

Except for California (06 Model) XVS11AWV XVS11ATV

For California (04 Model) XVS1100ASC XVS1100ATSC SUPPLEMENTARY SERVICE MANUAL

LIT-11616-19-82

5KS-28197-E2

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the XVS1100A. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

XVS1100L/XVS1100LC SERVICE MANUAL: LIT-11616-12-63 (5EL-28197-E0) XVS1100AM/XVS1100AMC SUPPLEMENTARY SERVICE MANUAL: LIT-11616-13-36 (5KS-28197-E0) XVS1100AWR(C)/XVS1100ATR(C) SUPPLEMENTARY SERVICE MANUAL: LIT-11616-16-46 (5KS-28197-E1)

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XVS11AWV/XVS11ATV XVS1100ASC/XVS1100ATSC SUPPLEMENTARY SERVICE MANUAL © 2005 by Yamaha Motor Corporation, U.S.A. First Edition, October 2005 All rights reserved. Any reproduction or unauthorized use without the written permission of Yamaha Motor Corporation, U.S.A. is expressly prohidited. Printed in U.S.A. P/ N LIT-11616-19-82 EAS00003

NOTICE

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

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the vehicle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his vehicle and to conform with federal environmental quality objectives.

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

This Service Manual contains information regarding periodic maintenance to the emission control system. Please read this material carefully.

NOTE: _

Designs and specifications are subject to change without notice.

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IMPORTANT MANUAL INFORMATION

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

	The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
A WARNING	Failure to follow WARNING instructions <u>could result in severe injury or death</u> to the motorcycle operator, a bystander or a person checking 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 clearer.

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HOW TO USE THIS MANUAL

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and check procedures are laid out with the individual steps in sequential order.

(1) The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter. Refer to "SYMBOLS".

(2) Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("PERIODIC CHECKS AND ADJUSTMENTS"), where the sub-section title(s) appears.

③ Sub-section titles appear in smaller print than the section title.

(4) To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

(5) Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.

6 Symbols indicate parts to be lubricated or replaced. Refer to "SYMBOLS".

⑦ A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

(8) Jobs requiring more information (such as special tools and technical data) are described sequentially.





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ILLUSTRATED SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols (1) to (8) indicate the subject of each chapter.

- ① General information
- ② Specifications
- ③ Periodic checks and adjustments
- ④ Engine
- (5) Carburetor
- 6 Chassis
- \bigcirc Electrical system
- (8) Troubleshooting

Symbols (9) to (6) indicate the following.

- (9) Serviceable with engine mounted
- 1 Filling fluid
- (1) Lubricant
- (2) Special tool
- (13) Tightening torque
- (1) Wear limit, clearance
- (15) Engine speed
- (16) Electrical data

Symbols (7) to (22) in the exploded diagrams indicate the types of lubricants and lubrication points.

- 17 Engine oil
- (18) Gear oil
- (19) Molybdenum-disulfide oil
- 2 Wheel-bearing grease
- (2) Lithium-soap-based grease
- 2 Molybdenum-disulfide grease

Symbols 3 to 4 in the exploded diagrams indicate the following.

(2) Apply locking agent (LOCTITE®)

(2) Replace the part

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XVS11AWV/XVS11ATV/XVS1100ASC/XVS1100ATSC WIRING DIAGRAM (for US and CAL)

GENERAL SPECIFICATIONS



SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Standard			
Model code:	XVS1100ASC :5YS1 (For CAL)XVS1100ATSC :5YS4 (For CAL)XVS1100ATTC :5YSD (For CAL)XVS1100AWTC :5YS9 (For CAL)XVS11ATV :5YSM (For U.S.A.)XVS11ATVC :5YSN (For CAL)XVS11AWV :5YSH (For U.S.A.)XVS11AWV :5YSJ (For CAL)			
Basic weight				
With oil and fuel	XVS1100ASC/XVS1100ATSC/XVS1100ATTC/ XVS1100AWTC/XVS11ATVC/XVS11AWVC : 288.0 kg (635 lb) XVS11ATV/XVS11AWV : 285.0 kg (628 lb) XVS1100ASC/XVS1100ATSC/XVS1100ATTC/			
Maximum Ioau	XVS1100ASC/XVS1100ATSC/XVS1100ATC/ XVS1100AWTC/XVS11ATVC/XVS11AWVC : 200 kg (441 lb) XVS11ATV/XVS11AWV : 203 kg (448 lb)			



