



GENERAL SPECIFICATIONS

APPENDICES

SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	RZ500N
Model Code Number:	52X
Vehicle Identificaiton Number:	JYA52X00 * FA000101
Engine Starting Number:	52X-000101
Dimensions:	
Overall Length	2,085 mm (82.1 in)
Overall Width	705 mm (27.8 in)
Overall Height	1,145 mm (45.1 in)
Seat Height	780 mm (30.7 in)
Wheelbase	1,375 mm (54.1 in)
Minimum Ground Clearance	145 mm (5.7 in)
Basic Weight	
Weight Oil and Full Fuel Tank	199 kg (439 lb)
Minimum Turning Radius:	3,100 mm (122 in)
Engine:	
Engine Type	Liquid cooled, 2-stroke, gasoline
Cylinder Arrangement	V-4 cylinder
Displacement	499 cm ³
Bore x Stroke	56.4 x 50.0 mm (2.22 x 1.97 in)
Compression Ratio	6.6 : 1
Compression Pressure	883 kPa (9.0 kg/cm ² , 128 psi)
Starting System	Kick starter
Lubrication System:	Separate lubrication (Yamaha Autolube)
Oil Type or Grade:	
Engine Oil	Yamalube 2-cycle oil or Air cooled 2-stroke engine oil
Capacity	2.0 L (1.8 Imp qt, 2.1 US qt)
Transmission Oil:	SAE 10W30 type SE motor oil
Periodic Oil Change	1.5 L (1.3 Imp qt, 1.6 US qt)
Total Amount	1.6 L (1.4 Imp qt, 1.7 US qt)
Radiator Capacity:	
(Including All Routes)	1.95 L (1.72 Imp qt, 2.06 US qt)
Air Filter:	Wet type element
Fuel:	
Type	Premium gasoline
Tank Capacity	22 L (4.8 Imp gal, 5.8 US gal)
Reserve Amount	5 L (1.1 Imp gal, 1.3 US gal)
Carburetor:	
Type/Manufacturer	VM26SS x 4/MIKUNI

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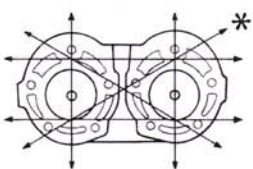
Model	RZ500N													
Spark Plug: Type/Manufacturer Gap	DR9HS/NGK, W27FSR/NIPPONDENSO 0,6 ~ 0,7 mm (0,024 ~ 0,028 in)													
Clutch Type:	Wet, multiple-disc													
Transmission: Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Transmission Type Operation Gear Ratio:	Gear 69/31 (2.225) Chain Drive 40/15 (2.666) Constant mesh, 6-speed Left foot operation 1st 36/15 (2.400) 2nd 32/19 (1.684) 3rd 30/22 (1.363) 4th 28/24 (1.166) 5th 24/23 (1.043) 6th 23/24 (0.958)													
Chassis: Frame Type Caster Angle Trail	Double cradle 26° 95 mm (3.74 in)													
Tire: Type Size (F) Size (R)	Tubeless 120/80 V16 YOKOHAMA F101 130/80 V18 YOKOHAMA R101													
Tire Pressure (Cold tire): Basic Weight: With Oil and Full Fuel Tank Maximum Load * Cold Tire Pressure Up to 90 kg (198 lb) Load * 90 kg (198 lb) ~ Maximum load * High Speed Riding	<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">199 kg (439 lb)</td> </tr> <tr> <td colspan="2" style="text-align: center;">211 kg (465 lb)</td> </tr> <tr> <td style="text-align: center;">Front</td> <td style="text-align: center;">Rear</td> </tr> <tr> <td style="text-align: center;">196 kPa (2.0 kg/cm², 28 psi)</td> <td style="text-align: center;">226 kPa (2.3 kg/cm², 32 psi)</td> </tr> <tr> <td style="text-align: center;">226 kPa (2.3 kg/cm², 32 psi)</td> <td style="text-align: center;">284 kPa (2.9 kg/cm², 42 psi)</td> </tr> <tr> <td style="text-align: center;">226 kPa (2.3 kg/cm², 36 psi)</td> <td style="text-align: center;">245 kPa (2.5 kg/cm², 36 psi)</td> </tr> </table>		199 kg (439 lb)		211 kg (465 lb)		Front	Rear	196 kPa (2.0 kg/cm ² , 28 psi)	226 kPa (2.3 kg/cm ² , 32 psi)	226 kPa (2.3 kg/cm ² , 32 psi)	284 kPa (2.9 kg/cm ² , 42 psi)	226 kPa (2.3 kg/cm ² , 36 psi)	245 kPa (2.5 kg/cm ² , 36 psi)
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* Load is the total weight of cargo, rider, passenger, and accessories.														
Brake: Front Brake Type Operation Rear Brake Type Operation	Dual disc brake Right hand operation Single disc brake Right foot operation													
Suspension: Front Suspension Rear Suspension	Telescopic fork Swingarm (New monocross suspension)													
Shock Absorber: Front Shock Absorber Rear Shock Absorber	Coil spring, Oil damper Coil spring, Oil/Gas damper													



Model	RZ500N
Wheel Travel: Front Wheel Travel Rear Wheel Travel	140 mm (5.5 in) 120 mm (4.7 in)
Electrical: Ignition System Generator System Battery Type Model Battery Capacity	CDI A.C. generator 12N5.5-3B 12V 5.5AH
Headlight Type:	Bulb type (Quartz bulb)
Bulb Wattage x Quantity: Headlight Tail/Brake Light Flasher Light Meter Light	12V, 60W/55W x 1 12V, 5W/21W x 1 12V, 21W x 4 12V, 3.4W x 5
Indicator Light: Wattage x Quantity: "NEUTRAL" "HIGH BEAM" "TURN" "OIL"	12V, 3.4W x 1 12V, 3.4W x 1 12V, 3.4W x 1 12V, 3.4W x 1

MAINTENANCE SPECIFICATIONS

Engine

Model	RZ500N
Cylinder Head: Warp Limit 	0.05 mm (0.002 in) * Lines indicate straightedge measurement
Cylinder: Bore Size < Limit > Taper Limit Out of Round Limit	56.40 ~ 56.42 mm (2.2205 ~ 2.2213 in) 56.50 mm (2.2244 in) 0.05 mm (0.002 in) 0.05 mm (0.002 in)

