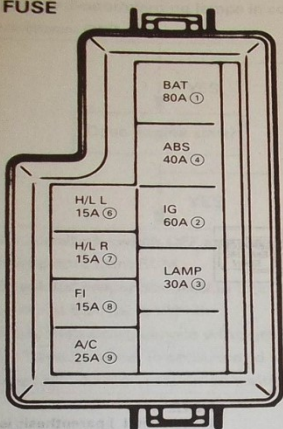
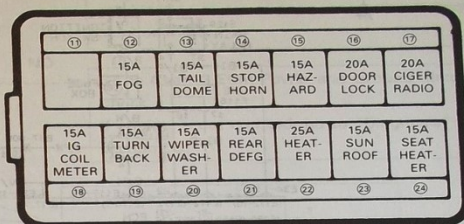


MAINTAIN FUSE BOX OR FUSE CIRCUIT CHECK - LAMP BURNED
COME "ON" AT IGNITION SWITCH OR FUSE CIRCUIT CHECK - LAMP BURNED
STOP ENGINE AT STOP

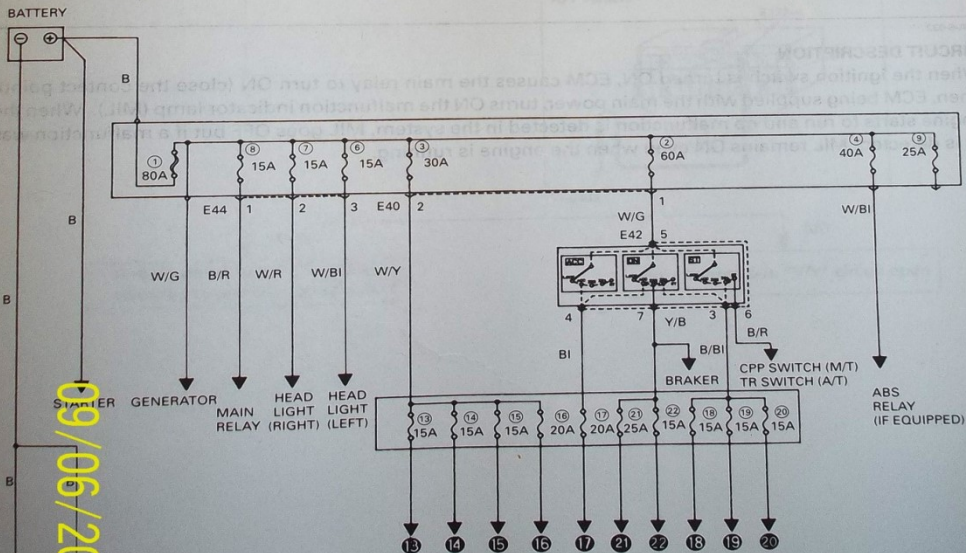
MAIN FUSE



FUSE



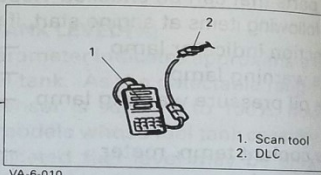
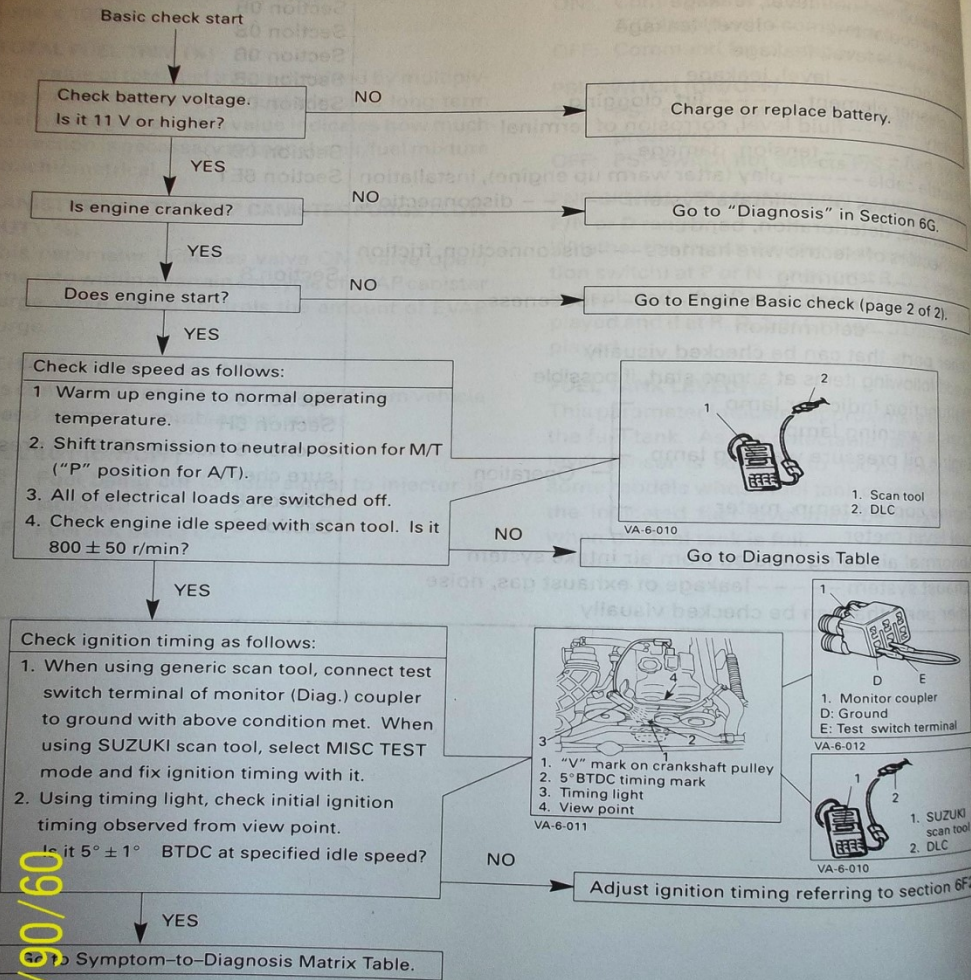
WIRING DIAGRAM



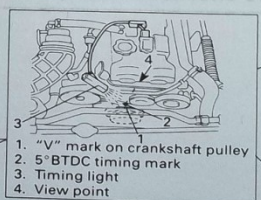
09/06/2013

ENGINE BASIC CHECK (Page 1 of 2)

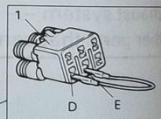
This check is very important for troubleshooting when ECM has detected no DTC and no abnormality been found in visual inspection. Follow the flow chart carefully.



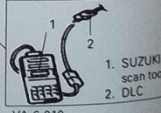
VA-6-010



VA-6-011



VA-6-012



VA-6-010

09/06/2013

ENGINE BASIC CHECK (Page 2 of 2)