MAINTENANCE SPECIFICATIONS ENGINE

Item	Standard	Limit
Final gear oil:		
Туре	SAE80 API GL-4 Hypoid gear oil	•••
Quantity	0.19 L (0.20 US qt) (0.17 Imp.qt)	•••
Carburetor:		
Type × quantity	BSR37 × 2	•••
Manufacturer	MIKUNI	•••
ID mark	5YS1 00	•••
Main jet	#1:#112.5 #2:#115	•••
Main air jet	#55	•••
Jet needle	5DL43-53-1	•••
Needle jet	P-0M	•••
Pilot air jet 1	#63.8	•••
Pilot air jet 2	#145	•••
Pilot outlet	1	•••
Pilot jet	#17.5	•••
Bypass 1	0.8	•••
Bypass 2	0.8	•••
Bypass 3	0.8	•••
Valve seat size	1.2	•••
Starter jet 1	#42.5	•••
Starter jet 2	0.8	•••
Throttle valve size	#125	•••
Fuel level	4–5 mm (0.16–0.20 in)	•••

MAINTENANCE SPECIFICATIONS SPEC



CHASSIS

Item	Standard	Limit
Front suspension:		
Туре	Telescopic fork	•••
Spring/shock absorber type	Coil spring/oil damper	•••
Shock absorber travel	140.0 mm (5.51 in)	•••
Fork spring free length	371.9 mm (14.64 in)	•••
Collar length	183.0 mm (7.20 in)	•••
Installed length	334.4 mm (13.17 in)	•••
Spring rate K1	4.40 N/mm (25.12 lb/in) (0.45 kgf/mm)	•••
Spring rate K2	6.30 N/mm (35.97 lb/in) (0.64 kgf/mm)	•••
Spring stroke K1	0.0–77.5 mm (0.00–3.05 in)	•••
Spring stroke K2	77.5–140.0 mm (3.05–5.51 in)	•••
Inner tube outer diameter	41.0 mm (1.61 in)	•••
Optional spring available	No	•••
Recommended oil	Yamaha fork oil 10WT	•••
Quantity	488.0 cm ³ (16.50 US oz) (17.21 Imp.oz)	•••
Level	99.0 mm (3.90 in)	•••



ELECTRICAL

Item	Standard	Limit
	190 921 O Croy Plack	
TCI unit model/manufacturer	J4T145/MITSUBISHI	•••
Battery:		
Model	GT14B-4	•••
Voltage, capacity	12 V, 12.0 Ah	•••
Specific gravity	1.32	•••
Manufacturer	GS YUASA	•••
Ten hour rate amperage	1.20 A	•••
Bulb voltage, wattage × quantity:		
Headlight	12 V, 60 W/55.0 W × 1	•••
Tail/brake light	12 V, 8.0 W/27.0 W × 1	•••
Front turn signal/position light	XVS1100ASC/XVS1100ATSC :	
	12 V, 27 W/8.0 W × 2	•••
	XVS1100ATTC/XVS1100AWTC/	
	XVS11ATV/XVS11ATVC/XVS11AWV/	
	XVS11AWVC :	
	12 V, 23 W/8.0 W × 2	•••
Rear turn signal light	XVS1100ASC/XVS1100ATSC :	
	12 V, 27.0 W × 2	•••
	XVS1100ATTC/XVS1100AWTC/	
	XVS11ALV/XVS11ALVC/XVS11AWV/	
	XVS11AWVC :	
	12 V, 21.0 W × 2	•••
Meter lighting	14 V, 1.4 W × 2	•••
Starting circuit cut-off relay:		
Model/manufacturer	G8R-30Y-U0/OMRON	•••
Coil resistance	162–198 Ω	•••
Fuel pump relay:		
Model/manufacturer	G8R-30Y-U0/OMRON	•••
Coil resistance	162–198 Ω	•••



