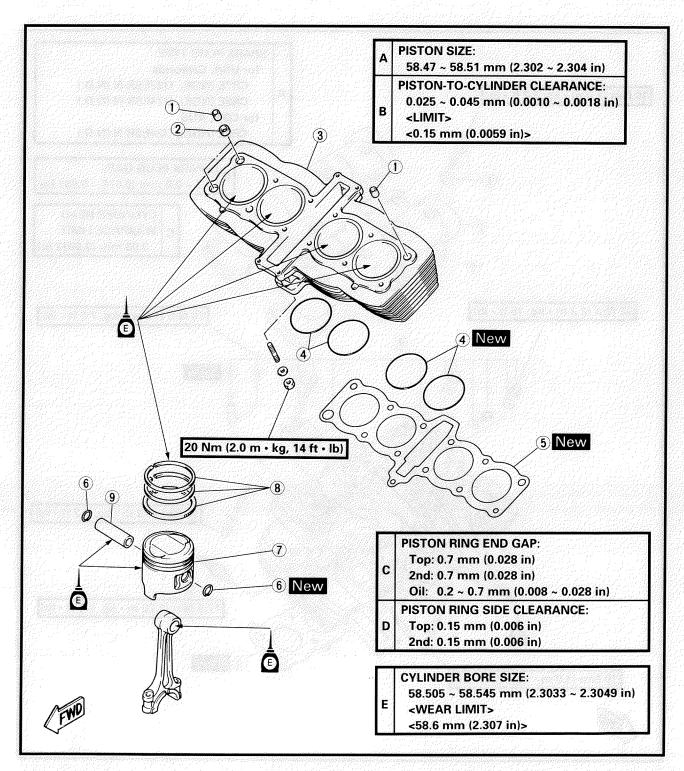


### **ENGINE ASSEMBLY AND ADJUSTMENT**



#### CYLINDER, PISTON AND PISTON RING

- 1 Dowel pin
- 6 Piston pin circlip
- 2 Gasket
- (7) Piston
- 3 Cylinder
- 4 O-ring
- (5) Gasket
- 8 Piston ring set9 Piston pin



#### **ENGINE ASSEMBLY AND ADJUSTMENT**

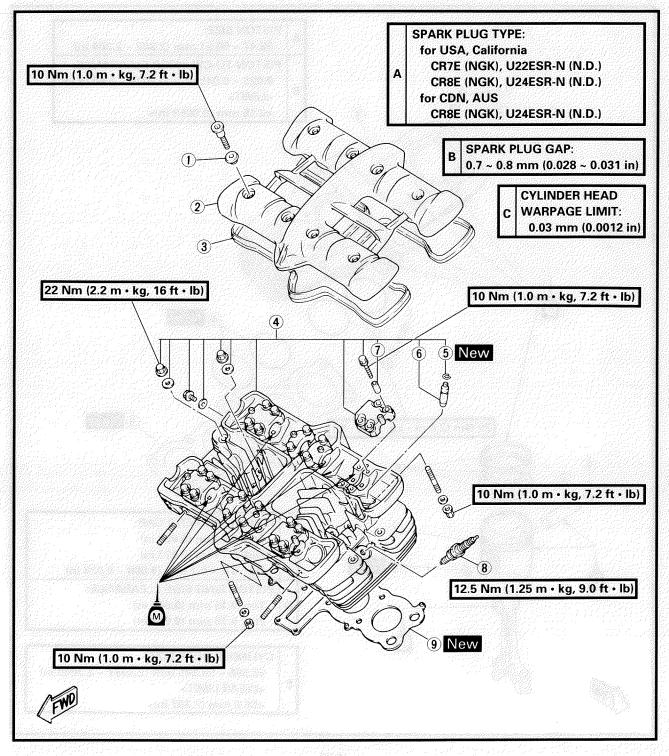
ENG



#### CYLINDER HEAD AND CYLINDER HEAD COVER

- 1 Rubber
- 2 Cylinder head cover
- 3 Cylinder head gasket
- 4 Cylinder head assembly
- (5) Circlip