MAINTENANCE SPECIFICATIONS

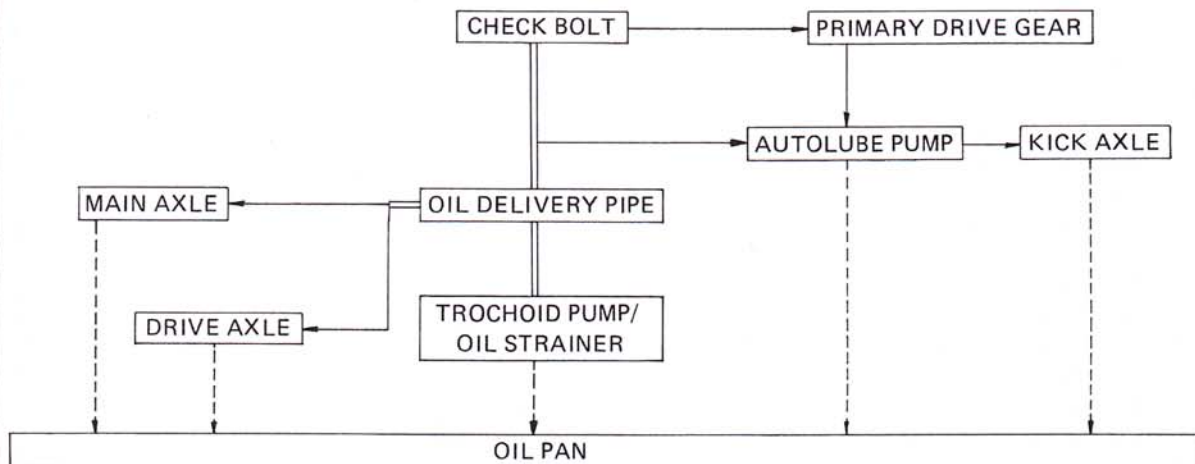


Model	RZ500N
<p>Piston: Piston Clearance < Limit > Piston Size "D" Measuring Point "H"</p> <div style="text-align: center;"> </div> <p>1st 2nd</p>	<p>0.060 ~ 0.065 mm (0.0024 ~ 0.0026 in) 0.10 mm (0.004 in) 56.39 ~ 56.40 mm (2.220 ~ 2.221 in) 15 mm (0.6 in)</p> <p>56.65 mm (2.230 in) 56.90 mm (2.240 in)</p>
<p>Piston Ring: Top Ring: Dimensions (B x T) End Gap (Installed) < Limit > Side Clearance (Installed) < Limit ></p> <div style="text-align: center;"> </div> <p>2nd Ring: Type Dimensions (B x T) End Gap (Installed) < Limit > Side Clearance (Installed) < Limit ></p> <div style="text-align: center;"> </div>	<p>Keystone 2.2 x 1.20 mm (0.0866 x 0.0472 in) 0.30 ~ 0.45 mm (0.012 ~ 0.018 in) 0.7 mm (0.028 in) 0.03 ~ 0.05 mm (0.0012 ~ 0.020 in) 0.10 mm (0.0039 in)</p> <p>Plain 1.85 x 1.20 mm (0.0728 x 0.0472 in) 0.30 ~ 0.45 mm (0.012 ~ 0.018 in) 0.7 mm (0.028 in) 0.030 ~ 0.065 mm (0.0012 ~ 0.0026 in) 0.11 mm (0.0043 in)</p>
<p>Crankshaft:</p> <div style="text-align: center;"> </div> <p>Crank Width "A" Assembly Width "B" < Runout Limit > Big End Side Clearance "C" < Limit > Small End Free Play "D" < Limit ></p>	<p>55.95 ~ 56.00 mm (2.2028 ~ 2.2047 in) 167.85 ~ 168.00 mm (6.6083 ~ 6.6014 in) 0.03 mm (0.0012 in) 0.25 ~ 0.75 mm (0.0098 ~ 0.0295 in) 0.1 mm (0.004 in) 0.4 ~ 0.6 mm (0.0157 ~ 0.0236 in) 2.0 mm (0.08 in)</p>
<p>Clutch: Friction Plate Thickness Quantity < Wear Limit > Clutch Plate Thickness Quantity < Warp Limit > Clutch Spring Free Length Quantity Minimum Length Ring-Spring Minimum Height Push Rod Bending Limit Clutch Release Method</p>	<p>2.9 ~ 3.1 mm (0.1142 ~ 0.1220 in) 7 pcs. 2.8 mm (0.11 in) #1 1.4 ~ 1.7 mm (0.055 ~ 0.067 in)/ #2 2.0 mm (0.079 in) #1 6pcs./#2 1pcs. 0.1 mm (0.004 in) 42.8 mm (1.69 in) 6 pcs. 41.5 mm (1.634 in) 3.25 mm (0.128 in) 0.5 mm (0.020 in) Inner push, screw push</p>



Model	RZ500N
Clutch Lever: Free Play	8 ~ 12 mm (0.31 ~ 0.47 in)
Balancer: Drive Method	Gear
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 Bending Limit	Guide Bar 0.1 mm (0.024 in)
Carburetor: I.D. Mark Main Jet (M.J.) Main Air Jet (M.A.J.) Jet Needle (J.N.) Needle Jet (N.J.) Pilot Air Jet (P.A.J.) Pilot Jet (P.J.) Valve Seat Size (V.S.) Starter Jet (G.S.) Fuel Level (F.L.) Float Height (F.H.) Engine Idle Speed	47X00 # 195 # 1.8 (Upper cylinder), # 1.6 (Lower cylinder) 5LT14-3 0-0 # 1.1 # 22.5 2.8 # 40 1.5 ± 1.0 mm (0.06 ± 0.04 in) 21 ± 1.0 mm (0.83 ± 0.04 in) 1,250 r/min
Reed Valve: Valve Stopper Height Valve Bending Limit	8.7 ~ 9.3 mm (0.343 ~ 0.366 in) 0.5 mm (0.02 in)
Lubrication System: Oil Filter Type: Oil Pump Type: Tip clearance < Limit > Side Clearance < Limit >	Paper type Trochoid type 0.10 ~ 0.15 mm (0.004 ~ 0.006 in) 0.17 mm (0.0067 in) 0.04 ~ 0.09 mm (0.0016 ~ 0.0035 in) 0.12 mm (0.0047 in)

Lubrication Chart:



MAINTENANCE SPECIFICATIONS



Model	RZ500N
Cooling System: Radiator Core Size: Width Height Thickness Radiator Cap Opening Pressure	315 mm (12.4 in) 220 mm (8.66 in) 16 mm (0.63 in) 74 ~ 103 kPa (0.75 ~ 1.05 kg/cm ² , 10.7 ~ 14.9 psi)
Coolant: Total Amount Reservoir Tank Capacity < From Low to Full Level > Water Pump Type Reduction Ratio	1.95 L (1.72 Imp qt, 2.06 US qt) 0.35 L (0.31 Imp qt, 0.37 US qt) 0.25 L (0.22 Imp qt, 0.264 US qt) Single-suction centrifugal pump 28/18 (1.555)
Thermostat: Opening Temperature Full Open Temperature/Lift	65°C (149°F) 80°C (176°F)/7 mm (0.28 in) or more



MAINTENANCE SPECIFICATIONS

Tightening Torque

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Cylinder head	Nut	M8 x 1.25	20	22	2.2	16	
Spark plug	—	M14 x 1.25	4	20	2.0	14	
Cylinder	Stud bolt	M8 x 1.25	20	13	1.3	9.4	
Crankcase	Stud bolt	M8 x 1.25	16	13	1.3	9.4	
Cylinder	Nut	M8 x 1.25	16	28	2.8	20	
Coolant drain (Cyl. Head)	Flange bolt	M8 x 1.25	1	16	1.6	11	
YPVS valve	Bolt	M5 x 0.8	4	7	0.7	5.1	
YPVS holder	Bolt	M6 x 1.0	4	7	0.7	5.1	
YPVS holder retainer	Bolt	M5 x 0.8	4	7	0.7	5.1	
YPVS joint holder	Bolt	M5 x 0.8	4	7	0.7	5.1	
YPVS pulley bracket	Bolt	M6 x 1.0	2	10	1.0	7.2	
YPVS pulley	Screw	M5 x 0.8	2	5	0.5	3.6	
Coolant drain (Water pump)	Flange bolt	M8 x 1.25	1	16	1.6	11	
Water pump housing	Bolt	M6 x 1.0	5	10	1.0	7.2	
Water jacket	Bolt	M6 x 1.0	4	10	1.0	7.2	
Thermostat cover	Bolt	M6 x 1.0	3	10	1.0	7.2	
Thermostat housing-Bracket	Bolt	M6 x 1.0	1	10	1.0	7.2	
Thermostat housing-Cylinder	Bolt	M6 x 1.0	1	8	0.8	5.8	
Radiator mount	Bolt	M6 x 1.0	4	7	0.7	5.1	
Oil pump (Engine oil)	Bolt	M6 x 1.0	2	10	1.0	7.2	
Oil pump (Transmission oil)	Screw	M5 x 0.8	2	5	0.5	3.6	
Oil pum housing	Bolt/Screw	M6 x 1.0	3	8	0.8	5.8	
Drain plug	Bolt	M12 x 1.25	1	22	2.2	16	
Delivery pipe-Cover	Bolt	M6 x 1.25	2	10	1.0	7.2	
Delivery pipe	Union bolt	M8 x 1.25	2	17.5	1.75	12.5	
Carburetor joint	Bolt	M6 x 1.0	16	10	1.0	7.2	
Exhaust pipe flange	Stud bolt	M8 x 1.25	6	13	1.3	9.4	
Exhaust pipe	Nut	M8 x 1.25	6	22	2.2	16	
Exhaust pipe	Flange bolt	M8 x 1.25	2	22	2.2	16	
Muffler (Upper)	Flange bolt	M8 x 1.25	4	16	1.6	11	
Bearing retainer (Main axle)	Bolt	M6 x 1.0	2	10	1.0	7.2	
Oil buffer	Bolt	M6 x 1.0	1	10	1.0	7.2	
Crankcase	Bolt	M8 x 1.25	17	24	2.4	17	
Crankcase	Stud bolt	M8 x 1.25	1	13	1.3	9.4	
Crankcase	Nut	M8 x 1.25	1	22	2.2	16	
Bearing retainer (Drive axle)	Bolt	M6 x 1.0	2	7	0.7	5.1	
Transmission cover	Bolt	M6 x 1.0	8	10	1.0	7.2	
Generator cover housing	Bolt	M6 x 1.0	3	10	1.0	7.2	
Generator cover	Bolt	M6 x 1.0	3	10	1.0	7.2	
Crankcase cover (Left)	Bolt	M6 x 1.0	6	10	1.0	7.2	
Crankcase cover (Right)	Bolt	M6 x 1.0	11	10	1.0	7.2	
Crankcase blind plug retainer	Bolt	M6 x 1.0	1	10	1.0	7.2	
Shift cam stopper	Bolt	M6 x 1.0	1	10	1.0	7.2	
Kick gear stopper	Bolt	M6 x 1.0	2	10	1.0	7.2	Use lock washer