Item	Standard	Limit
Fuses:		
Main fuse	30.0 A	•••
Headlight fuse	15.0 A	•••
Signaling system fuse	10.0 A	•••
Ignition fuse	10.0 A	•••
Backup fuse	5.0 A	•••
Carburetor heater fuse	15.0 A	•••
Ignitor unit fuse	5.0 A	•••
Reserve fuse	30.0 A	•••
Reserve fuse	15.0 A	•••
Reserve fuse	10.0 A	•••
Reserve fuse	5.0 A	•••

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PERIODIC CHECKS AND ADJUSTMENTS

INTRODUCTION

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

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PERIODIC MAINTENANCE CHART FOR EMISSION CONTROL SYSTEM

				INITIAL		ODO	METER READ	DINGS	
N	о.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
1	*	Fuel line	 Check fuel hoses for cracks or damage. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2	*	Fuel filter	Replace.						Replace.
3		Spark plugs	 Check condition. Adjust gap and clean. Replace every 8000 mi (13000 km) or 12 months. 		\checkmark	Replace.	\checkmark	Replace.	\checkmark
4	*	Valve clearance	 Check and adjust valve clearance when engine is cold. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
5	*	Crankcase breather system	 Check breather hose for cracks or damage. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
6	*	Carburetor synchro- nization	 Adjust synchronization of carburetors. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7	*	Idle speed	 Check and adjust engine idle speed. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8	*	Exhaust system	 Check for leakage. Tighten if necessary. Replace gasket(s) if necessary. 		\checkmark	√	\checkmark	\checkmark	√
9	*	Evaporative emis- sion control system (For California only)	 Check control system for damage. Replace if necessary. 				\checkmark		

* Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.

GENERAL MAINTENANCE AND LUBRICATION CHART

				INITIAL	INITIAL ODOMETER READINGS					
N	lo.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months	
1	*	Air filter element	Clean with compressed air.Replace if necessary.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
2	*	Clutch	Check operation.Adjust or replace cable.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
3	*	Front brake	 Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
4	*	Rear brake	 Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	V	V	V	V	\checkmark	V	

GENERAL MAINTENANCE AND LUBRICATION CHART



				INITIAL		ODOMETER READINGS				
N	о.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months	
_		.	Check for cracks or damage.		V	√	\checkmark	V	V	
5		Brake noses	Replace.			Every 4	4 years			
6	*	Wheels (XVS11V)	 Check runout, spoke tightness and for damage. Tighten spokes if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
7	*	Wheels (XVS11AWV /XVS11ATV)	Check runout and for damage.Replace if necessary.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
8	*	Tires	 Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary. 		V	V	V	V	V	
9	*	Wheel bearings	 Check bearings for smooth oper- ation. Replace if necessary. 		\checkmark	√	\checkmark	\checkmark	\checkmark	
10	*	Swingarm pivot bearings	 Check bearing assemblies for looseness. Moderately repack with lithium- soap-based grease. 			v		Repack.		
11	*	Steering bearings	 Check bearing assemblies for looseness. Moderately repack with lithium- soap-based grease every 16000 mi (25000 km) or 24 months. 	V	V	V	V	Repack.	V	
12	*	Chassis fasteners	 Check all chassis fitting and fas- teners. Correct if necessary. 		\checkmark	V	\checkmark	V	\checkmark	
13		Brake and clutch le- ver pivot shafts	 Apply lithium-soap-based grease (all-purpose grease) lightly. 		\checkmark	V	\checkmark	V	\checkmark	
14		Brake and shift ped- al pivot shafts	 Apply lithium-soap-based grease (all-purpose grease) lightly. 		\checkmark	v	\checkmark	v	\checkmark	
15		Sidestand pivot	 Check operation. Apply lithium-soap-based grease (all-purpose grease) lightly. 		\checkmark	V	\checkmark	V	\checkmark	
16	*	Sidestand switch	 Check operation and replace if necessary. 	\checkmark	\checkmark	V	\checkmark	v	\checkmark	
17	*	Front fork	 Check operation and for oil leak- age. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
18	*	Shock absorber as- sembly	 Check operation and for oil leak- age. Replace if necessary. 		V	v	\checkmark	V	\checkmark	
19	*	Rear suspension link pivots	 Apply lithium-soap-based grease lightly. 					V		
20		Engine oil	 Change (warm engine before draining). 	\checkmark	V	√	\checkmark	√	V	
21	*	Engine oil filter ele- ment	Replace.	\checkmark		√		√		
22		Final gear oil	 Check oil level and for oil leakage. Change at initial 600 mi (1000 km) or 1 month, and thereafter every 16000 mi (25000 km) or 24 months. 	Change.	V	V	V	Change.		
23	*	Control cables	 Apply Yamaha chain and cable lube or engine oil SAE 10W-30 thoroughly. 	\checkmark	V	√	\checkmark	V	\checkmark	
24	*	Throttle grip hous- ing and cable	 Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable. 		V	√	\checkmark	V	\checkmark	

* Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.



NOTE: _

From 24000 mi (37000 km) or 36 months, repeat the maintenance intervals starting from 8000 mi (13000 km) or 12 months.

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NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
 - After disassembling the brake master cylinders and calipers, always change the fluid. Regularly check the brake fluid levels and fill the reservoirs as required.
 - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.



CARBURETOR

CARBURETOR



Order	Job name/Part name	Q´ty	Remarks
	Disassembling the carburetor.		Disassemble the parts in the order listed.
1	Carburetor heater leads	2	
2	Carburetor heaters	2	12V 30W
3	Fuel cut solenoid valve	2	
4	Float chamber/gasket	1/1	
(5)	Float	1	
6	Needle valve set	1	
$\overline{\mathcal{O}}$	Main jet	1	
8	Jet holder	1	
9	Pilot jet	1 –	Defer to "CADDUDETOD ASSEMDIV" in
(10)	Starter jet	1	FEL 29107 EQ Chapter 5
(1)	Jet needle set	1 _	
(12)	Starter plunger set	1	

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CARBURETOR CARB





Order	Job name/Part name	Q´ty	Remarks
(13)	Diaphragm set	1	Refer to "ASSEMBLING THE CARBURE
(4)	Throttle position sensor	1	TORS" in 5EL-28197-E0 Chapter 5. Refer to "CHECKING AND ADJUSTING THE THROTTLE POSITION SENSOR (TPS)" in 5EL-28197-E0 Chapter 5.
(15)	Main air jet	1	-
(16)	Pilot air jet 2	1	
17	Throttle stop screw set	1	
			For assembly, reverse the disassembly procedure.



CHECKING THE FUEL CUT SOLENOID

- 1. Check:
- fuel cut solenoid valve

- a. Disconnect the fuel cut solenoid valve coupler from the wireharness.
- b. Remove the fuel cut solenoid valve from the carburetor.
- c. Connect the pocket tester $(\Omega \times 1k)$ to the terminals of the fuel cut solenoid valve coupler and fuel cut solenoid body. (ground)

Fuel cut solenoid valve #1 Positive (+) pocket tester probe → brown terminal ① Negative (-) pocket tester probe → ground ② Fuel cut solenoid valve #2 Positive (+) pocket tester probe → green terminal ③ Negative (-) pocket tester probe → ground ②

d. Measure the fuel cut solenoid valve resistance.

Out of specification \rightarrow Replace the fuel cut solenoid valve.



Fuel cut solenoid valve resistance 12 Ω at 20°C (68°F) (brown – ground) (green – ground)





ELECTRICAL

CARBURETOR HEATER SYSTEM CIRCUIT DIAGRAM



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TROUBLESHOOTING

The carburetor heater fails to operate.

