

# S U P P L E M E N T

## XS750 – 2D

**Note:** This section only covers those points which are different from the XS 750 D.  
If the subject does not appear in this section, please refer to the Contents page.

### SPECIFICATIONS (XS750-2D Only)

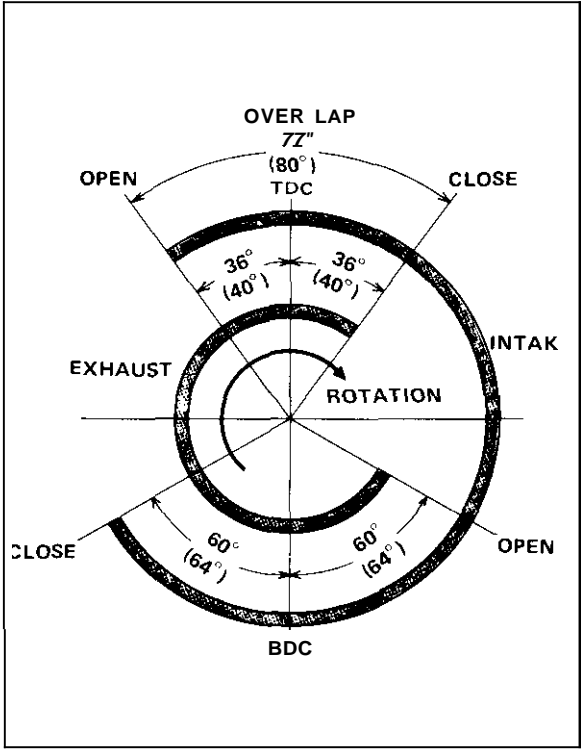
A. GENERAL SPECIFICATIONS	
Dimensions: Overall length Overall width Overall height Seat height Wheelbase Minimum ground clearance Caster (steering head angle) Trail	2,160 mm (85.0 in) 895 mm (35.2 in) 1,150 mm (45.3 in) 820 <b>mm</b> (32.3 in) 1,470 mm (57.9 in) 140 mm (5.5 in) 27° 110 mm (4.3 in)
Weight: Net	232 kg (512 <b>lb</b> )
Engine: Type Bore x stroke x cylinders Displacement Compression ratio	D.O.H.C., air-cooled, triple 68 mm x 68.6 mm x 3 747 cc 8.5 : 1
Lubrication: Lubrication system Delivery pump type	Pressure lubricated, wet sump Trocoid pump
Carburetion: Manufacture Type, I.D. No., Quantity Rated venturi size	Mikuni BS34, Constant velocity, 1J701,3pcs 34 mm

Air filter: Type	Dry foam rubber
Ignition: Type Spark plug	Battery/coil NGK BP-7ES or CHAMPION N-7Y
Charging: Type Manufacture, I.D. No. Maximum output Battery type Battery dimensions Regulator Rectifier	Three-phase, regulated alternator Hitachi LD120-02 14.5 V/18A 12V 14A-Hr. 134 x 166 x 89 mm National RD1143. IC Regulator National RD1143, Silicon, full wave
Starting	Transmission Coupled kick Mitsuba Electric SM-224C
Primary deive Type Teeth, ratio	Hy-Vo silent chain 45/27 (1.666)
Clutch	Wet, multiple disc
Transmission: Type Teeth. ratio, overall 1st 2nd 3rd 4th 5th	Constant mesh, 5-peed, drum shifter 32/13 (2.461) 13.285 27/17 (1.588) 8.636 26/20 (1.300) 7.069 23/21 (1.095) 5.955 22/23 (0.956) 5.201
Secondary Drive: Type Transmission Output: Type. teeth, ratio Middle gear case Type. teeth, ratio Final gear case Type, teeth, ratio	Shaft drive  Spur gear, 34/32, 1.063  Bevel gear, 19/18, 1.056  Bevel gear. 32/11,2.909
Chassis: Frame Suspension: Front (type, travel) Rear (type, travel) Tires: Front Rear Brakes: Front Rear Fuel tank Wheels: Front Rear	Tubular steel double cradle  Telescopicfork, 175 mm (6.9 in) Swing arm,80 mm (3.2 in)  3.25 H 19-4PR Bridgestone 4.00 H 18-4PR Bridgestone  Dual hydraulic disc Single hydraulicdisc 17.0 lit (4.5 USgal)                      leaded or unleaded  1.85 x 19 Cast Aluminum 2.15 x 18 Cast Aluminum

## B. MAINTENANCE SPECIFICATIONS

1. Engine			
Engine/Transmission oil capacity			
Total amount		3,800 cc (4.0 <b>US</b> qt)	
Oil and filter change		3,500 cc (3.7 US qt)	
Oil change		3,000 cc (3.2 US qt)	
2. Carburetion			
Manufacturer	Mikuni	Float level	26.5 ± 2.5mm (from gasket surface)
Model, I.D.No.	BS34.1J701	Pilot screw	2-1/4 turns
Main jet	No. 145	Air jet, Main	1.0 mm
Needle jet	Y-2	Air jet, Pilot	1.6 mm
Pilot jet	No. 17.5	Throttle valve,	No. 140
Starter jet	No. 25	Inlet valve size	2.0 mm
Jet needle/clip position	4H	Engine idle speed	1,050 - 1,150 rpm
Brakes			
Recommended fluid		DOT No.3	
Minimum boiling point		240°C (464°F)	
Pad thickness wear limit		6.0 mm (0.24 in)	
Brake disc maximum deflection		0.15 mm (0.006 in)	
Brake disc minimum thickness		6.5 mm (0.26 in)	
Front brake freeplay (end of lever)		5 — 8mm (0.2— 0.3 in)	
Rear brake freeplay (end of pedal)		10 mm (0.40 in)	
Front forks			
Spring <b>free</b> length		503.2 mm (19.81 in)	
Spring preload length		473.2 mm (18.63 in)	
Spring rate (0 ~ 100 mm travel)		0.5 kg/mm (28 lb/in)	
(100~175 mm travel)		0.648 kg/mm (36.3 lb/in)	
Fork oil capacity (each side)		200 cc (6.76 US fl.oz.)	
Rear shock absorbers			
Spring free length		256 mm (10.08 in)	
Spring preload length		228 mm (9.0 in)	
Spring rate (0~45mm travel)		1.9 kg/mm (106 lb/in)	
(45~80 mm travel)		2.52 kg/mm 1141.1 lb/in)	
4. Electrical			
Ignition timing retarded		10°@1.100 rpm	
advanced		28.5°±1.5°@3.050±150rpm	
advance starts		1,800±100 rpm	
Spark plug cap resistance		4.25~6.0 K ohms	
Regulator type		National RD1143	
Regulated voltage		14.5±0.3V	
Lighting			
Headlight		Sealed beam 12V, 50/40W	
Taillight/stoplight		12V. 8/27W (two bulbs)	
Flasher light		12V. 27W (four bulbs)	
Flasher pilot light		12V. 3.4W (two bulbs)	
Meter lights		12V. 3.4W (two bulbs)	
High beam indicator light		12v. 3.4W	
Oil pressure warning light		12v. 3.4w	
Neutral light		12v. 3.4w	

Valve Timing (XS750D, XS750-2D)



Specifications in parentheses ( ) are for XS 750-2D. Specifications without parentheses are for XS750D.