MAINTENANCE SPECIFICATIONS



Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Kick crank	Nut	M12 x 1.5	1	65	6.5	47	
Primary gear	Nut	M16 x 1.5	2	85	8.5	61	
Clutch boss	Nut	M20 x 1.5	1	90	9.0	65	Use lock washer
Clutch cam housing	Screw	M5 x 0.8	2	5	0.5	3.6	
Pressure plate	Screw	M6 x 1.0	6	8	0.8	5.8	
Clutch adjuster lock	Nut	M8 x 1.25	1	16	1.6	11	
Drive sprocket	Nut	M22 x 1.5	1	90	9.0	65	Use lock washer
Shift arm	Bolt	M6 x 1.0	1	10	1.0	7.2	
Change pedal adjuster	Nut	M6 x 1.0	2	8	0.8	5.8	
Thermo switch	—	M16 x 1.25	1	23	2.3	17	
Thermo unit	—	—	1	15	1.5	11	
Neutral switch	—	M10 x 1.25	1	3	0.3	2.2	
Stator coil	Screw	M6 x 1.0	3	7	0.7	5.1	
Flywheel	Nut	M12 x 1.5	1	80	8.0	58	
Pickup coil	Screw	M5 x 0.8	2	5	0.5	3.6	



Chassis

Model	RZ500N
Steering System: Steering Bearing Type	Taper roller bearing
Front Suspension: Front Fork Travel Fork Spring Free Length < Limit > Collar Length Spring Rate K1 K2 K3 Stroke K1 K2 K3 Optional Spring Oil Capacity Oil Grade	140 mm (5.51 in) 498 mm (19.6 in) 493 mm (19.4 in) 40 mm (1.57 in) 7.75 N/mm (0.79 kg/mm, 44.2 lb/in) 10.20 N/mm (1.04 kg/mm, 58.2 lb/in) 24.00 N/mm (2.45 kg/mm, 137 lb/in) 0 ~ 95 mm (0 ~ 3.74 in) 95 ~ 115 mm (3.74 ~ 4.53 in) 115 ~ 146 mm (4.53 ~ 5.51 in) No. 300 cm ³ (10.6 Imp oz, 10.1 US oz) Yamaha fork oil 5wt or equivalent
Rear Suspension: Shock Absorber Travel Spring Free Length < Limit > Fitting Length Spring Rate Stroke Optional Spring Enclosed Gas Pressure	40 mm (1.57 in) 168.5 mm (6.63 in) 167 mm (6.57 in) 159 mm (6.26 in) 157 N/mm (16.0 kg/mm, 896 lb/in) 40 mm (1.57 in) No. 981 kPa (10 kg/cm ² , 142 psi)
Rear Arm: Swingarm Free Play Limit: End Swingarm Free Play Limit: Side	1 mm (0.04 in) 1 mm (0.04 in)
Front Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Cast wheel MT2.75 x 16 Aluminum 2 mm (0.08 in) 2 mm (0.08 in)
Rear Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Cast wheel MT3.00 x 18 Aluminum 2 mm (0.08 in) 2 mm (0.08 in)
Drive chain: Type/Manufacturer No. of Links Chain Slack	50VR/DID 102 Links 15 ~ 20 mm (0.6 ~ 0.8 in)

MAINTENANCE SPECIFICATIONS



Model	RZ500N
<p>Front Disc Brake:</p> <p>Type</p> <p>Disc Outside Dia. x Thickness</p> <p>Wear Limit</p> <p>Pad Thickness Inner</p> <p style="padding-left: 20px;">< Limit > *</p> <p>Pad Thickness Out</p> <p style="padding-left: 20px;">< Limit > *</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Master Cylinder Inside Dia.</p> <p>Caliper Cylinder Inside Dia.</p> <p>Brake Fluid Type</p>	<p>Dual</p> <p>267 x 7.5 mm (10.5 x 0.295 in)</p> <p>7 mm (0.28 in)</p> <p>5.5 mm (0.217 in)</p> <p>0.5 mm (0.02 in)</p> <p>5.5 mm (0.217 in)</p> <p>0.5 mm (0.02 in)</p> <p>15.87 mm (0.63 in)</p> <p>42.85 mm (1.69 in)</p> <p>DOT # 3</p>
<p>Rear Disc Brake:</p> <p>Type</p> <p>Disc Outside Dia. x Thickness</p> <p>Wear Limit</p> <p>Pad Thickness Inner</p> <p style="padding-left: 20px;">< Limit > *</p> <p>Pad Thickness Outer</p> <p style="padding-left: 20px;">< Limit > *</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>Master Cylinder Inside Dia.</p> <p>Caliper Cylinder Inside Dia.</p> <p>Brake Fluid Type</p>	<p>Single</p> <p>245 x 8.5 mm (0.65 x 0.34 in)</p> <p>8 mm (0.31 in)</p> <p>5.5 mm (0.217 in)</p> <p>0.5 mm (0.02 in)</p> <p>5.5 mm (0.217 in)</p> <p>0.5 mm (0.02 in)</p> <p>12.70 mm (0.50 in)</p> <p>38.18 mm (1.50 in)</p> <p>DOT # 3</p>
<p>Brake Lever and Brake Pedal:</p> <p>Brake Lever Free Play</p> <p>Brake Pedal Position</p> <p>Brake Pedal Free Play</p>	<p>1 ~ 2 mm (0.04 ~ 0.08 in)</p> <p>50 ~ 60 mm (2.0 ~ 2.4 in)</p> <p>(Below the top of the footrest)</p> <p>20 ~ 30 mm (0.8 ~ 1.2 in)</p>

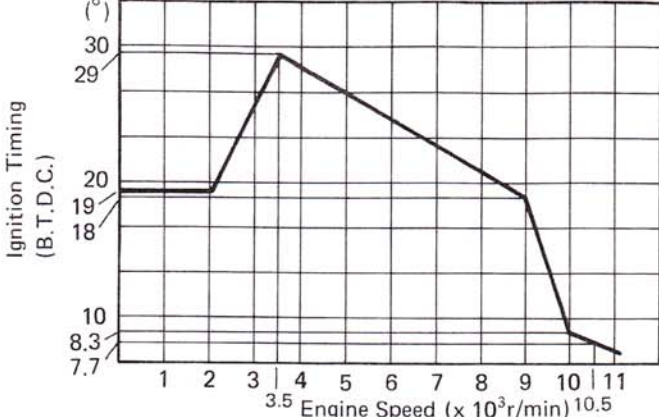
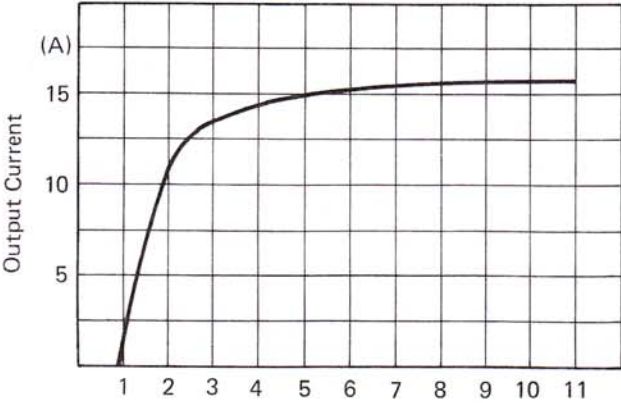