Check:

- 1. main, and carburetor heater
- 2. battery
- 3. main switch
- 4. thermo switch
- 5. carburetor heater
- 6. wiring
 - (of the entire carburetor heater system)

NOTE: _

- •Before troubleshooting, remove the following part (-s):
- 1. battery cover
- 2. rider's seat
- 3. fuel tank
- 4. steering head side covers
- 5. tool box cover
- •Troubleshoot with the following special tool (-s).

Pocket tester: 90890-03112, YU-03112-C

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- 1. Main, and carburetor heater fuses
- •Check the main, and carburetor heater fuses for continuity.

Refer to "CHECKING THE FUSES" in 5EL-28197-E0 chapter 3.

•Are the main, and carburetor heater fuses OK?

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2. Battery

•Check the condition of the battery. Refer to "CHECKING AND CHARGING THE BATTERY" in 5EL-28197-E0 chapter 3.

Open-circuit voltage

12.8V or more at 20 °C (68 °F)

•Is the battery OK?

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3. Main switch

- •Check the main switch for continuity. Refer to "CHECKING THE SWITCHES" in 5EL-28197-E0 chapter 7.
- •Is the main switch OK?

4. Thermo switch

- •Remove the thermo switch from the thermo switch plate.
- •Connect the pocket tester to the thermo switch lead.

Tester positive lead \rightarrow black (1) Tester negative lead \rightarrow black (2)

•Immerse the thermo switch in the water ③. •Check the thermo switch for continuity. Note the temperatures while heating the water with the temperature gauge 4.

Test step	Water temperature		Good condition	
1	Less than (60.8 ±	16 ± 3°C 5.4°F)	0	
2	More than (60.8 ±	×		
3	More than (51.8 ±	×		
4	Less than (51.8 ±	0		
Test 1 & 2 : Heat-up test Test 3 & 4 : Cool-down test O : Continuity × : No continuity				
OFF				
ON]		
Thermo sv 11 ± 3°C (51.8 ± 5.4	witch 4°F)	Thermo switch 16 ± 3°C (60.8 ± 5.4°F)		
•Is the thermo switch OK?				
Į	YES		NO	
		Replace switch.	the thermo	

- •Remove the carburetor heater from the carburetor body.
- •Connect the pocket tester to the carburetor heater.

Tester positive lead \rightarrow Heater terminal (1) Tester negative lead \rightarrow Heater body (2)

EAS00766

tor heater.

SELF-DIAGNOSIS ELEC

SELF-DIAGNOSIS

The XVS11A features self-diagnosis.

When the main switch is turned to "ON", the following items are monitored and the condition codes are displayed on the engine indicator light (irrespective of whether the engine is running or not).

NOTE: _

The XVS11A features a self-diagnosing system.

In the XVS11A, when the main switch is turned on the "Engine indicator light" in the speedometer comes on for 1.4 seconds then goes off. However, if there is a malfunction, it comes on for 1.4 seconds, goes off and then begins flashing. (However, it is on while the engine is running.)

			Display condition code	
Item	Condition	Fail-safe action	When engine is stationary	When engine is running
Throttle position sensor (TPS)	Disconnected or short-circuit	Fixes the throttle position sensor to fully open.	Blinks in Fault code: 15	Light on
	Locked		Blinks in Fault code: 16	Light on
	When the main switch is turned to ON, a stuck is detected.			Light on
Speed sensor	Defective speed sensor pulse		Blinks in Fault code: 42	Light on
Ignition coil #1	Primary coil lead is short-circuit	Fuel cut solenoid valve #1 on.	Blinks in Fault code: 33	Light on
Ignition coil #2	Primary coil lead is short-circuit	Fuel cut solenoid valve #2 on.	Blinks in Fault code: 34	Light on
Fuel cut solenoid valve #1	Disconnected or short-circuit		Blinks in Fault code: 57	Light on
Fuel cut solenoid valve #2	Disconnected or short-circuit		Blinks in Fault code: 58	Light on

Display order on the engine indicator light

SELF-DIAGNOSIS ELEC

TROUBLESHOOTING

The engine trouble warning light starts to display the self-diagnosis sequence.

Check:

- 1. throttle position sensor
- 2. speed sensor
- 3. ignition coil
- 4. fuel cut solenoid

NOTE: .