- 6 Valve guide
- 7 Dowel pin
- 8 Spark plug
- 9 Gasket



### CARBURETOR (for CDN, AUS)

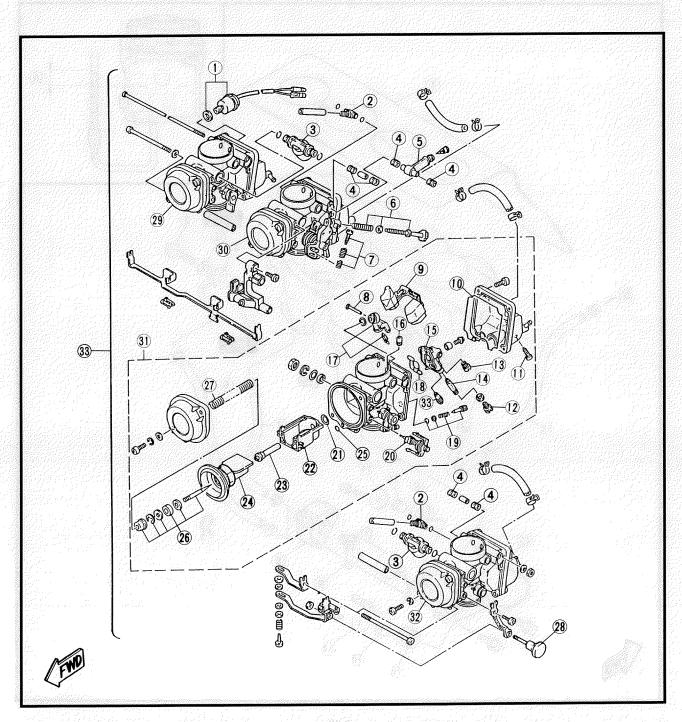


### **CARBURETOR (for CDN, AUS)**

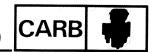
- 1 Thermo switch assembly
- 2 Joint (overflow)
- (3) Joint (ventilation)
- 4 Gasket
- 5 Joint (fuel hose)
- **6** Throttle stop screw
- 7 Stop screw
- 8 Float pin
- 9 Float
- (10) Gasket
- (1) Drain screw
- 12 Main jet

- (13) Starter jet
- (14) Holder
- (15) Jet housing
- (16) Pilot air jet
- (17) Needle valve set
- (18) O-ring
- (19) Pilot screw
- Starter plunger
- (2) O-ring
- Throttle valve support
- 23 Needle jet
- **2** Throttle valve assembly

- 25 O-ring
- 26 Jet needle set
- ② Spring
- 28 Starter lever knob
- ② Carburetor #4
- 30 Carburetor #3
- (31) Carburetor #2
- (32) Carburetor #1
- (33) Carburetor assembly



### CARBURETOR (for CDN, AUS)



1 Heat protector

2 Union bolt

3 Copper washer

4 Pipe

**5** Copper washer

6 Hose

7 Hose

8 Body

Solenoid valve

10 Damper

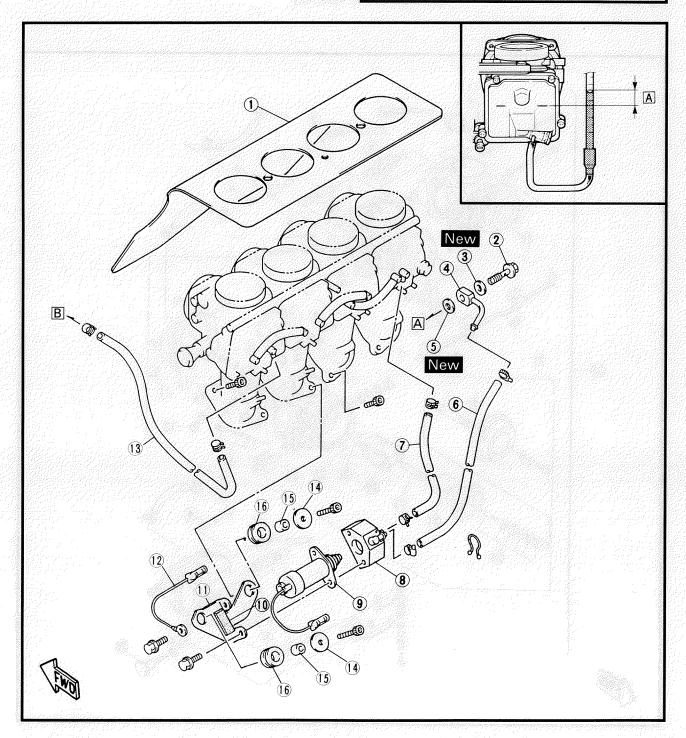
- (1) Holder
- 12 Lead
- (13) Hose
- 14 Plate washer