MAINTENANCE SPECIFICATIONS

Tightening Torque

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m•kg	ft•lb	
Front axle	Bolt	M14 x 1.5	1	58	5.8	42	
Rear axle	Bolt/Nut	M16 x 1.5	1	105	10.5	75	
Rear axle lock	Nut	M16 x 1.5	1	60	6.0	43	
Front axle pinch	Bolt/Nut	M8 x 1.25	1	20	2.0	14	
Steering crown-Fork	Bolt	M8 x 1.25	2	20	2.0	14	
Steering stem	Nut	M25 x 1.0	1	110	11	80	
Under bracket-Fork	Bolt/Nut	M8 x 1.25	4	23	2.3	17	
Caliper	Bolt	M10 x 1.25	6	35	3.5	25	
Air bleed (All)	Screw	M8 x 1.25	6	6	0.6	4.3	
Brake hose (All)	Union bolt	M10 x 1.25	9	26	2.6	19	
Front master cylinder bracket	Bolt	M6 x 1.0	2	9	0.9	6.5	
Front master cylinder cap	Screw	M5 x 0.8	2	2	0.2	1.4	
Brake disc	Bolt	M8 x 1.25	18	20	2.0	14	
Driven sprocket	Bolt/Nut	M8 x 1.25	6	32	3.2	23	
Handlebar-Fork	Bolt	M8 x 1.25	4	20	2.0	14	
Handlebar-Steering crown	Bolt	M6 x 1.0	2	9	0.9	6.5	
Engine mount (Front lower)	Bolt/Nut	M8 x 1.25	1	32	3.2	23	
Engine mount (Rear upper)	Bolt/Nut	M8 x 1.25	1	32	3.2	23	
Engine mount (Rear lower)	Bolt	M8 x 1.25	1	32	3.2	23	
Pivot shaft	Bolt	M16 x 1.25	1	85	8.5	81	
Relay arm 1-Frame	Bolt/Cap nut	M10 x 1.25	1	32	3.2	23	
Relay arm 1-Relay arm 2	Bolt/Nut	M10 x 1.25	1	32	3.2	23	
Swingarm-Relay arm 2	Bolt/Nut	M10 x 1.25	1	32	3.2	23	
Shock absorber-Relay arm 2	Bolt/Nut	M10 x 1.25	1	32	3.2	23	
Tensionbar-Frame (Left)	Bolt	M10 x 1.25	1	32	3.2	23	
Tensionbar-Frame (Right)	Bolt/Nut	M8 x 1.25	1	32	3.2	23	
Tensionbar-Engine	Bolt/Nut	M8 x 1.25	1	23	2.3	17	
Tensionbar-Shock absorber	Bolt/Nut	M10 x 1.25	1	32	3.2	23	
Footrest-Muffler bracket	Bolt/Nut	M10 x 1.25	4	42	4.2	30	
Rear master cylinder-Bracket	Bolt/Nut	M8 x 1.25	2	20	2.0	14	
Muffler-Bracket	Bolt/Nut	M10 x 1.25	2	25	2.5	18	
Down tube frame	Bolt/Nut	M8 x 1.25	3	32	3.2	23	

Electrical

Model	RZ500N
Voltage: Ignition System: Ignition Timing (B.T.D.C.) Advanced Timing (B.T.D.C.) Advancer Type	12V 19° at 1,200 r/min 7° at 11,000 r/min Electrical 
CDI: CDI Unit-Model/Manufacturer Pickup Coil Resistance (Color) Source Coil Resistance (Color)	47X-50/NIPPONDENSO 112Ω ± 20% at 20°C (68°F) (White/Green – White/Red) 127Ω ± 20% at 20°C (68°F), 18.8Ω ± 20% at 20°C (68°F) (Green – Brown), (Brown – Red)
Ignition Coil: Model/Manufacturer Primary Winding Resistance Secondary Winding Resistance	47X-50/NIPPONDENSO 0.67Ω ± 20% at 20°C (68°F) 12 kΩ ± 20% at 20°C (68°F)
Spark Plug Cap: Type Resistance	Noise-Suppressor type 5 kΩ
Charging System/Type:	A.C. generator
A.C. Generator: Model/Manufacturer Nominal Output 	47X50/NIPPONDENSO 14V, 14A at 3,000 r/min Stator Coil Winding Resistance (Color) 0.4Ω ± 20% at 20°C (68°F) (White – White)



Model	RZ500N
Voltage Regulator: Type Model/Manufacturer No. Load Regulated Voltage	Short circuit SH569/SHINDENGEN 14.3 ~ 15.3V
Rectifier: Model/Manufacturer Capacity Withstand Voltage	SH569/SHINDENGEN 25A 200V
Battery: Capacity Specific Gravity	12V, 5.5AH 1.280
Horn: Type x Quantity Model/Manufacturer Maximum Amperage	Plain type x 1 CF-12/NIKKO 2.5A
Flasher Relay: Type Model/Manufacturer Self Cancelling Device Flasher Frequency Wattage	Condenser type 4K0/NIPPONDENSO Yes. 85 cycle/min 21W x 2 + 3.4W
Self Cancelling Unit: Model/Manufacturer	1A0/MATSUSHITA
Sidestand Switch: Model/Manufacturer	5V0/YAMAHA
Sidestand Control Unit: Model/Manufacturer	4Y3M0/YAMAHA
Oil Level Switch Model/Manufacturer	47X/TAIHEIYO ASTI
Oil Level Switch: Model/Manufacturer	47X/TAIHEIYO ASTI
Electric Fan: Model/Manufacturer Operating Temperature	47X/NIPPONDENSO 105 ~ 98°C (221 ~ 208°F)
Thermostatic Switch: Model/Manufacturer	47X/NIHON THERMOSTAT
Thermo-Unit: Model/Manufacturer	11H/NIPPONSEIKI
Circuit Breaker: Type Amperage for Individual Circuit x Quantity Main Headlight YPVS Signal Reserve	Fuse 20A x 1 15A x 1 10A x 1 10A x 1 15A x 1

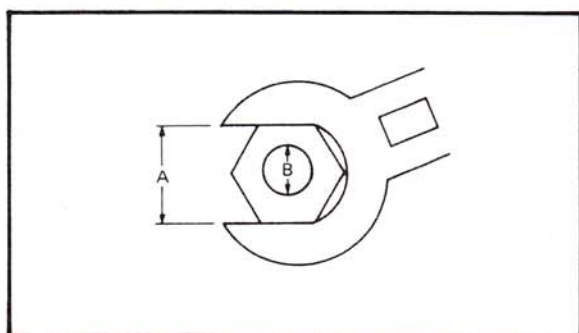
GENERAL TORQUE SPECIFICATIONS/ DEFINITION OF UNITS



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 multifastener assemblies in a crisscross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