	Open	Close	Over Lap
Intake	36° (40°) BTDC	60° (64°) ABDC	72°
Exhaust	60° (64°) BBDC	36° (40°) ATDC	(80°)

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**A. Maintenance Intervals For New Machines (XS750D, XS750-2D)**

<p>Initial 400Km (250miles):</p> <ul style="list-style-type: none"> <li>Cam chain adjustment</li> <li>Spark plug inspection</li> <li>Wheel, tire inspection</li> <li><b>Fuel</b> petcock cleaning</li> <li>Battery maintenance</li> <li>Lights, signals check</li> <li>Fittings, fasteners tightening</li> <li>Brake system inspection</li> </ul> <p>Initial 800km (500miles):</p> <ul style="list-style-type: none"> <li>Carburetor adjustment</li> <li>Brake system inspection</li> <li>Wheel, tire inspection</li> <li>Battery maintenance</li> <li>Ignition timing check</li> <li>Lights, signals check</li> <li>Fittings, fasteners tightening</li> <li>Clutch adjustment</li> <li>Steering head adjustment</li> </ul>	<p>Initial 1,600km (1,000miles):</p> <ul style="list-style-type: none"> <li>Air filter cleaning</li> <li>Brake system inspection</li> <li>Wheel, tire inspection</li> <li>Fuel petcock cleaning</li> <li>Battery maintenance</li> <li>Lights, signals check</li> <li>Fittings, fasteners tightening</li> </ul> <p>Initial 3.200km(2,000miles):</p> <ul style="list-style-type: none"> <li>Clutch adjustment</li> <li>Cylinder cornpression check</li> <li>Valve clearance check</li> <li>Cylinder head torque check</li> <li>Cam chain adjustment (4,800km or 3,000miles)</li> <li>Spark plugs inspection and cleaning</li> <li>Carburetor adjustment</li> <li>Brake system inspection</li> <li>Wheel, tire inspection</li> <li>Battery maintenance</li> <li>Ignition timing adjustment</li> <li>Lights, signals check</li> <li>Fittings, fasteners tightening</li> </ul>
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**B. Routine Maintenance intervals (XS750D, XS750-2D)**

<p><b>Every 1,600km (1,000miles):</b></p> <ul style="list-style-type: none"> <li>Air filter cleaning</li> <li>Brake system inspection</li> <li>Wheel, tire inspection</li> <li>Battery maintenance</li> <li>Lights, signals check</li> <li>Fittings, fasteners tightening</li> </ul> <p><b>Every 3,200km (2,000miles):</b></p> <ul style="list-style-type: none"> <li>Spark plug inspection</li> <li>Carburetor adjustment</li> <li>Fuel petcock cleaning</li> <li>Ignition timing check and adjustment</li> <li>Clutch adjustment</li> </ul>	<p><b>Every 6,400km (4,000miles):</b></p> <ul style="list-style-type: none"> <li>Cylinder compression check</li> <li>Valve clearance check and adjustment (9,600km or 6,000miles)</li> <li>Cylinder head torque check</li> <li>Cam chain adjustment (4,800km or 3,000miles)</li> <li>Steering head adjustment</li> <li>Swing arm bearing adjustment</li> </ul>
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C. Lubrication Intervals For New Machines (XS750D, XS750-2D)

<p>Initial 400km (250miles):</p> <p>Replace engine/transmission oil</p> <p>Replace oil filter</p> <p>Replace middle/final(rear)gear oil</p> <p>Lubricate throttle griphousing</p> <p>Check brake fluid</p> <p>Initial 800km (500miles):</p> <p>Check brake fluid</p> <p>Initial 1,600km (1,000miles)</p> <p>Check brake fluid</p>	<p>Initial 3,200km (2,000miles):</p> <p>Replace engine/transmission oil (2,400km or 1,500miles)</p> <p>Lubricate control/meter cables</p> <p>Lubricate throttle grip/housing</p> <p>Check brake fluid</p> <p>Replace front fork oil</p> <p>Replace oil filter (4,800km or 3,000miles)</p> <p>Replace steering bearing grease</p> <p>Lubricate speedometer gear housing</p>
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D. Routine Lubrication Intervals (XS750D, XS750-2D)

<p>Every 1,600km (1,000miles):</p> <p>Check brake fluid</p> <p>Every 3,200km (2,000miles):</p> <p>Lubricate control/meter cables</p> <p>Lubricate point cam lubrication wicks</p> <p>Every 4,800km (3,000miles):</p> <p>Replace engine/transmission oil</p> <p>Every 6,400km (4,000miles):</p> <p>Lubricate throttle grip/housing</p> <p>Replace front fork oil</p> <p>Lubricate speedometer gear housing</p>	<p>Every 9,600km (6,000miles):</p> <p>Replace oil filter</p> <p>Replace middle/final (rear) gear oil</p> <p>Every 12,800km (8,000miles):</p> <p>Replace steering bearing grease</p> <p>Replace rear arm pivot bearing grease</p> <p>Replace wheel bearing grease</p>
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**NOTE:** \_\_\_\_\_

Brake fluid replacement:

1. When disassembling the master cylinder or caliper cylinder, replace and bleed the air from the brake fluid. Normally check the brake fluid level and add the fluid as required.
2. Replace the master cylinder and caliper cylinder internal seals every two years.
3. Replace the brake hoses every four years, or if cracked or damaged.