(15) Collar

16 Grommet

A to cylinder headB to cylinder head cover

SPECIFICATIONS		
ID MARK	4BR00 (CDN, AUS)	
MAIN JET	#1, #4:#105/#2, #3:#102.5	
MAIN AIR JET	#70	
PILOT JET	#15	
PILOT AIR JET 1	#145	
JET NEEDLE	5CT-3.5	
PILOT SCREW	2 turns out	
THROTTLE VALVE	#130	
ENGINE IDLE	1.150 1.250 -/	
SPEED	1,150 ~ 1,250 r/min	
FUEL LEVEL A	3 ~ 5 mm (0.12 ~ 0.20 in)	



### FRONT WHEEL



#### **FRONT WHEEL**

(1) Collar

② Oil seal③ Bearing

4 Tire Spacer 7 Oil seal

(8) Clutch retainer

9 Speedometer clutch

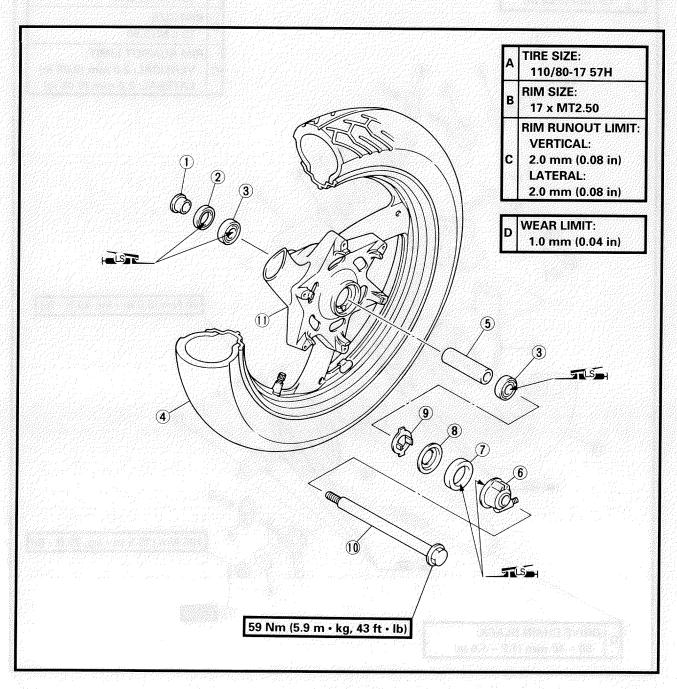
(10) Wheel axle

(1) Front wheel

6 Gear unit assembly

TIRE AIR PI	RESSURE (COLI	D);
Cold tire pressure	Front	Rear
Up to 90 kg (198 lb) load*	200 kPa (2.00 kg/cm², 28 psi)	225 kPa (2.25 kg/cm², 33 psi)
90 kg (198 lb) ~ 200 kg (441 lb)* 199 kg (439 lb) California	200 kPa (2.00 kg/cm², 28 psi)	250 kPa (2.50 kg/cm², 36 psi)
High speed riding	200 kPa (2.00 kg/cm², 28 psi)	250 kPa (2.50 kg/cm², 36 psi)

<sup>\*</sup>Load is the total weight of cargo, rider, passenger, and accessories.



**REAR WHEEL** 

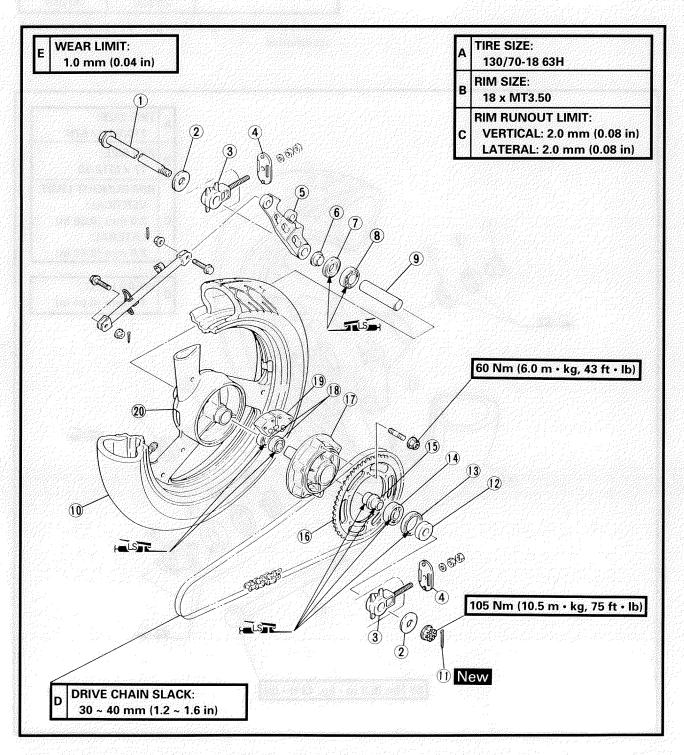


#### **REAR WHEEL**

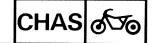
- (1) Wheel axle
- (2) Plate washer
- (3) Chain puller
- 4 End plate
- (5) Caliper bracket
- 6 Collar
- (7) Oil seal