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

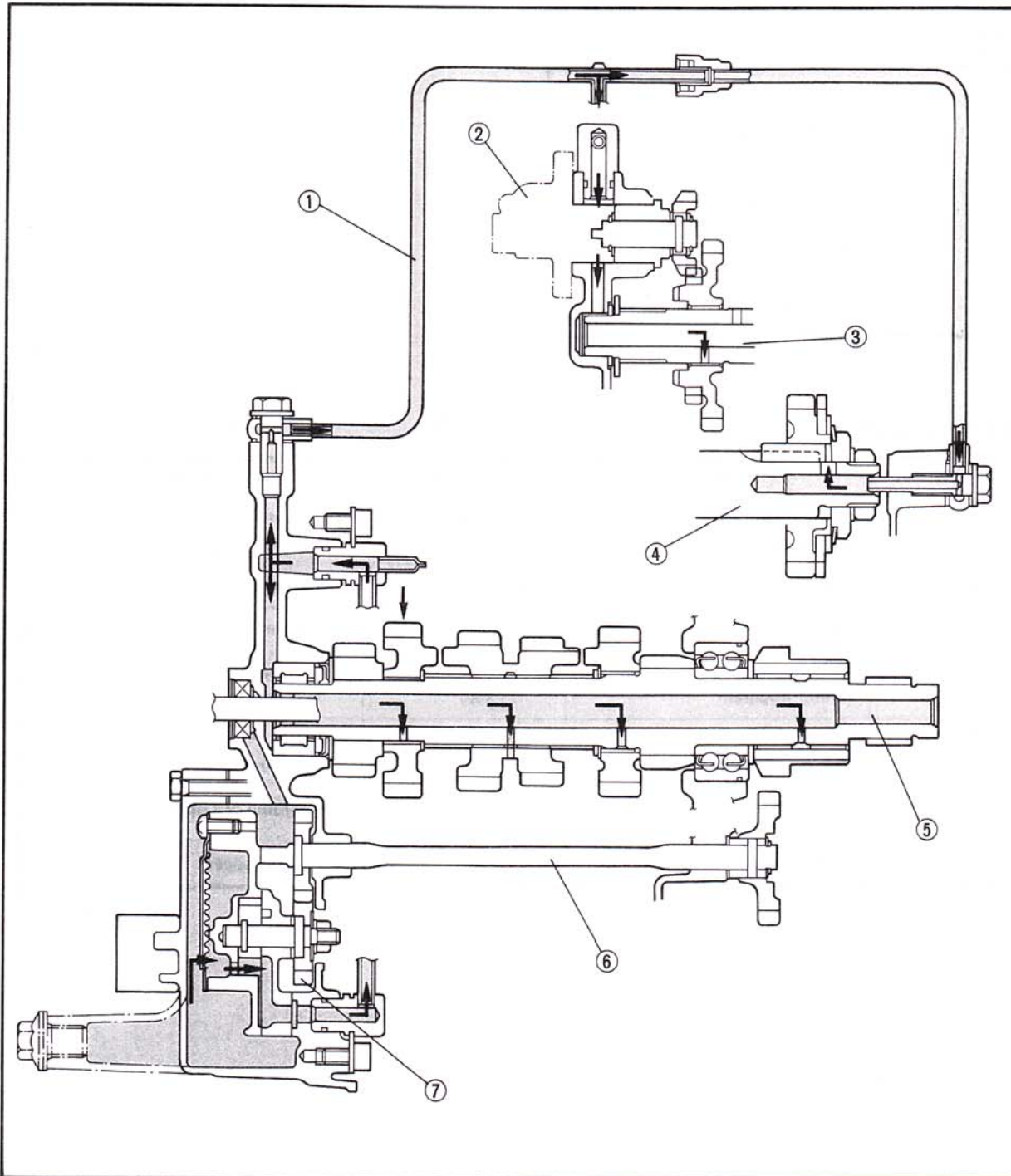


DEFINITION OF UNITS

Unit	Read	Definition	Measure
mm	millimeter	10^{-3} meter	Length
cm	centimeter	10^{-2} meter	Length
kg	kilogram	10^3 gram	Weight
N	Newton	$1 \text{ kg} \times \text{m}/\text{sec}^2$	Force
Nm	Newton meter	$\text{N} \times \text{m}$	Torque
m•kg	Meter kilogram	$\text{m} \times \text{kg}$	Torque
Pa	Paskal	N/m^2	Pressure
N/mm	Newton per millimeter	N/mm	Spring rate
L	Liter	—	Volume or Capacity
cm^3	Cubic centimeter	—	Volume or Capacity
r/min	Rotation per minute	—	Engine speed

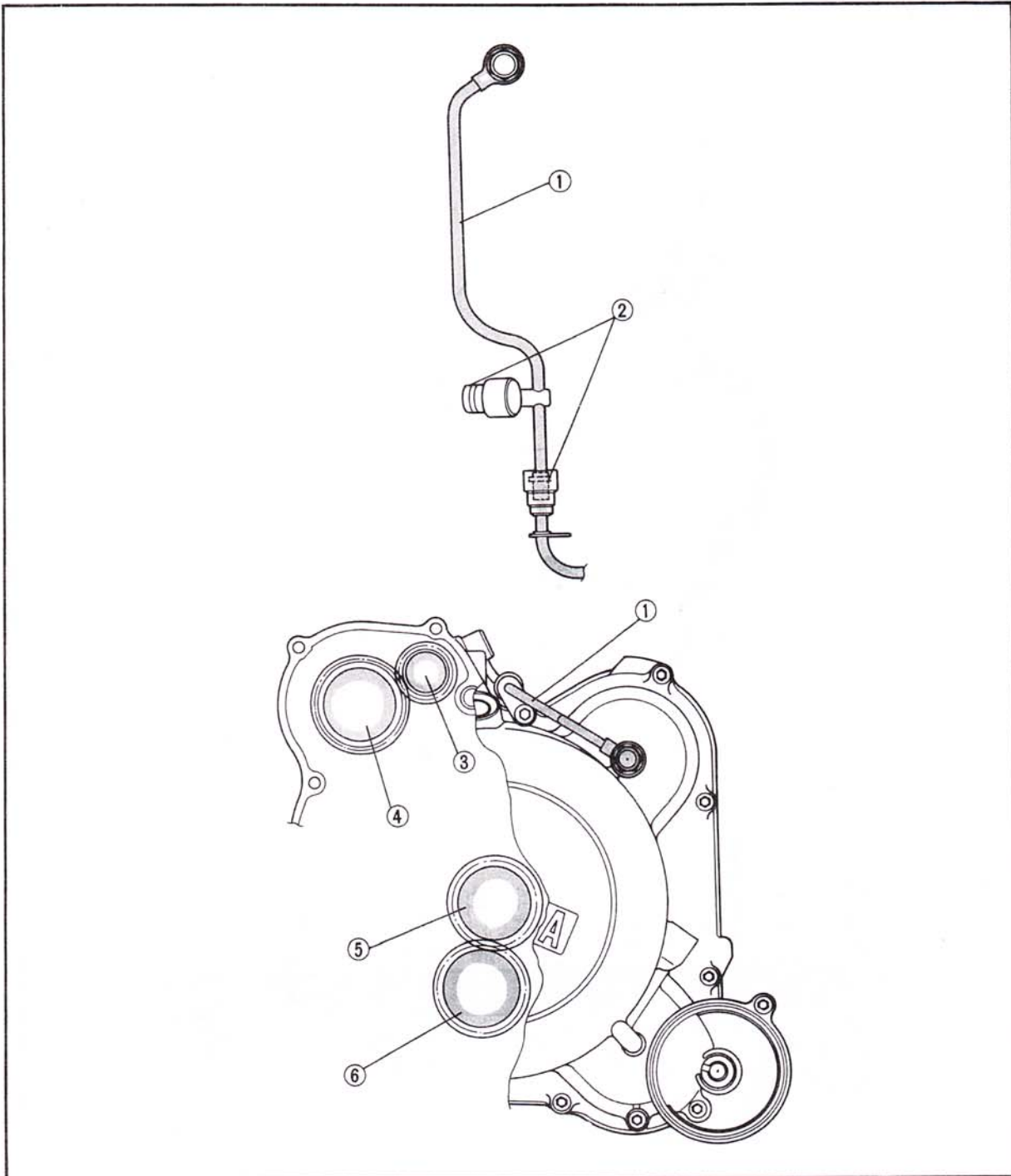
LUBRICATION DIAGRAM (1)

- 1. Delivery pipe
- 2. Oil pump (Engine oil)
- 3. Kick axle
- 4. Crankshaft (Upper)
- 5. Main axle
- 6. Oil pump drive shaft
- 7. Oil pump (Transmission oil)