Were you sent here from Engine basic check (Page 1 of 2)?

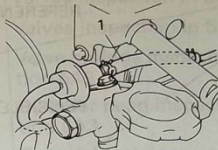
NO

Go to Engine basic check (Page 1 of 2).

YES

Check fuel supply as follows:

1. Check that enough fuel is filled in fuel tank.
2. Turn ON ignition switch for 3 seconds and then OFF. Repeat this a few times. Is fuel return pressure (returning sound) felt from fuel return hose when ignition is turned ON?



1. Fuel return hose

VA-6-013

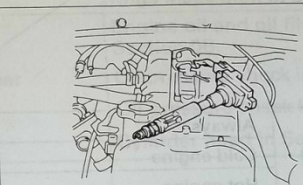
NO

Go to "Diag flow chart B-1 or B-3"

YES

Check ignition spark as follows:

1. Disconnect injector coupler(s).
2. Remove spark plugs and connect them to ignition coils.
3. Ground spark plugs.
4. Crank engine and check if each spark plug sparks. Is it in good condition?



VA-6-014

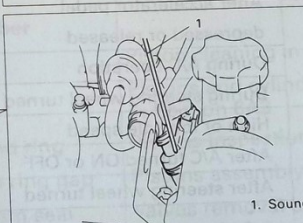
NO

Go to DIAGNOSIS in section 6F2.