- (8) Bearing
- (9) Spacer
- (10) Tire
- (1) Cotter pin
- (12) Collar
- (13) Oil seal
- (14) Bearing

- (15) Collar
- (16) Rear sprocket wheel
- (17) Clutch hub
- (18) Bearing
- (19) Clutch damper
- 20 Rear wheel



#### FRONT AND REAR BRAKE

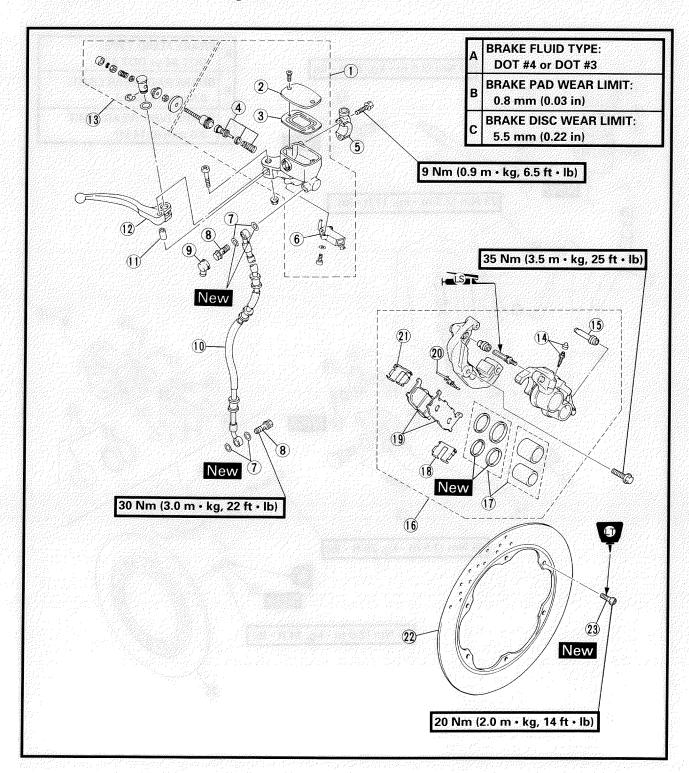


# FRONT AND REAR BRAKE FRONT BRAKE

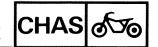
- (1) Master cylinder assembly
- 2 Master cylinder cap
- 3 Diaphragm
- 4 Master cylinder kit
- (5) Master cylinder bracket
- 6 Front brake switch
- Copper washer
- **8** Union bolt

- (9) Dust cover
- (10) Brake hose
- (1) Collar
- (12) Brake lever
- (13) Master cylinder screw kit
- (14) Bleed screw
- (15) Rataining bolt
- (6) Caliper assembly

- (17) Caliper piston assembly
- (18) Pad spring
- (19) Brake pad
- 20 Pad spring
- 21) Pad spring
- 22 Brake disc
- 23 Bolt