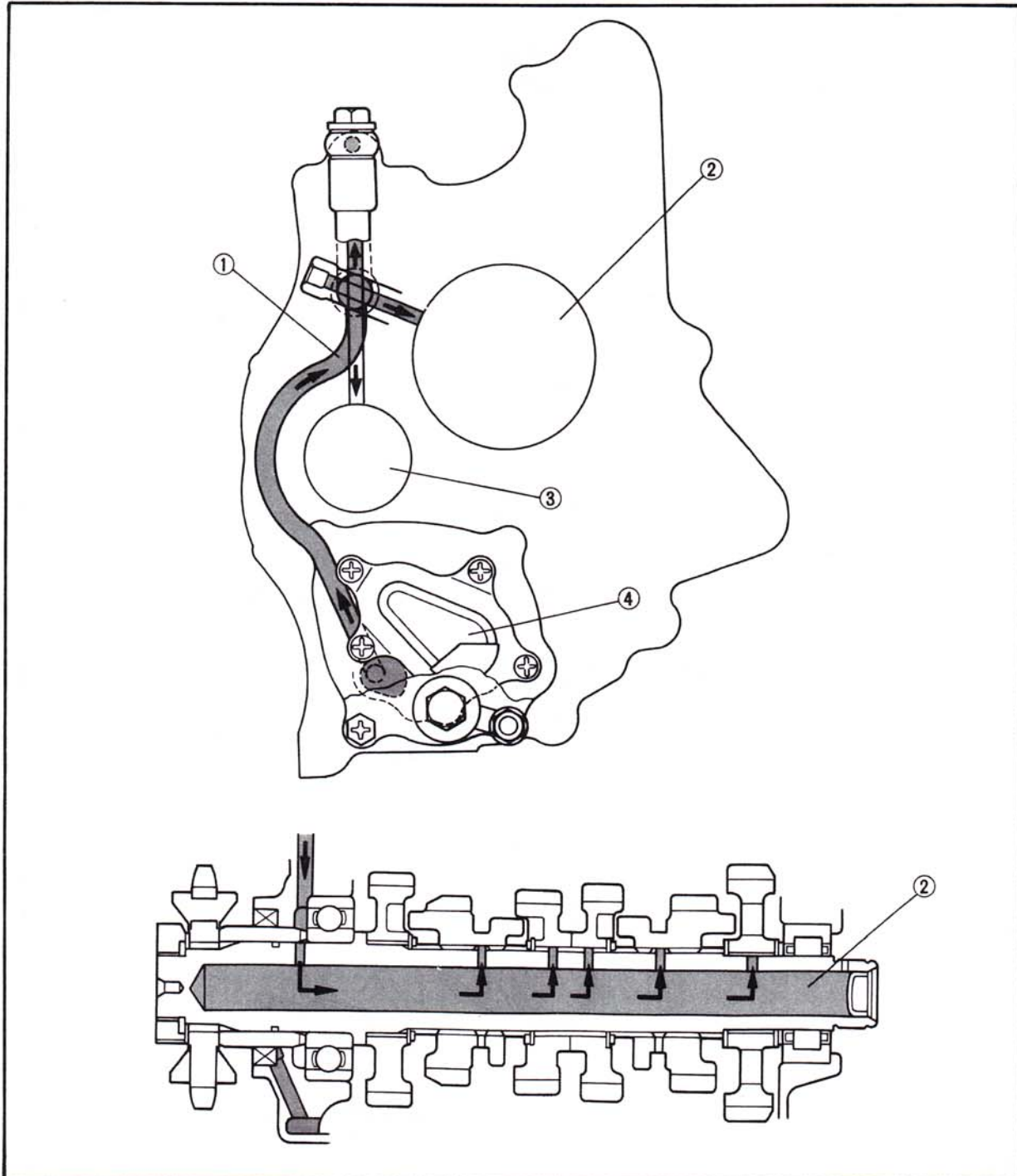
LUBRICATION DIAGRAM (2)

- 1. Delivery pipe
- 2. O-ring
- 3. Oil pump (Engine oil) drive gear
- 4. Kick gear
- 5. Oil pump (Transmission oil) drive gear
- 6. Oil pump idle gear



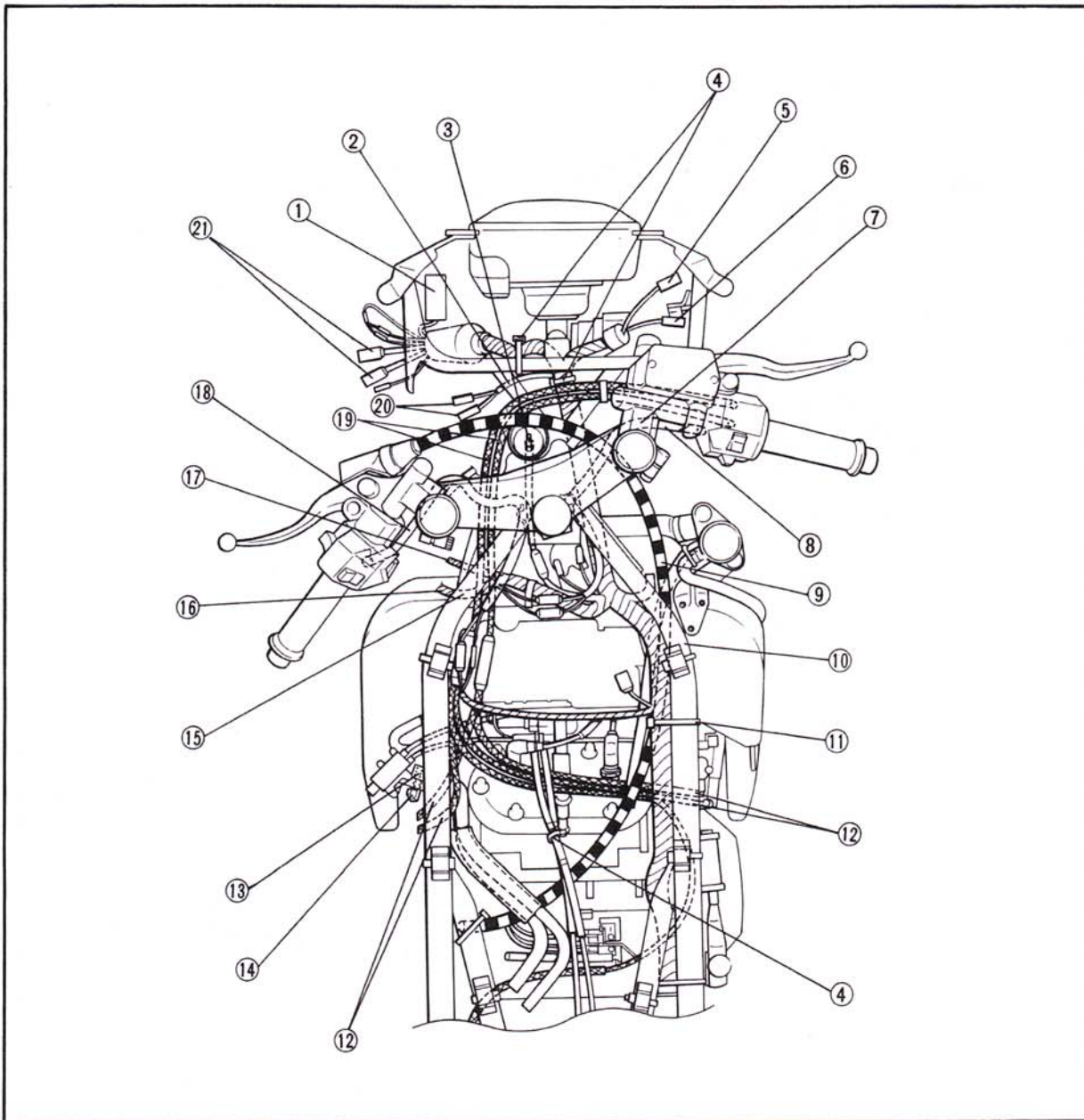
LUBRICATION DIAGRAM (3)

- 1. Delivery pipe
- 2. Drive axle
- 3. Main axle
- 4. Oil pump (Transmission oil)



CABLE ROUTING (1)