YES

Check fuel injector for operation as follows:

1. Install spark plugs and connect injector connector.
2. Check that fuel is injected out in conical shape from fuel injector when cranking (or using sound scope, check injector for operating sound at engine cranking). Is it in good condition?



1. Sound scope

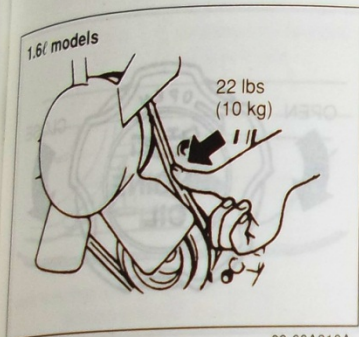
VA-6-015

NO

Go to "Diag. flow chart B-2"

Go to Symptom-to Diagnosis Matrix Table.

09/06/2013

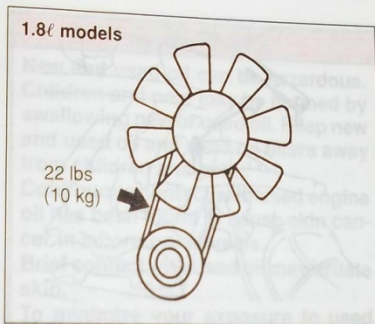


09-60A310A

WARNING

When the engine is running, keep hands, hair, clothing, tools, etc. away from the moving fan and fan belt.

Make sure the fan belt tension is correct. If the belt is too loose, insufficient battery charging, engine overheating, or excessive belt wear can result. When you press the belt with your thumb midway between the pulleys, there should be a deflection according to the following chart.



09-60A526A

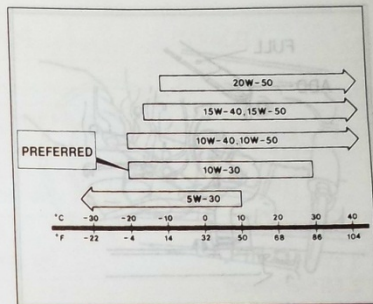
1.6ℓ model: 0.24 – 0.31 in. (6 – 8 mm)

1.8ℓ model: 0.20 – 0.27 in. (5 – 7 mm)

The fan belt should also be examined to ensure that it is not damaged.

(For 1.8ℓ models) In addition to the fan belt, check the accessory drive belt for damage, too.

If the belt needs to be replaced or adjusted, have it done by your SUZUKI dealer.



09-60G159A

Specified oil

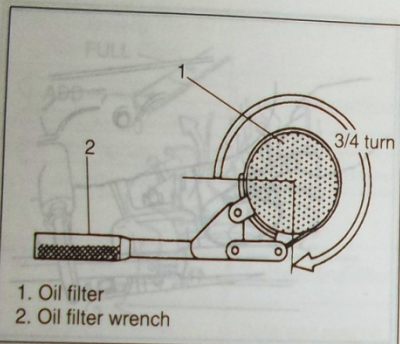
Be sure that the engine oil you use comes under the API classification of SG, SH, SJ, SH/ILSAC GF-1 or SJ/ILSAC GF-2. Select the appropriate oil viscosity according to the above chart.

For temperatures above -4°F (-20°C), we highly recommend you use SAE 10W-30 oil.

EXAMPLE

09-60A388A

GEAR OIL



09-60A199A

- 5) Tighten the filter 3/4 turn from the point of contact with the mounting surface (or to 8.5 – 11.5 lb-ft [1.2 – 1.6 kg-m]) using an oil filter wrench.

CAUTION

To prevent oil leakage, make sure that the oil filter is tight, but do not over-tighten it.

Refill with oil and check for leaks.

- 1) Pour 4.5 quarts (4.2 liters) for 1.6ℓ models or 5.5 quarts (5.2ℓ) for 1.8ℓ models of oil through the filler hole and install the filler cap.
- 2) Start the engine and look carefully for leaks at the oil filter and drain plug. Run the engine at various speeds for at least 5 minutes.
- 3) Stop the engine and wait about 5 minutes. Check the oil level again and add oil if necessary. Check for leaks again.