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E. Recommended Lubricants (XS750D, XS750-2D)

Middle/Final (rear) gear	3. SAE 80,API "GL-4"Hypoid gear oil, for use below 15°C (41°F)
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## Torque Specifications

Engine:		
Spark plug	2.0 m-kg	(14 ft-lb)
Cam cap nut	0.9 m-kg	( 7 ft-lb)
Rod cap	3.8 m-kg	(27 ft-lb)
Starter clutch bolt	3.0 m-kg	(22 ft-lb)
Shift cam locating bolt	1.7 m-kg	(12 ft-lb)
Detent assembly	4.3 m-kg	(31 ft-lb)
Transmission bearing caps	2.0 m-kg	(14 ft-lb)
Crankshaft bolts     8 mm	2.0 m-kg	(14 ft-lb)
10 mm	3.7 m-kg	(27 ft-lb)
Clutch holding nut	12.0 m-kg	(87 ft-lb)
Clutch spring screws	0.9 m-kg	( 7 ft-lb)
Middle gear case mounting screws	2.3 m-kg	(17 ft-lb)
Rotor holding bolt	3.5 m-kg	(25 ft-lb)
Bearing housing bolt	2.2 m-kg	(16 ft-lb)
Oil pipe union bolt	2.1 m-kg	(15 ft-lb)
Oil pump drive gear nut	10.0 m-kg	(72 ft-lb)
Crankshaft turning nut	2.3 m-kg	(17 ft-lb)
Cylinder head     8 mm	2.0 m-kg	(14 ft-lb)
10 mm	3.5 m-kg	(25 ft-lb)
Cylinder holding nuts	2.0 m-kg	(14 ft-lb)
Camshaft cap nuts	1.0 m-kg	( 7 ft-lb)
Engine mounting bolts     10 mm	5.5 m-kg	(40 ft-lb)
12 mm	9.5 m-kg	(69 ft-lb)
Engine oil drain plug	4.3 m-kg	(31 ft-lb)
Oil filter mounting bolt	3.2 m-kg	(23 ft-lb)
Middle gear drain plug	4.3 m-kg	(31 ft-lb)
Final gear assembly mounting nuts	4.0 m-kg	(29 ft-lb)
Chassis		
Front axle nut	10.7 m-kg	(77 ft-lb)
Front axle holder nuts	2.0 m-kg	(14 ft-lb)
Rear axle nut	15.0 m-kg	(108 ft-lb)
Rear axle pinch bolt	0.6 m-kg	( 4 ft-lb)
Rear shock absorber     (Top)	3.5 m-kg	(25 ft-lb)
(Bottom)	4.0 m-kg	(29 ft-lb)
Brakes		
Caliper support bolt	1.8 m-kg	(13 ft-lb)
Caliper mounting bolt	3.5 m-kg	(25 ft-lb)
Brake hose union bolt	2.6 m-kg	(19 ft-lb)
Disc mounting bolt	2.0 m-kg	(14 ft-lb)
Front fork pinch bolt	1.8 m-kg	(13 ft-lb)
Steering stem top bolt	8.6 m-kg	(62 ft-lb)
Swing arm pivot lock nut	10.0 m-kg	(72 ft-lb)
Rear shock absorber nut	3.0 m-kg	(22 ft-lb)

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- C. Engine/Transmission oil (XS750-2D)
2. Engine/Transmission oil and oil filter replacement.
  - g. Add oil through the dip stick hole. Specifications should be changed as follows:

Oil quantity: Periodic Oil Change
3.0 liter (3.3 US qt)
With oil filter change
3.5 liter (3.7 US qt)

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- D. Middle Gear/Final Gear Oil (XS750D, XS750-2D)
2. Gear oil replacement
  - d. Fill the gear case(s) up to specified level. Specifications should be changed as follows:

Oil Capacity:
Middle gear case: 375cc(12.7 U.S. fl oz)
Final gear case: 300cc(10.0 U.S. fl oz)

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- F. Cam Chain Adjustment (XS750-2D)
- The cam chain tensioner stopper bolt is located on the right (inboard) side of the tensioner boss.

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- H. Compression Pressure Measurement (XS750D, XS750-2D)
- Procedure 5.
- Specifications should be changed as follows:

Compression pressure: (at sea level)
Standard: 10 kg/cm <sup>2</sup> (142 psi)
Minimum: 9 kg/cm <sup>2</sup> (128 psi)
Maximum: 11 kg/cm <sup>2</sup> (156 psi)

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- C. Front And Rear Brake (XS750D, XS750-2D)
1. Brake adjustment
  - a. Front brake lever free play
- The front brake lever should be so

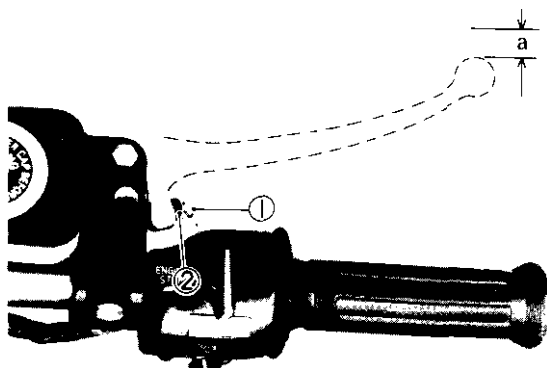
adjusted that it has a free play 5 ~ 8mm (0.2 ~ 0.3 in) at the lever end.

- 1) Loosen the locknut on the brake lever.
- 2) Turn the adjustor so that the brake lever movement at the lever end is 5 ~ 8 mm (0.2 ~ 0.3 in) before the adjustor contacts the master cylinder piston.
- 3) After adjusting, tighten the locknut.

**NOTE:**

Check for correct play and make it is working properly.

Free play: 5 ~ 8 mm (0.2 ~ 0.3 in)
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1. Adjustor  
2. Locknut  
a. 5 ~ 8 mm (.02 ~ 0.3in)

- b. Rear brake pedal free play

**CAUTION:**

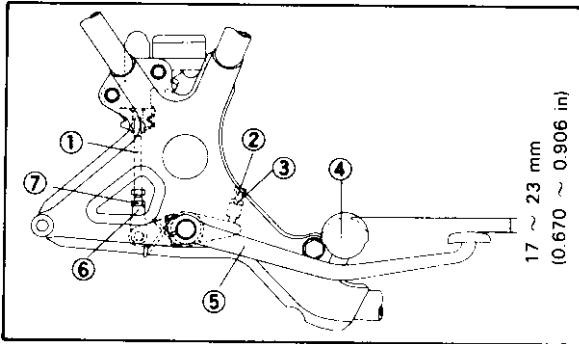
Proper pedal free play is essential to avoid excessive brake drag.