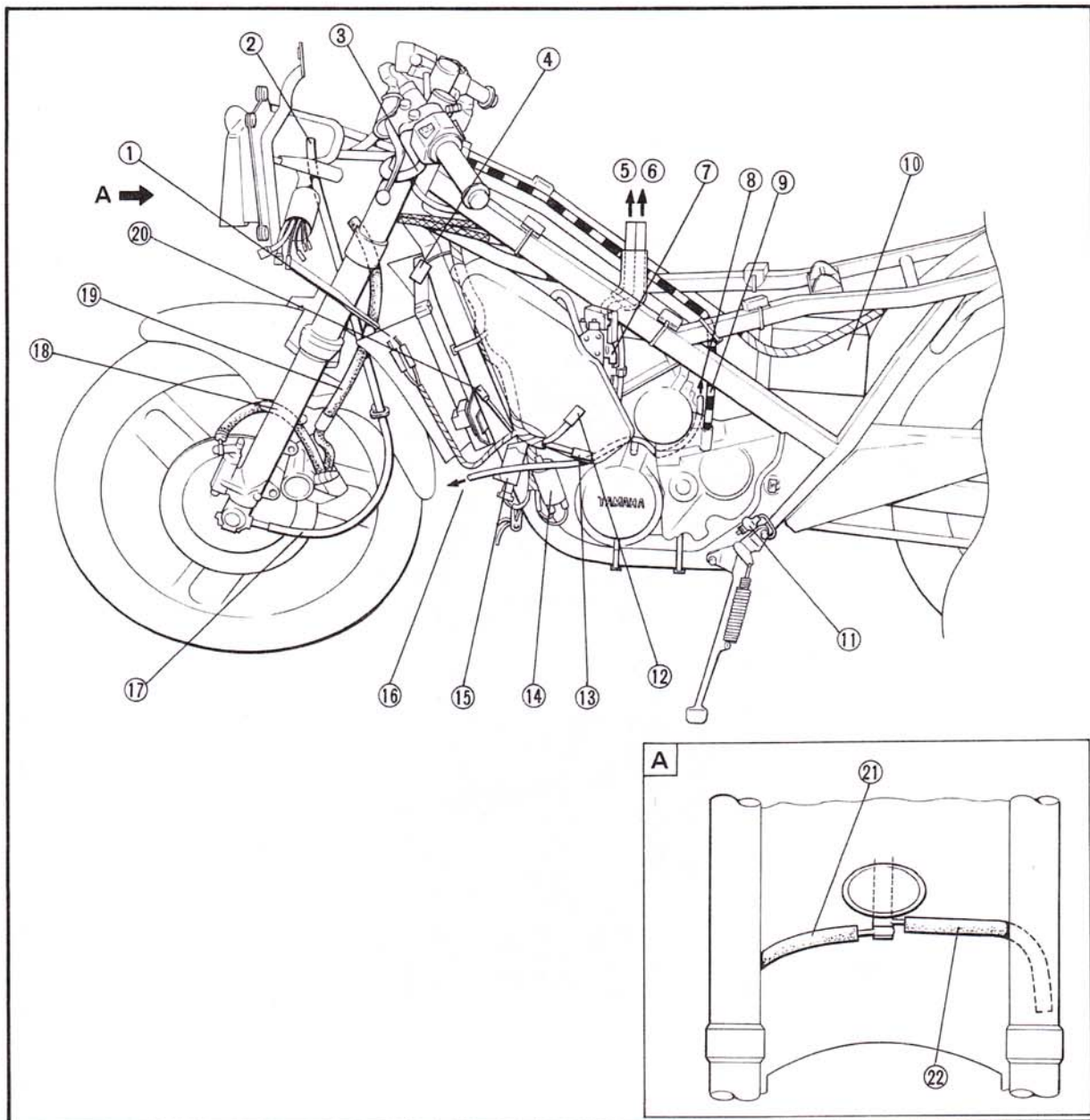
- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Flasher canceling unit 2. Pass the horn lead under the cowling stay 3. Main switch 4. Clamp 5. To fuse 6. To sub lead 7. Pass the handlebar switch lead (Right) between the front fork (Right) and head pipe. 8. Handlebar switch lead (Right) 9. Clutch cable 10. Pass the clutch cable between the tank rail and main frame support. 11. Clamp the wireharness only. | <ol style="list-style-type: none"> 12. To carburetor 13. Connect the fuel hose with the white mark to the "ON" side (Lower) of the fuel cock. 14. Connect the fuel hose without the white mark to the "RES" side (Upper) of the fuel cock. 15. Pass the lead under the main frame support. 16. To regulator and ignition coil 17. To oil tank 18. Handlebar switch lead (Left) 19. Pass the throttle cable between tank rail and main frame support. 20. To horn 21. To meter |
|---|---|





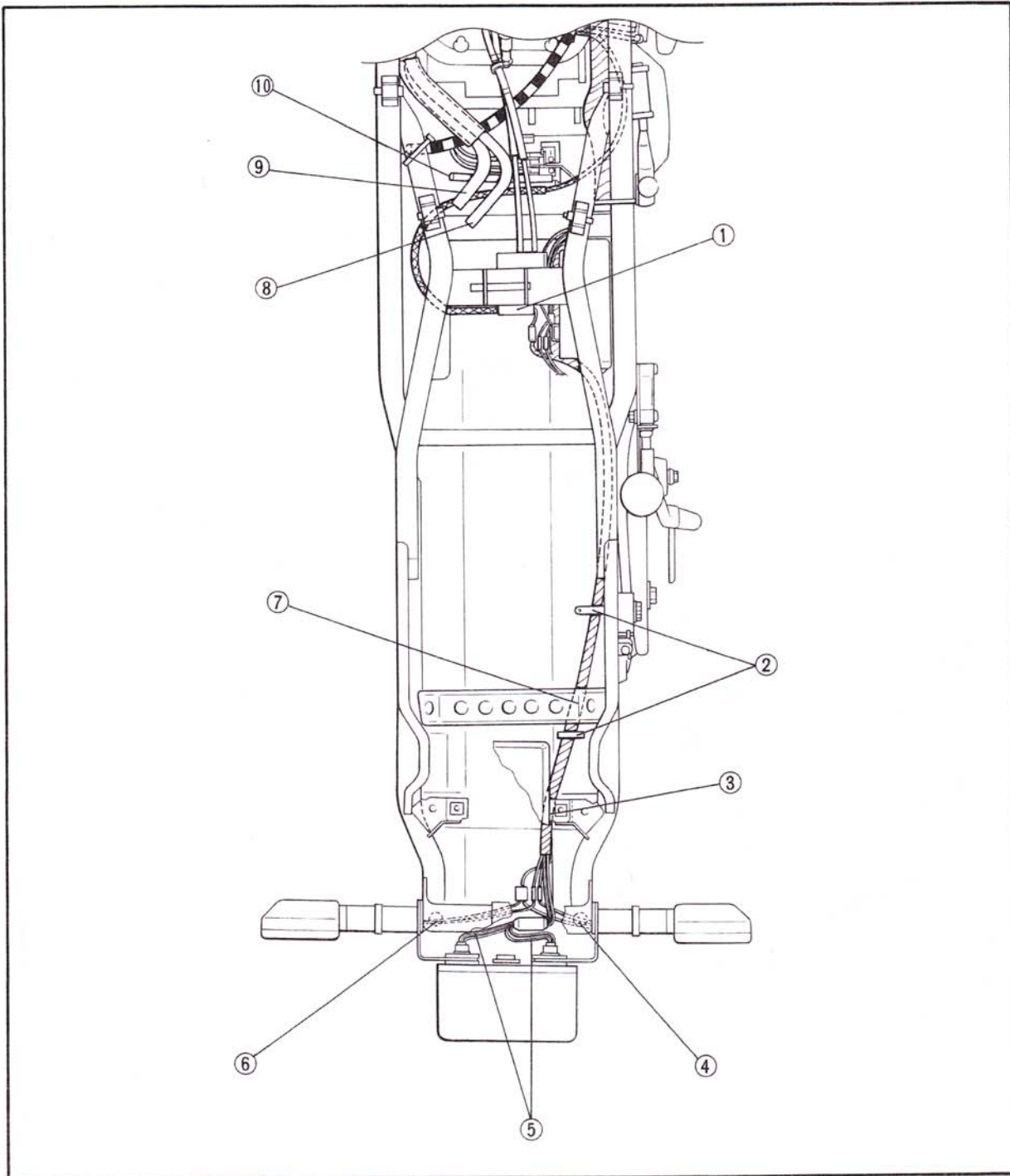
CABLE ROUTING (2)

- | | |
|--|--|
| 1. Front flasher light lead (Left) | 13. To AC magneto and generator assembly |
| 2. To speedometer | 14. Ignition coil |
| 3. Handle switch lead (Left) | 15. Rectifier/Regulator |
| 4. To oil level gauge | 16. To oil tank |
| 5. ON | 17. Speedometer cable |
| 6. RES | 18. Pass the brake hose behind the front fork. |
| 7. Fuel cock | 19. Front brake hose |
| 8. To oil pump | 20. To sidestand switch control unit |
| 9. Clutch cable | 21. Front brake hose (Right) |
| 10. Battery | 22. Front brake hose (Left) |
| 11. Sidestand switch | |
| 12. Pass the wireharness behind the radiator, then if front of the air cleaner and to the fan motor. | |



CABLE ROUTING (3)