CAUTION

When replacing the oil filter, it is recommended that you use a genuine SUZUKI replacement filter. If you use an after-market filter, make sure it is of equivalent quality and carefully follow the manufacturer's instructions and precautions.

CAUTION

Oil leaks from around the oil filter or drain plug indicate incorrect installation or gasket damage. If you find any leaks or are not sure that the filter has been properly tightened, have the vehicle inspected by your SUZUKI dealer.

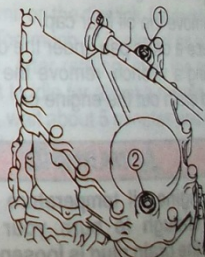
Manual Transmission



- 1 Oil filler and level plug
- 2 Oil drain plug

09-60A201A

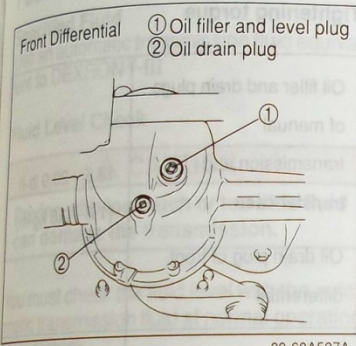
Transfer case



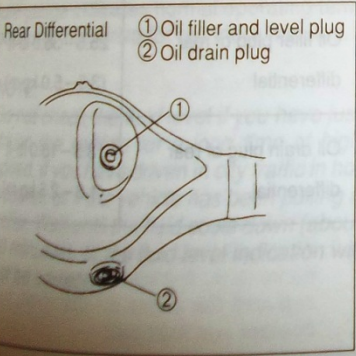
- 1 Oil filler and level plug
- 2 Oil drain plug

09-60A201A

09/06/2013



09-60A527A



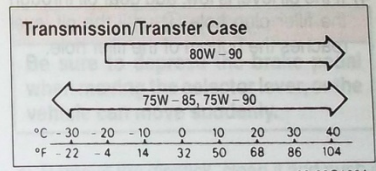
09-60A204A

		API GRADE	CAPACITY
Transmission		GL-4	3.2 pt (1.5 liter)
*Transfer Case		GL-4	3.6 pt (1.7 liter)
Differential	*Front	GL-5 (Hypoid gear oil)	2.1 pt (1.0 liter)
	Rear	GL-5 (Hypoid gear oil)	4.6 pt (2.2 liter)

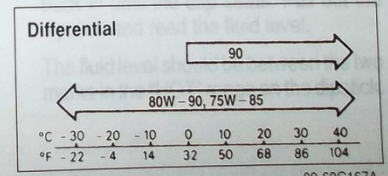
* : (if equipped)

Specified Gear Oil

When replacing gear oil, use the appropriate viscosity, grade and quantity as shown in the charts below. We highly recommend you use SAE 75W-90 gear oil (SAE 80W-90 for differential gear).



09-60G166A



09-60G167A

09/06/2013

ITEM	ALL MODELS
WHEEL Tire size, front and rear SIDEKICK X-90 Tire pressure, front rear	P205/75R15 1.6ℓ 4WD, P195/75R15 1.6ℓ 2WD, P215/65R16 1.8ℓ P195/65R15 Compact spare tire: T125/90D16 160 kPa (1.60 kg/cm ² , 23 psi) 160 kPa (1.60 kg/cm ² , 23 psi) Compact spare tire: 420 kPa (4.2 kg/cm ² , 60 psi)
STEERING Toe-in Camber angle Caster angle	0.08 – 0.24 in (2 – 6mm) 0° 30' SIDEKICK 0° 00' X-90 1° 30' 1.6ℓ, 2° 00' 1.8ℓ
CAPACITIES Coolant Fuel tank Engine oil (Replaced with filter) Transmission oil Differential gear oil Front: Rear: Transfer gear box oil	Manual Transmission: 5.1 L (10.9 US pt) } 1.6ℓ, Automatic Transmission: 5.0 L (10.1 US pt) } 4 DOOR Manual Transmission: 5.3 L (11.2 US pt) } 1.6ℓ, Automatic Transmission: 5.2 L (11.0 US pt) } 2 DOOR 6.5 L (13.8 US pt) } 1.8ℓ 42 L (11.1 US gal) 2 DOOR } 55 L (14.5 US gal) 4 DOOR } 1.6ℓ, 70 L (18.5 US gal) 1.8ℓ 4.2 L (8.9 US pt) 1.6ℓ, 5.2 L (11.0 US pt) 1.8ℓ Manual Transmission: 1.5 L (3.2 US pt) .. 4WD 1.9 L (4.0 US pt) .. 2WD 3-speed Automatic Transmission: 2.8 L (5.9 US pt) (Replaced when oil pan removal) 4-speed Automatic Transmission: 2.5 L (5.3 US pt) (when drained) 1.0 L (2.1 US pt) 4WD 2.2 L (4.6 US pt) 1.7 L (3.6 US pt) 4WD