- 1) Loosen the adjustor locknut (for pedal height).
- 2) By turning the adjustor bolt clockwise or counterclockwise, adjust the brake pedal position as shown in the illustration.
- 3) Secure the adjustor locknut.
- 4) Loosen the brake rod adjustor locknut.
- 5) Turn in the brake rod until it lightly touches the master cylinder, then turn it out by approx. 1-½ ~ 1-¾ turns.



**NOTE:**

See that the punched mark on the brake rod is not above the top surface of the adjustor locknut in securing the brake rod adjustor locknut.



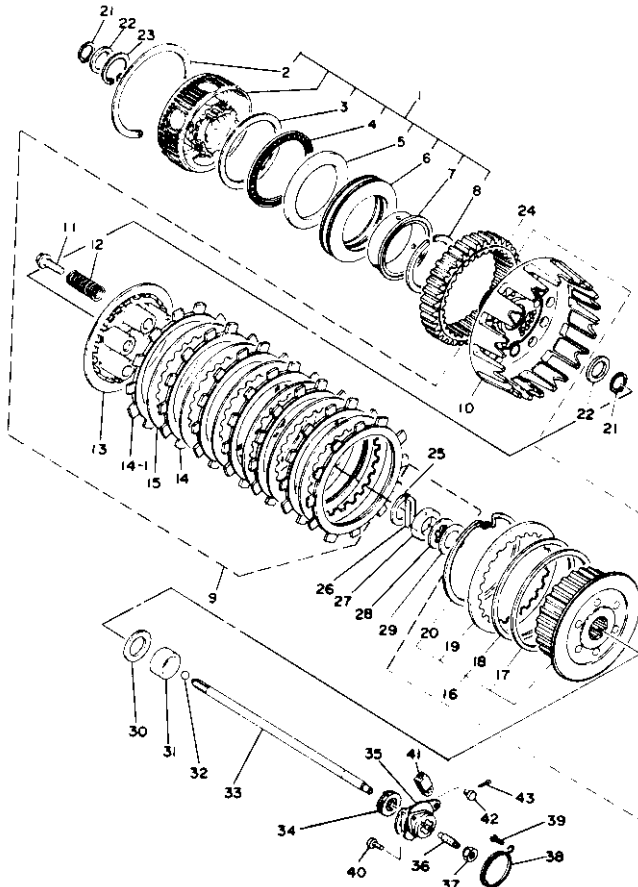
- |                                     |                |
|-------------------------------------|----------------|
| 1. Brake rod                        | 4. Footrest    |
| 2. Adjustor bolt (for pedal height) | 5. Brake pedal |
| 3. Locknut                          | 6. Joint       |
|                                     | 7. Locknut     |

**(PAGE 86~90)****5-3. BRAKES (XS750D, XS750-2D)**

The shim in the caliper is no longer used, and a set of two pad springs has been changed into a one piece type.

**(PAGE 37)****C. Muffler, Footrest, Brake Pedal (XS750-2D Only)**

The muffler has been changed from 3 into 1 to 3 into 2.

**(PAGE 68)****XS750D, XS750-2D**

- 1 Damper assembly
- 2 Circlip
- 3 Plate washer (76-95-0.8)
- 4 Bearing
- 5 Plate washer (69-95-5.4)
- 6 Damper spring
- 7 Collar
- 8 Circlip
- 9 Clutch assembly
- 10 Clutch housing complete
- 11 Screw
- 12 Compression spring
- 13 Pressure plate
- 14 Friction plate
- 14-1 Friction plate (cork lining)
- 15 Clutch plate 1
- 16 Clutch boss assembly
- 17 Seat plate
- 18 Clutch boss spring
- 19 Clutch plate 2
- 20 Circlip
- 21 Circlip (S-20)
- 22 Plate washer (21.2-29.2)
- 23 Circlip
- 24 Primary driven gear (45T)
- 25 Plate washer (22-36-2.6)
- 26 Push rod 1
- 27 Hexagon nut
- 28 Lock washer
- 29 Conical spring washer
- 30 Plate washer (25.2-39-1.0)
- 31 Spacer
- 32 Ball (5/16 inch)
- 33 Push rod
- 34 Oil seal (SD-8-25.8)
- 35 Ball screw assembly
- 36 Adjusting screw
- 37 Adjusting nut
- 38 Torsion spring
- 39 Spring hook
- 40 Pan head screw
- 41 Joint
- 42 Pin
- 43 Cotter pin

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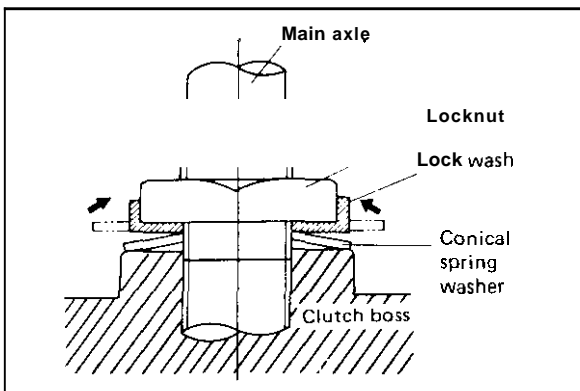
**G. Clutch and Primary Drive (XS750D, XS750-2D)**

1. Install clutch spacer, plate washer, and clutch boss. Install the spring washer, lock washer and locknut. Use the clutch holding tool and special 32mm deep socket (special tool) to tighten the clutch nut.

**NOTE:** \_\_\_\_\_

Bend over locking tab after locknut is tightened.

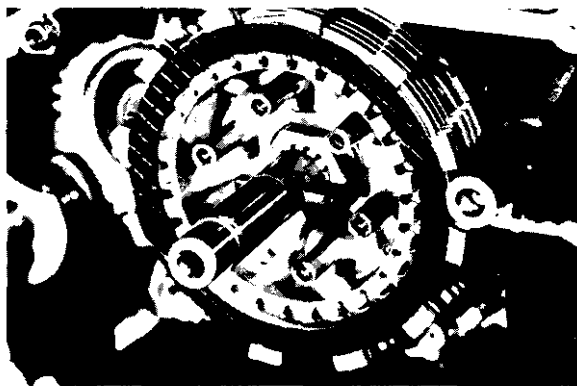
Clutch nut torque:  
12.0 m·kg (87 ft·lb)



2. Install a clutch friction plate, then a steel clutch plate. Install clutch friction plates and steel plates alternately.

**NOTE:** \_\_\_\_\_

Each steel clutch plate has a tab. There is a dot on the clutch boss to correspond to each tab. Install a clutch plate tab next to one dot. Position the next steel plate next to the next dot on the clutch boss. Follow this pattern clockwise around the clutch boss until all friction and steel clutch plates are installed. In this case, the friction plate with cork lining should be installed on the extreme outside.