### **EXAMPLE PART OF FRONT AND REAR BRAKE**



#### **REAR BRAKE**

(1) Reservoir cap

2 Bush

(3) Diaphragm

4 Union bolt

5 Copper washer

(6) Reservoir tank

(7) Brake hose

(8) Master cylinder assembly

Master cylinder kit

10 Joint

(1) Crevis pin

12 Cotter pin

(13) Spring

14 Brake pedal

15 Cover

16 Bleed screw

TRetaining bolt

18 Pad spring

19 Shim

® Brake pad

21 Shim

22 Piston seal

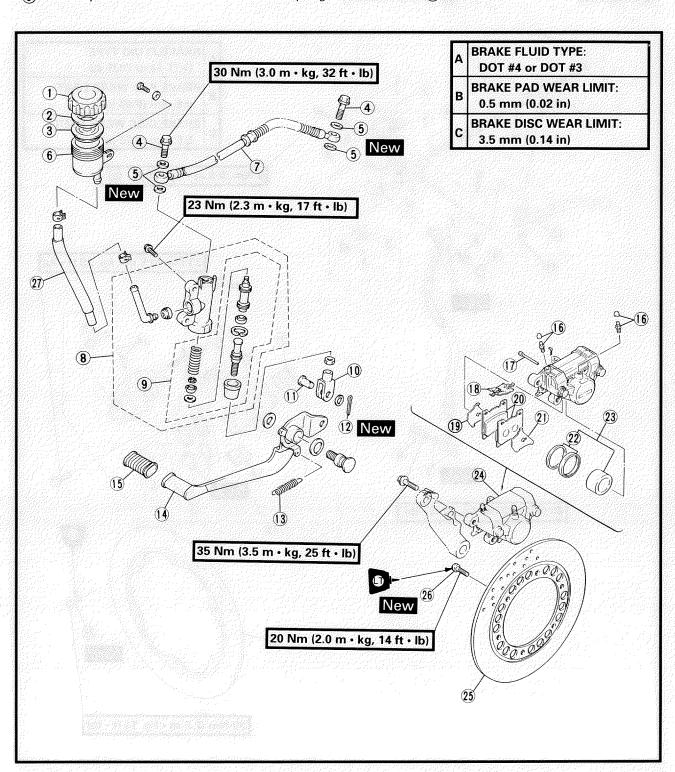
② Caliper piston assembly

**24** Caliper assembly

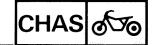
25) Brake disc

26 Bolt

(27) Reservoir hose



### MASSISSAN SHA GASH SHIFRONT FORK

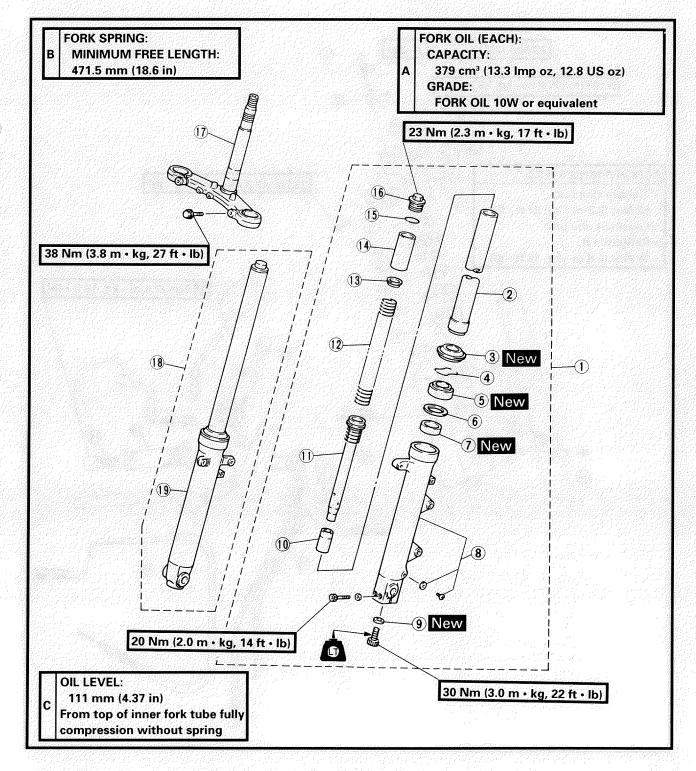


#### FRONT FORK

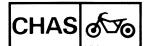
- (1) Front fork assembly (left) 8 Outer tube
- 3 Dust seal
- (4) Retaining clip
- (5) Oil seal
- (6) Washer
- 7 Slide metal

- 2 Inner tube 9 Copper washer
  - (10) Oil lock piece

  - (12) Fork spring
  - (13) Spring seat
  - (14) Spacer
- (15) O-ring
- (16) Cap bolt
- (iii) Under bracket
  - Damper assembly (right)
    - (19) Outer tube