09/06/2013

SPECIFICATIONS

ITEM	ALL MODELS	
ENGINE		
Type	G16B (16 valve SOHC) or J18A (16 valve DOHC)	
Number of cylinders	4	
Bore	2.95 in (75.0mm)	3.31 in (84mm)
Stroke	3.54 in (90.0mm)	3.27 in (83mm)
Piston displacement	97.0 cu.in (1590cc, 1590cm ³)	112.2cu.in (1839cc, 1839cm ³)
Compression ratio	9.5 : 1	9.8 : 1
ELECTRICAL		
Ignition timing	J18A/G16B 5° B.T.D.C.	
Standard spark plug	J18A/G16B NIPPONDENSO K20PR-U or NGK BKR6E	
Battery	12V GP26-50S 1.6ℓ, 12V GP85 1.8ℓ	
Fuses	See "INSPECTION AND MAINTENANCE" and "FUSES AND PROTECTED CIRCUITS" sections	
Headlight	12V 65/45W	12V 60/55W
Turn signal light	12V 27W	12V 27W
Side marker light	12V 3.8W	12V 3.8W (FRONT), 5W (REAR)
Clearance light	12V 8W	12V 5W
Tail/brake light	12V 8/27W	12V 8/27W
Licence plate light	12V 5W	12V 5W
Back-up light	12V 27W	12V 27W
Interior light	12V 5W or 8W	12V 5W
Meter pilot, warning, indicator lights	12V 1.4W	12V 1.4W
High-mount stop light	12V 21cp	12V 5.4W

..... G16B

..... J18A

SIDEKICK

X-90

09/06/2013

60A-1500-AZE

SPECIFICATIONS

NOTE:
Specifications are subject to change without notice.

ITEM	CANVAS TOP	2-DOOR HARDTOP	X-90	4-DOOR HARDTOP	
				1.6ℓ	1.8ℓ
DIMENSIONS in (mm)					
Overall length	143.7 (3 650)	↔	146.1 (3 710)	158.7 (4 030)	162.4 (4 125)
Overall width	64.2 (1 630)	↔	66.7 (1 695)	64.4 (1 635)	66.7 (1 695)
Overall height	4WD: 65.1 (1 654) 2WD: 64.3 (1 633)	↔ —	60.5 (1 537) —	66.5 (1 690) 65.7 (1 668)	66.3 (1 685) —
Wheelbase	86.6 (2 200)	↔	↔	97.6 (2 480)	↔
Tread, front	54.9 (1 395)	↔	56.1 (1 425)	54.9 (1 395)	57.3 (1 455)
rear	55.1 (1 400)	↔	56.3 (1 430)	55.1 (1 400)	57.1 (1 450)
Ground clearance	4WD: 7.9 (200) 2WD: 7.6 (192)	↔ —	6.5 (165) —	7.9 (200) 7.6 (192)	7.7 (196) —
WEIGHT					
Curb weight lbs (kg)	2339 – 2579 (1061) (1170)	—	2304 – 2542 (1045) (1153)	2612 – 2813 (1185) (1276)	2912 – 2989 (1321) (1356)
Gross axle weight rating	See the safety certification label.				
Gross vehicle weight rating	See "SAFETY CERTIFICATION LABEL" in GENERAL INFORMATION section.				

4WD : 4-wheel drive

2WD : 2-wheel drive

AT : Automatic transmission

AC : Air conditioning

PS : Power steering

STD : Standard

OR : Or

09/06/2013