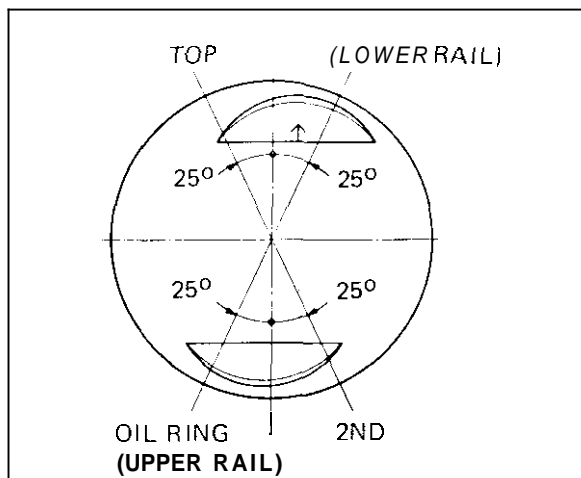
**(PAGE 73)**

**N. Piston and Cylinder (XS750D, XS750-2D)**

4. Position piston rings as shown.

**NOTE:** \_\_\_\_\_

- 1) Make sure ends of oil ring expanders are not overlapped.
- 2) Manufacturer's marks or numbers stamped on the rings are on the top side of the rings. Coat pistons and rings well with oil.



5. Install the cylinder. A ring compressor is usually not necessary.

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**P. Camshaft installation**

Delete the following sentences.

**NOTE:** \_\_\_\_\_

Manufacturer's marks or numbers stamped on the rings are on the top side of the rings. Coat pistons and rings well with oil.

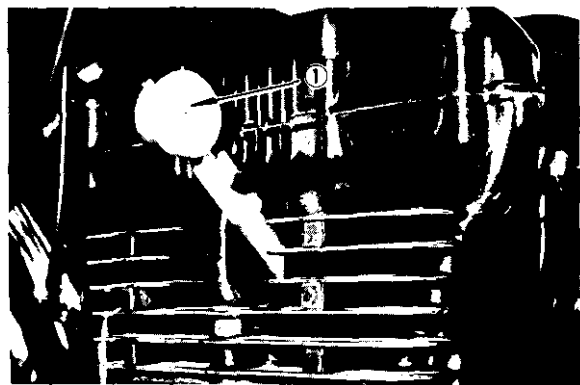
5. Install the cylinder. A ring compressor is usually not necessary.

### 3-6. TIMING PLATE SETTING (XS750D, XS750-2D)

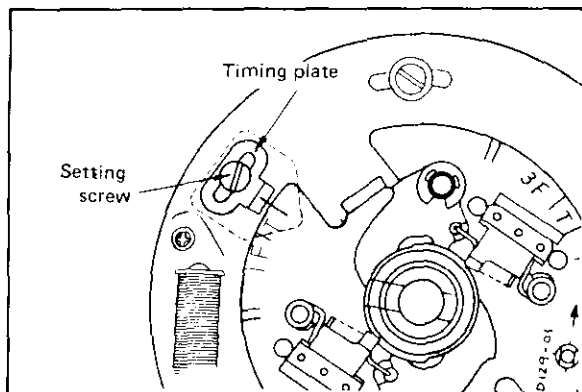
#### A. Timing plate setting

Adjustments required when the following parts are replaced; crankcase, crankcase cover (left side) governor assembly and/or crankshaft.

1. Install the governor and breaker plate assembly on the crankcase cover (left side).
2. Install the dial gauge in the spark plug hole in the left cylinder (No.1 cylinder). The dial gauge stand (special tool) is required.
3. By turning the crankshaft counter-clockwise slowly, locate T.D.C. on the power stroke in the left cylinder (No. 1 cylinder).
4. Align the timing plate tip with the "T" mark on the governor for the left cylinder (No. 1 cylinder). Lock the timing plate setting screw with paint.
5. For the subsequent operations, follow the procedure described "2-5. C. Ignition Timing".



1. Dial gauge



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#### 4-1. CARBURETOR (XS750-2D)

#### B. Specifications

Specification should be changed as follow:

Starter jet: #25

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#### 5-2. REAR WHEEL (XS750-2D Only)

#### A. Removal

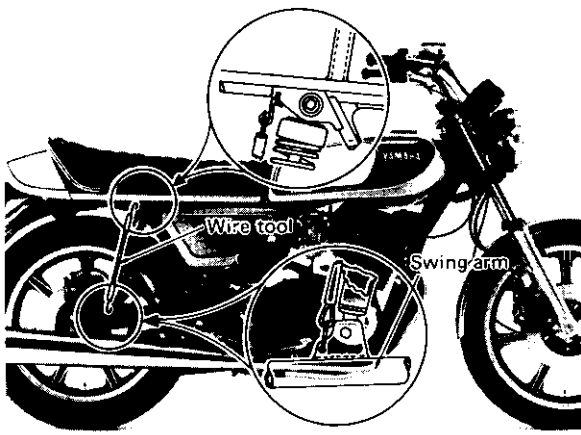
1. Place machine on side stand and remove left rear shock absorber.

NOTE: \_\_\_\_\_

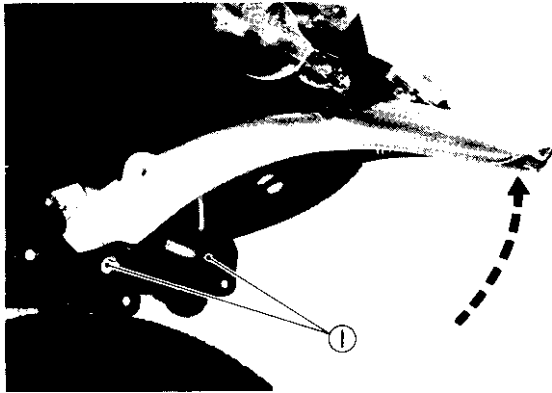
When reinstalling rear shock absorber, tighten to following torque:

Top mount:	3.5 m-kG (25 ft-lb)
Bottom mount:	4.0 m-kG (29 ft-lb)

2. Hook one end of the wire tool to the hook attached to the frame.
3. Apply your weight to the rear part of the seat, and contract the rear shock absorber by pulling up the right side of the swing arm with your hand, then connect the free end of the wire tool to the swing arm as shown.
4. With the wire tool in this position, pull machine onto center stand.