### **STEERING HEAD AND HANDLEBAR**

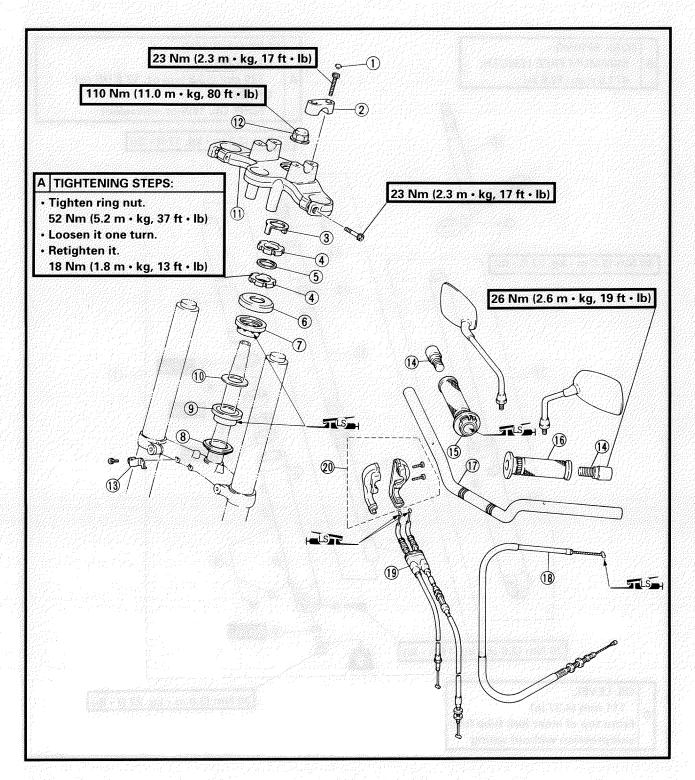


### STEERING HEAD AND HANDLEBAR

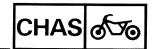
- (1) Cap
- (2) Handlebar holder
- (3) Special washer
- (4) Ring nut
- (5) Rubber washer
- (6) Ball race cover
- 7 Bearing

- (8) Ball race
- (9) Bearing
- (1) Rubber seal
- (1) Handle crown
- (12) Nut
- (13) Brake hose holder
- (14) Grip end

- (15) Handlebar grip (right)
- 16 Handlebar grip (left)
- 17) Handleber
- (18) Clutch cable
- 19 Throttle cable
- 20 Cable connector



### **REAR SHOCK ABSORBER AND SWINGARM**

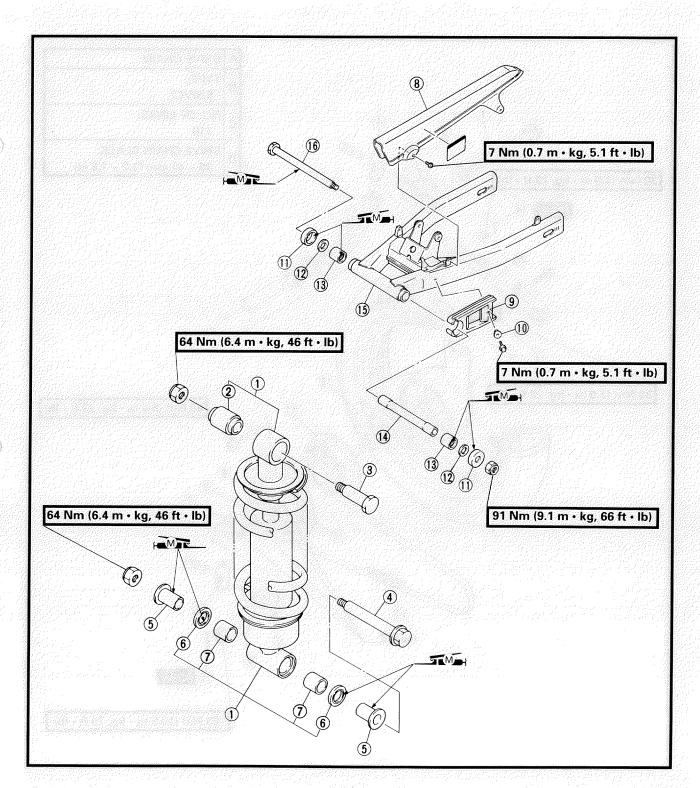


### **REAR SHOCK ABSORBER AND SWINGARM**

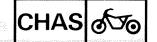
- 1) Rear shock absorber assembly
- 2 Bush
- 3 Bolt
- 4 Bolt
- (5) Collar
- 6 Oil seal
- 7 Bush

- (8) Chain case
- (9) Chain protecter
- (10) Collar
- (1) Cover
- 12 Plate washer
- 13 Bearing
- 14 Bush