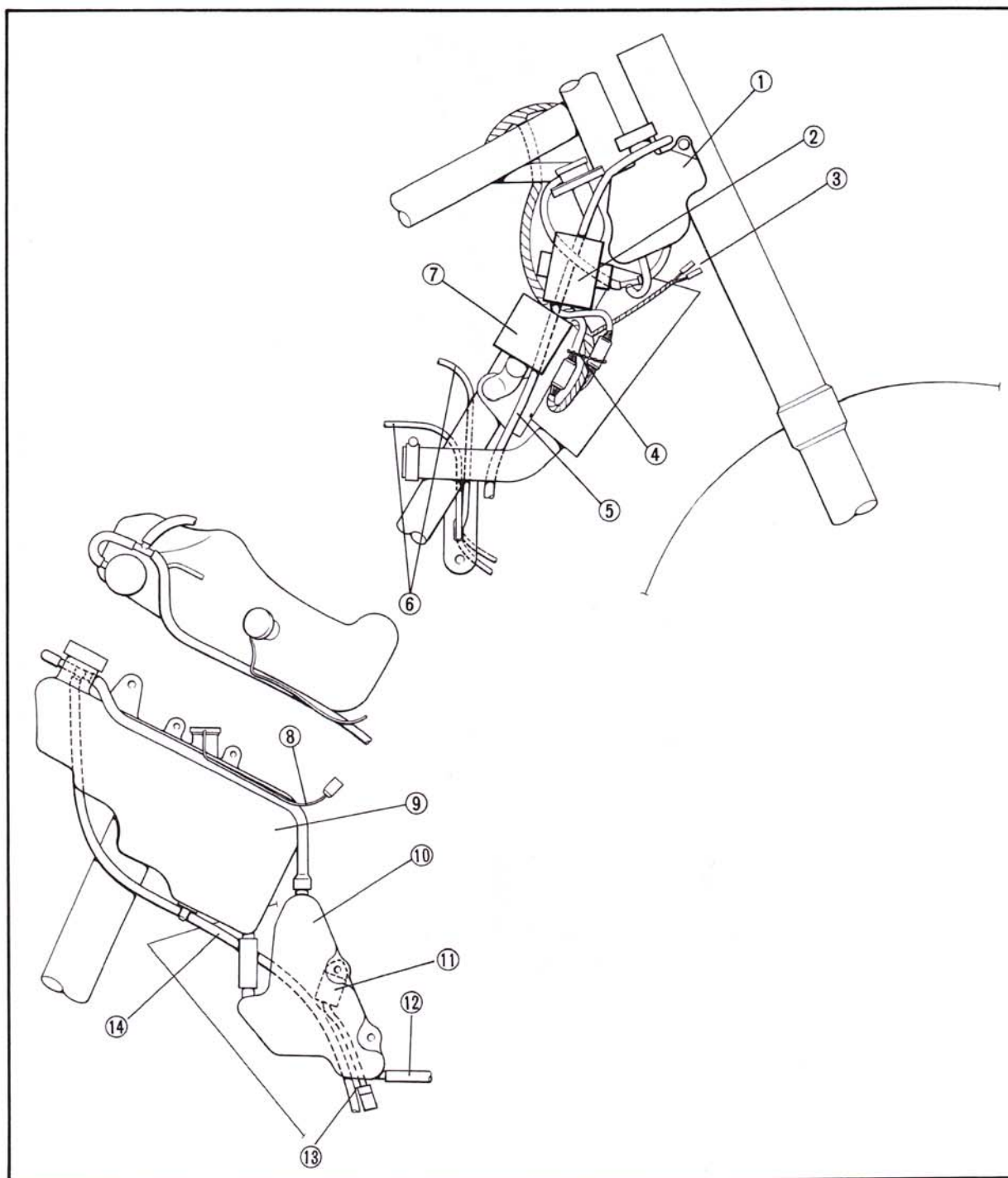
1. YPVS servo motor
2. Clamp
3. Pass the wireharness between the tool box and bracket.
4. Pass the rear flasher lead (Right) through the bracket hole.
5. Taillight lead
6. Pass the rear flasher lead (Left) through the bracket hole.
7. Pass the wireharness under the frame.
8. Connect the fuel hose without the white mark to the "RES" side of the fuel tank.
9. Connect the fuel hose with the white mark to the "ON" side of the fuel tank.
10. To oil tank





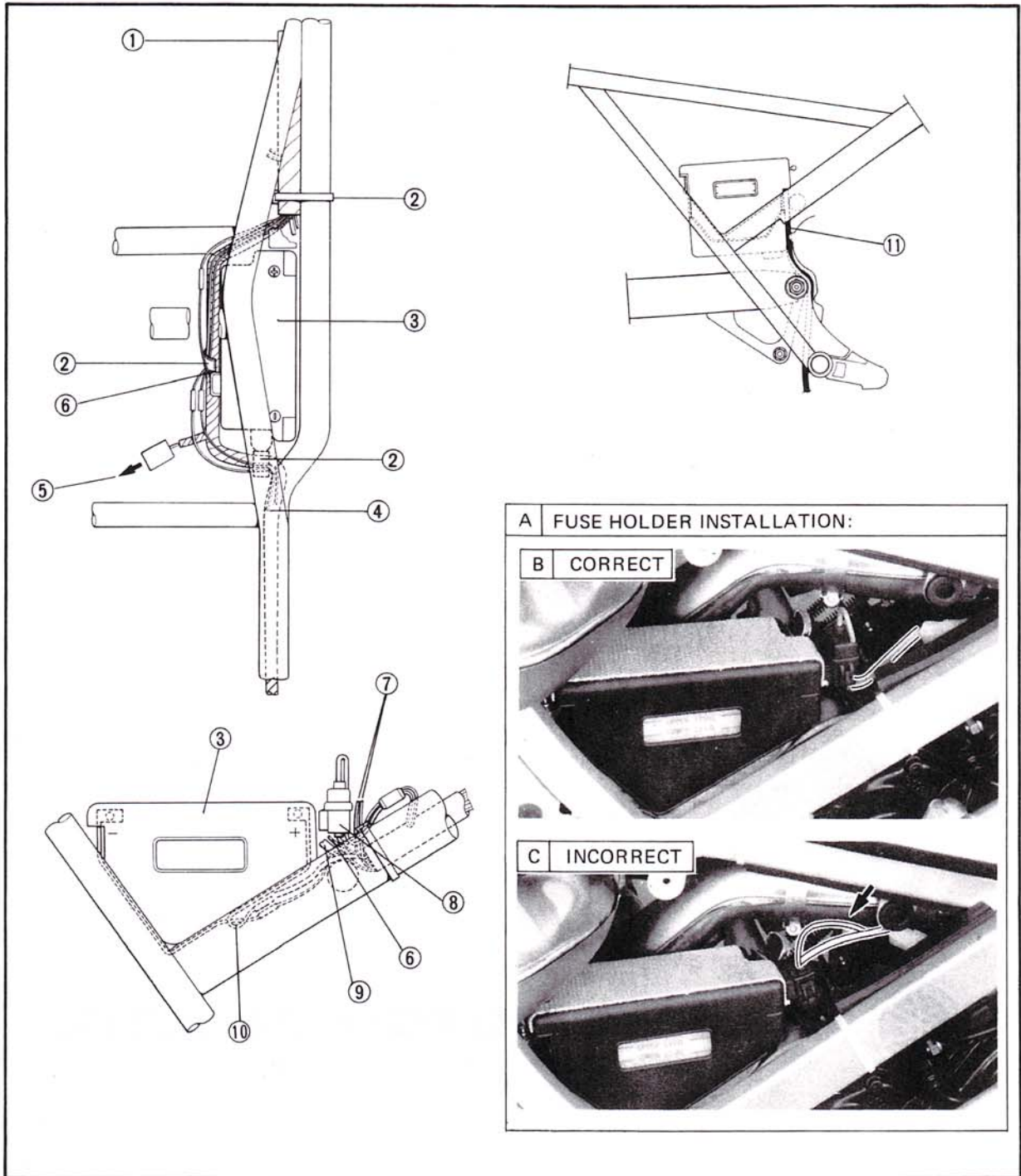
CABLE ROUTING (4)

- | | |
|---|--|
| 1. Coolant reservoir tank | 9. Oil tank |
| 2. CDI unit | 10. Sub oil tank |
| 3. Front flasher light lead (Right) | 11. Sidestand switch control unit |
| 4. Clamp | 12. Oil pipe |
| 5. Coolant reservoir tank breather pipe | 13. Sidestand switch lead |
| 6. Carburetor overflow pipe | 14. Oil tank breather pipe. Pass the pipe between the radiator cover and sub oil tank. |
| 7. YPVS control unit | |
| 8. Oil level gauge lead | |



CABLE ROUTING (5)

- 1. To main switch
- 2. Clamp
- 3. Battery
- 4. To rear brake stop switch
- 5. To YPVS servo motor
- 6. Ground lead
- 7. Rear brake stop switch lead
- 8. Fuse
- 9. To taillight
- 10. Insert the lead between the battery and frame.
- 11. Battery breather hose



A FUSE HOLDER INSTALLATION:

B CORRECT

C INCORRECT