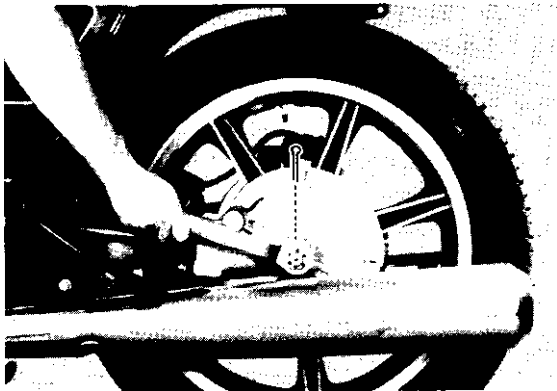


5. Raise the seat and unscrew the rear fender installation bolts until their threaded portion is completely out. Reinsert those bolts as stoppers while holding the rear fender.

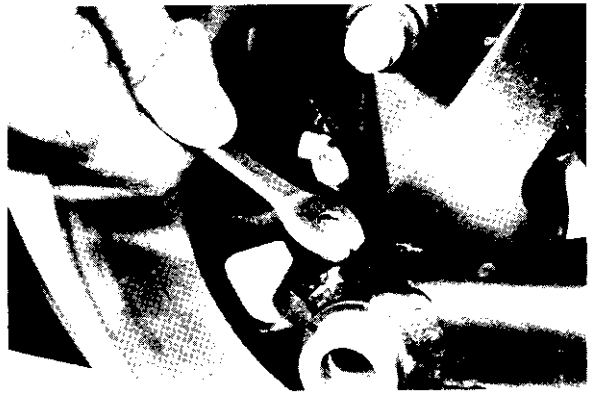


1. Installation bolts

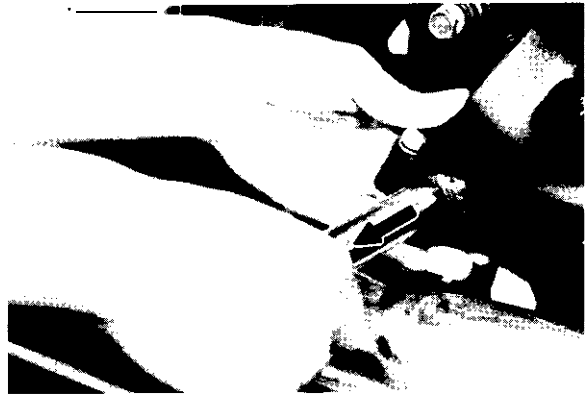
6. Remove the axle nut cotter pin and the axle nut.



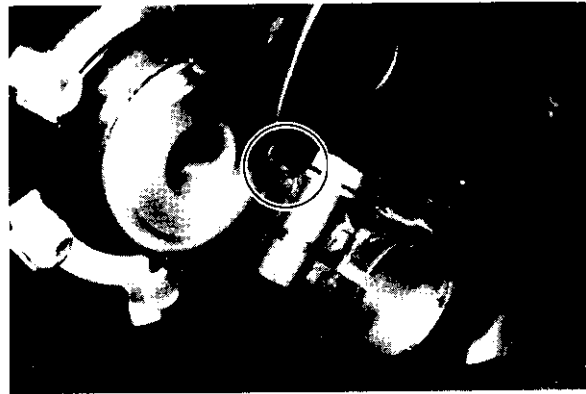
7. Loosen the rear axle pinch bolt.



8. While supporting the brake caliper, pull out the rear axle.



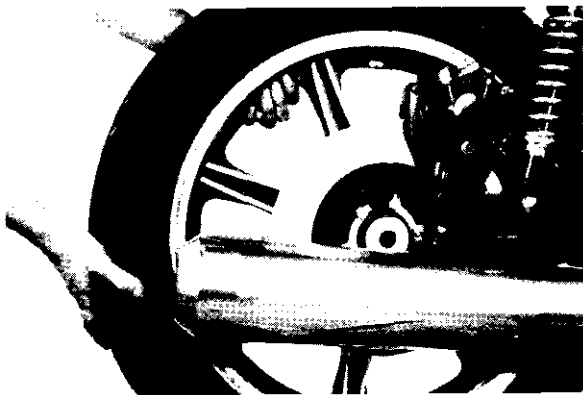
9. Hold up the brake caliper assembly and place it on the hook of the rear arm.



10. Move the wheel to the right side to separate it from the final gear case and remove the rear wheel.

**NOTE:** \_\_\_\_\_

Do not depress the brake pedal when the wheel is off the machine so that the caliper piston is not forced out of the cylinder.



11. To install the rear wheel, reverse the removal procedure.

#### NOTE:

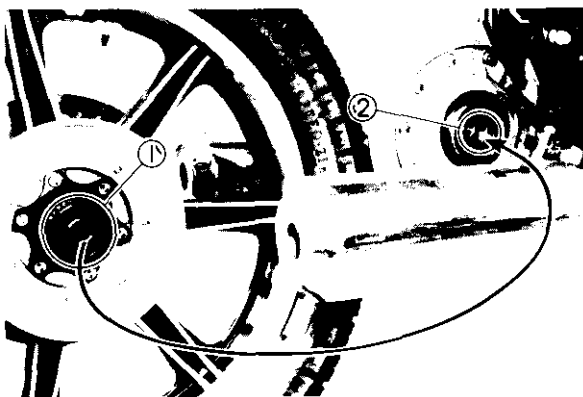
When installing the rear wheel, be sure the splines on the wheel hub fit into the final gear case. Make sure there is an enough gap between the disc pads for the brake disc.

#### CAUTION:

Always use a new cotter pin when re-assembling rear axle nut.

Tightening torque:

Axle nut: 15.0 m·kg (108 ft·lb)  
Axle pinch bolt: 0.60 m·kg (4 ft·lb)



1 Rear wheel hub splines

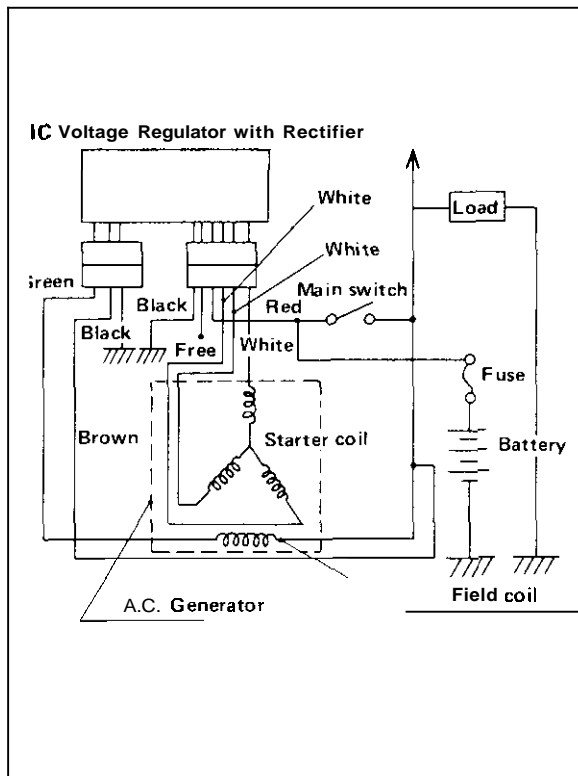
2. Final gear case splines

## 6-2. CHARGING SYSTEM (XS750-2D Only)

### A. Charging Circuit Diagram

#### NOTE:

Rectifier is combined with the Voltage Regulator in the same housing.