- •Before troubleshooting, remove the following part(-s):
- 1. rider seat
- 2. fuel tank
- 3. air filter case
- 4. left side cover
- •Troubleshoot with the following special tool(-s).

Pocket tester: 90890-03112, YU-03112-C

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1. Throttle position sensor CIRCUIT DIAGRAM

(19) Throttle position sensor

20 Ignitor unit

- 1. Wireharness
- •Check the wireharness for continuity. Refer to "CIRCUIT DIAGRAM".
- •Is the wireharness OK?

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- 2. Throttle position sensor
- •Check the throttle position sensor for continuity.

Refer to "CHECKING AND ADJUSTING THE THROTTLE POSITION SENSOR" in 5EL-28197-E0 chapter 6.

•Is the throttle position sensor OK?

Replace the ignitor unit.

Replace the throttle position sensor.

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2. Speed sensor CIRCUIT DIAGRAM

- 20 Ignitor unit
- 2 Speed sensor

Tester negative lead → Body earth
Tester positive lead \rightarrow White ① terminal
speed sensor connector.
•Connect the pocket tester (DC 20 V) to the
that the rear wheel is elevated.
•Place the motorcycle on a suitable stand so
2. Speed sensor

3. Ignition coil

1. Wireharness

- •Check the wireharness for continuity. Refer to "IGNITION SYSTEM" in 5EL-28197-E0 chapter 7.
- •Is the wireharness OK?

wireharness.

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- 2. Ignition coil resistance The following procedure applies to all of the ignition coils.
- Disconnect the ignition coil connectors from the ignition coil terminals.
- •Connect the pocket tester ($\Omega \times 1$) to the ignition coil as shown.

Tester positive probe \rightarrow red/black Tester negative probe \rightarrow orange (gray)

Orange (gray) lead (2)

4. Fuel-cut solenoid CIRCUIT DIAGRAM

20 Igniter unit

- Bruel-cut solenoid 1 (#1 carburetor) (brown)
- (2) Fuel-cut solenoid 2 (#2 carburetor) (green)

XVS11AWV/XVS11ATV/XVS1100ASC/XVS1100ATSC WIRING DIAGRAM (for US and CAL)

- (1) Pickup coil
- (2) A.C. magneto (stator coil)
- (3) Rectifire/ regulator
- (4) Main switch
- (5) Solenoid (for CAL.)
- 6 Battery

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- (7) Main fuse
- (8) Starter relav
- (9) Starter motor
- (1) Starting circuit cut-off relay
- (f) Oil lamp relav
- (12) Right handlebar switch
- (13) Front brake switch
- (14) Engine stop switch
- (15) Start switch
- (6) Oil level gauge
- (7) Sidestand switch
- (18) Fuel pump
- (19) Throttle position sensor
- (20) Ignitor unit
- (21) Ignition coil
- (22) Špark plug
- (23) Fuel cut solenoid valve
- (#1: brown, #2: green)
- (24) Speed sensor
- (25) Meter assembly
- (26) Oil level caution light
- (27) Engine warning light
- (28) Speedmeter
- (29) Meter light
- (3) Turn signal indicator light
- (3) Neutral indicator light
- (3) High beam indicator light
- 3 Neutral switch
- (3) Trip switch
- 35 Flasher relay
- 36 Horn
- (37) Rear brake switch
- (38) Left handlebar switch
- (39) Dimmer switch
- (4) Horn switch
- (1) Clutch switch
- (42) Turn signal switch
- (43) Headlight
- (4) Rear turn signal light (right)
- (45) Rear turn signal light (left)
- (46) Front turn signal/ position light (right)
- (47) Front turn signal/ position light (left)
- (48) Tail / brake light
- (49) Ignition fuse
- (50) Backup fuse
- (51) Headlight fuse
- 5 Signal fuse
- (53) Igniter fuse
- (54) Carburetor heater fuse
- (55) Thermo switch
- (56) Carburetor heater 1
- (57) Carburetor heater 2
- (58) Carburetor heater ground