- (15) Swingarm
- (16) Pivot shaft



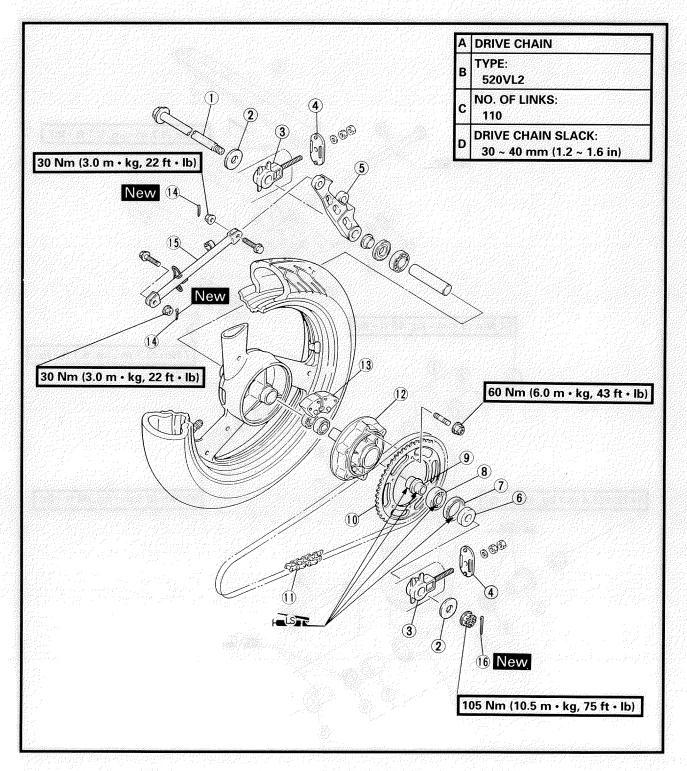
### **DRIVE CHAIN AND SPROCKETS**



#### **DRIVE CHAIN AND SPROCKETS**

- (1) Wheel axle
- 2 Plate washer
- 3 Chain puller
- 4 End plate
- (5) Caliper bracket
- (6) Collar
- 7 Oil seal
- 8 Bearing

- (9) Collar
- (i) Rear sprocket wheel
  - (1) Drive chain
  - (12) Clutch hub
  - (13) Clutch damper
  - (14) Cotter pin
  - (15) Compression bar
  - 16 Cotter pin



### **ELECTRICAL COMPONENTS**



#### **ELECTRICAL COMPONENTS**

- 1 Battery
- 2 Rectifier/regulator
- (3) Relay assembly
- 4 Spark plug cap
- (5) Ignition coil
- 6 Main switch
- Starter relay
- 8 Ignitor unit

**BATTERY**:

**SPECIFIC GRAVITY: 1.32** 

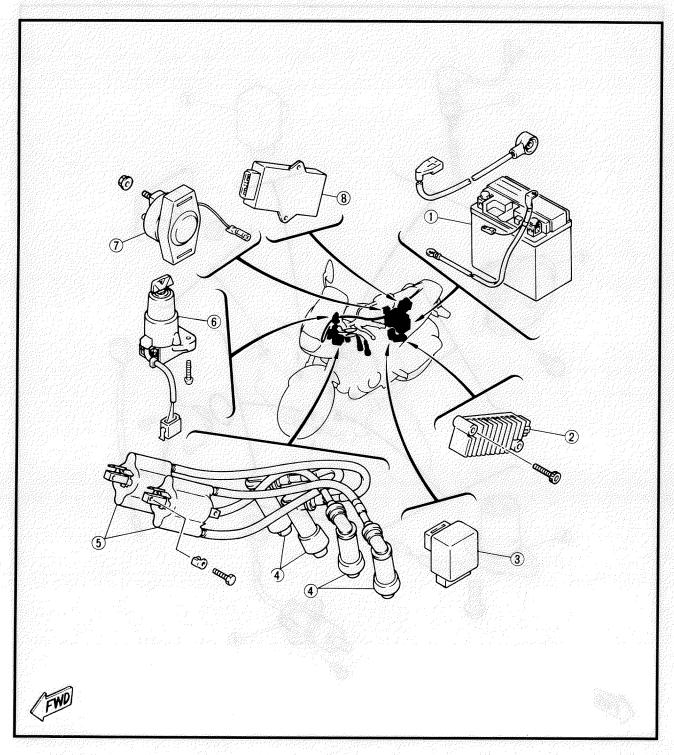
**IGNITION COIL:** 

PRIMARY COIL RESISTANCE:

1.92 ~ 2.88Ω at 20°C (68°F)

**SECONDARY COIL RESISTANCE:** 

9.52 ~ 14.28k $\Omega$  at 20°C (68°F)