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### C. Voltage Regulator (XS750-2D Only)

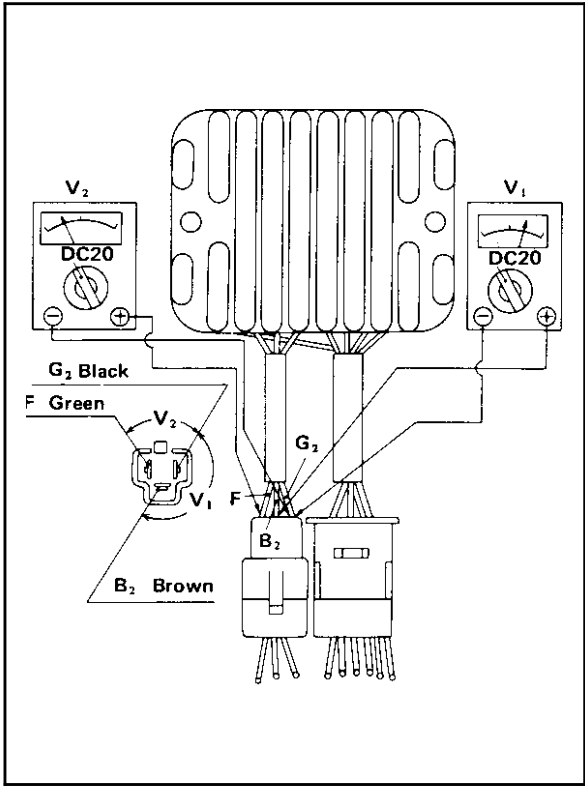
The regulator has been changed from a mechanical-point type to an IC(Integrated Circuit) type. The IC Voltage Regulator is a small and normally very reliable component. Due to its construction, it is lightweight and free from the wear and misadjustment associated with mechanical voltage regulators. If the following inspection reveals that the regulator is faulty, it cannot be adjusted and must be replaced.

#### Checking IC Voltage Regulator

1. Measure the specific gravity of the battery fluid. If it is less than 1.26, remove the battery and recharge until it is more than 1.26.
2. Remove the left hand side cover.
3. Check the battery terminals and couplers for looseness.
4. Connect two Yamaha pocket testers to the regulator coupler as illustrated.

#### CAUTION:

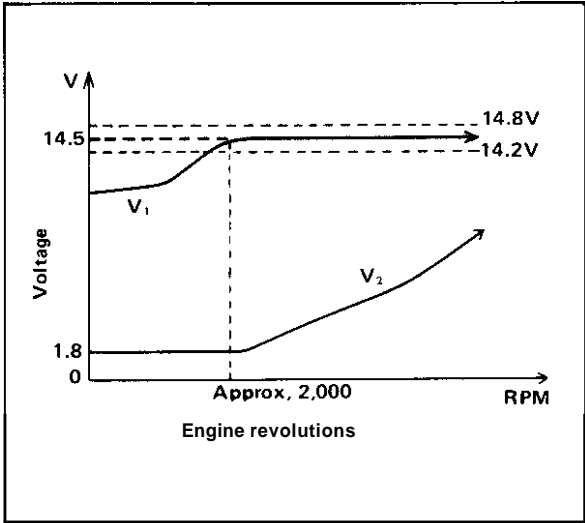
Beware of short-circuiting when connecting tester lead wires to the coupler.



5. Turn the main switch on. Make sure that V2 is less than 1.8V.

**NOTE:** Do not turn on lights or signals.

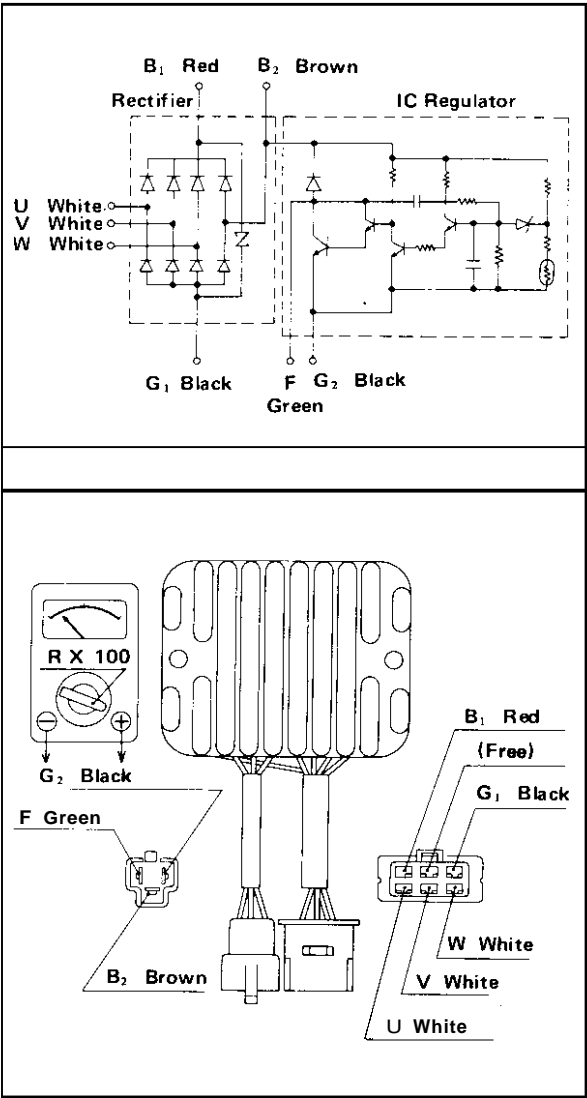
- Make sure that V2 gradually increases up to 9 ~ 11V when the engine is started and its revolutions go up.
- Make sure that V1 keeps the level of 14.2 ~ 14.8V even when engine revolutions increase.