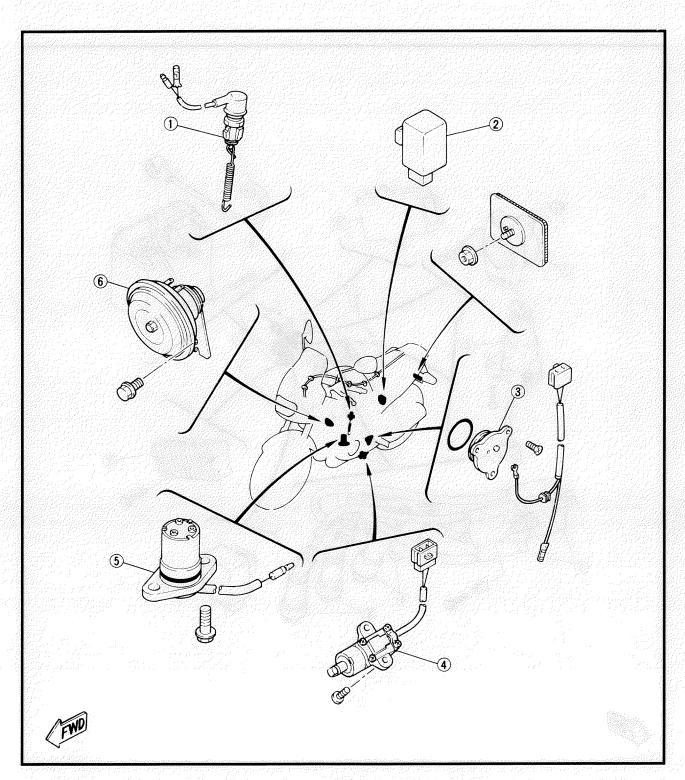


### **ELECTRICAL COMPONENTS**

ELEC ==

- 1 Rear brake switch
- 2 Flasher relay
- Neutral switch

  Neutral sw
- (4) Sidestand switch
- ⑤ Oil level switch
- 6 Horn



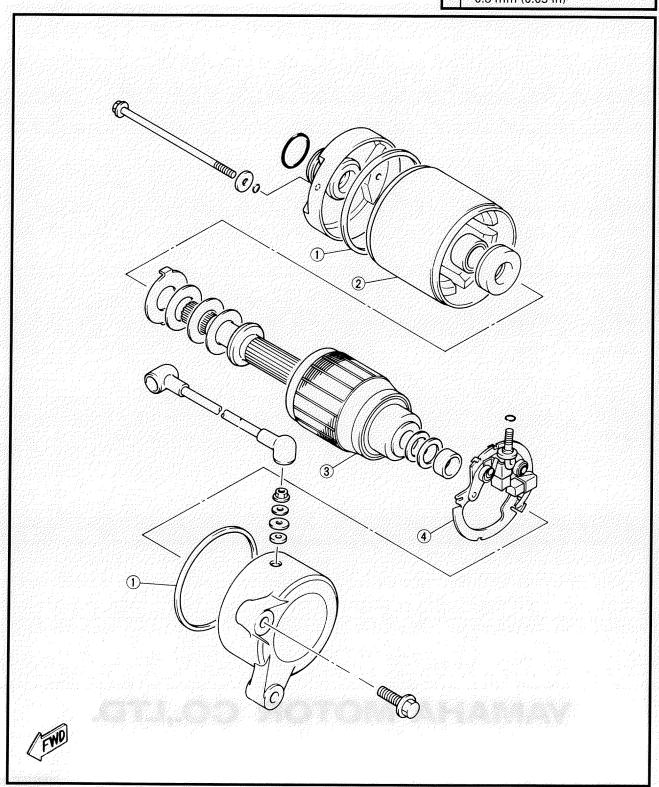
### **ELECTRIC STARTING SYSTEM**



#### **STARTER MOTOR**

- ① O-ring ② Yoke
- 3 Armature4 Brush

	A CONTRACTOR OF THE PROPERTY O
Α	ARMATURE COIL RESISTANCE: $3.9 \sim 4.7\Omega$ at $20^{\circ}$ C (68°F)
В	BRUSH WEAR LIMIT: 4 mm (0.16 in)
С	COMMUTATOR WEAR LIMIT: 27 mm (1.06 in)
D	MICA UNDERCUT: 0.8 mm (0.03 in)



## XJ600SD '92 WIRING DIAGRAM