8. If these levels are not maintained, the regulator is defective and must be replaced.

### Checking Silicon Rectifier

- Check silicon rectifier as specified using Yamaha pocket tester.



Checking element	Pocket tester connecting point		Good	Replace (element shorted)	Replace (element opened)
	(+) Red	(-) Black			
D <sub>1</sub>	B <sub>1</sub>	U	O	O	X
	U	01	X	O	X
D <sub>2</sub>	B <sub>1</sub>	V	O	O	X
	V	B <sub>1</sub>	X	O	X
D <sub>3</sub>	B <sub>1</sub>	W	O	O	X
	W	B <sub>1</sub>	X	O	X

D <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	O	O	X
	B <sub>2</sub>	B <sub>1</sub>	X	O	X
D <sub>5</sub>	U	G <sub>1</sub>	O	O	X
	G <sub>1</sub>	U	X	O	X
D <sub>6</sub>	V	G <sub>1</sub>	O	O	X
	G <sub>1</sub>	V	X	O	X
D <sub>7</sub>	W	G <sub>1</sub>	O	O	X
	G <sub>1</sub>	W	X	O	X
D <sub>8</sub>	B <sub>2</sub>	G <sub>1</sub>	O	O	X
	G <sub>1</sub>	B <sub>2</sub>	X	O	X

O: Continuity

X: Discontinuity ( $\infty$ )

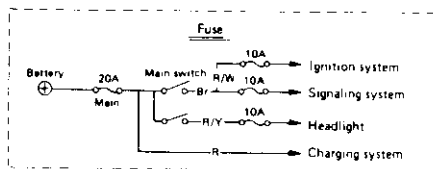
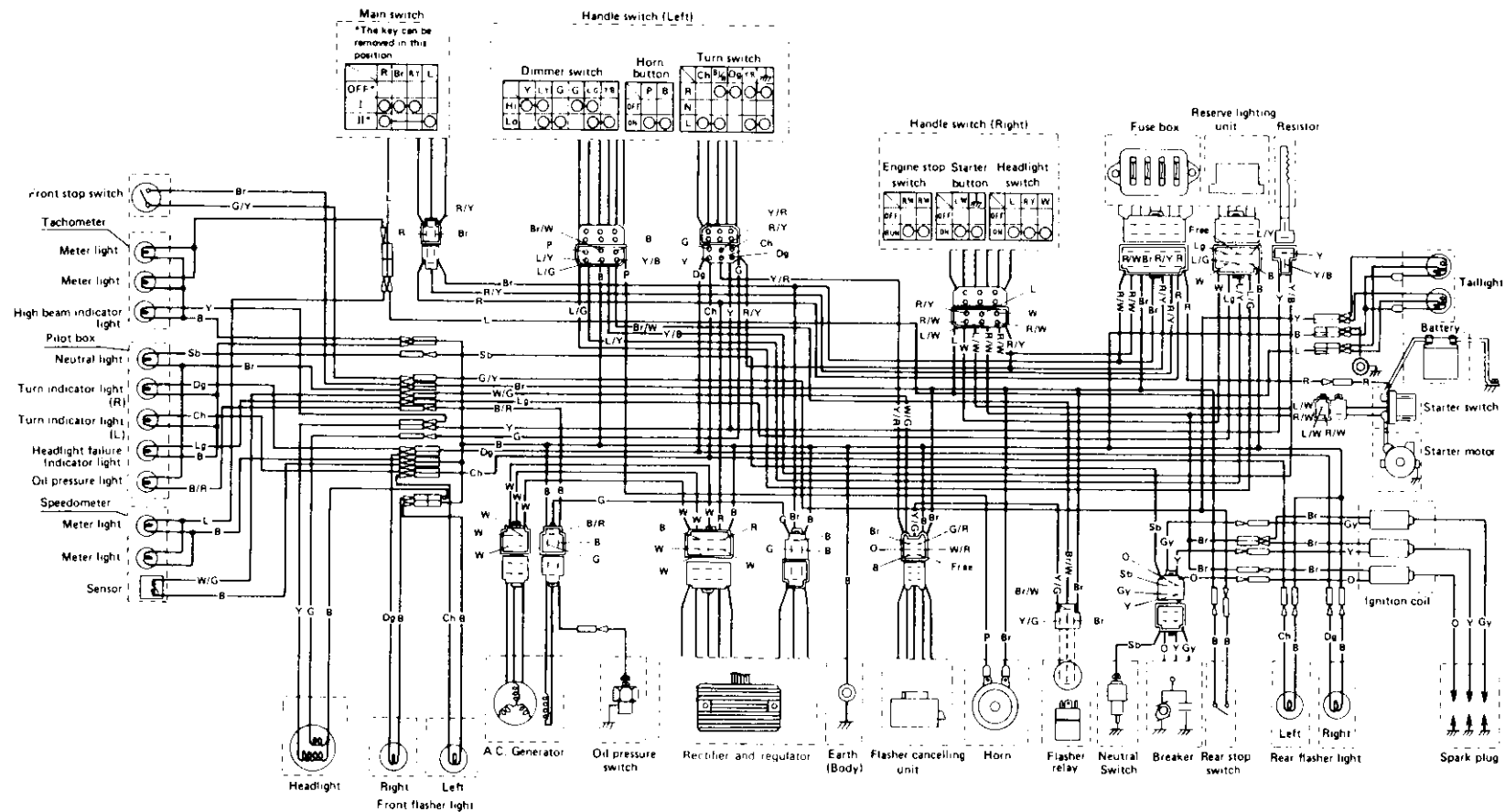
Even if one of the elements is broken, replace assembly.

**CAUTION:** \_\_\_\_\_

The silicon rectifier can be damaged if subject to overcharging. Special care should be taken to avoid a short circuit and/or incorrect connection of the positive and negative leads at the battery. Never connect the rectifier directly to the battery to make a continuity check.

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# XS750-2D Circuit Diagram



## COLOR CODE

B	Black	L	Blue	Y B	Yellow/Black
R	Red	Gy	Gray	Br	Brown/White
W	White	O	Orange	Y G	Yellow/Green
Lg	Light Green	H W	Hot White	W G	White/Green
B	Blue	L W	Blue/White	Y R	Yellow/Red
Y	Yellow	R L	Red/Blue	W R	White/Red
Dg	Dark Green	I Y	Blue/Yellow	G R	Green/Red
Ch	Charcolate	L G	Blue/Green		