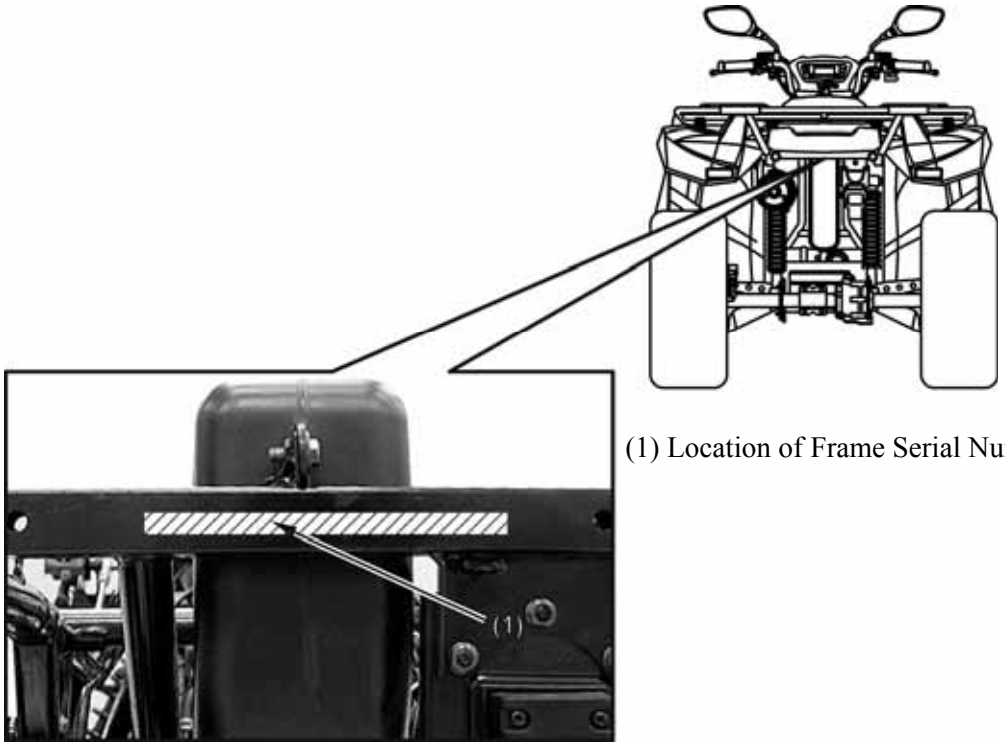
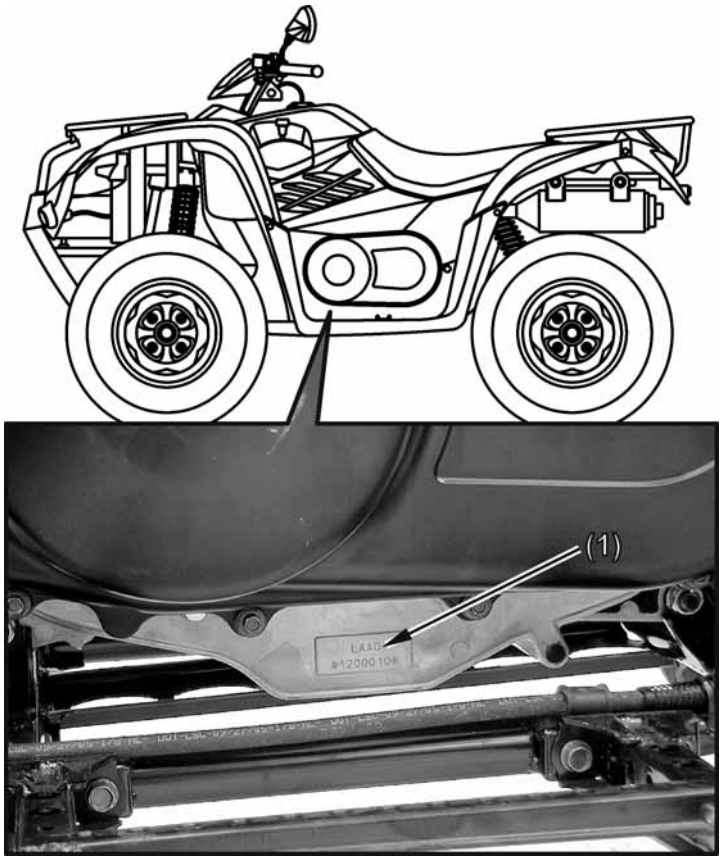
GENERAL INFORMATION

SERIAL NUMBER



(1) Location of Frame Serial Number



(1) Location of Engine Serial Number

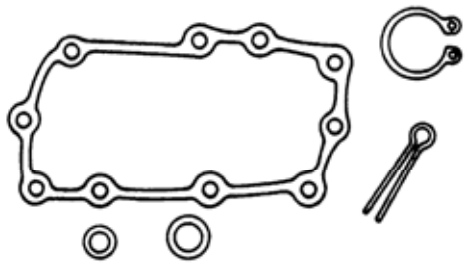
SPECIFICATIONS

Model No.			LAA0
Name & Type			MXU 500
Overall length			2203 mm (88.12 in)
Overall width			1223 mm (48.92 in)
Overall height			1240 mm (49.6 in)
Wheel base			1293 mm (51.72 in)
Engine type			O.H.C.
Displacement			498.5 cm^3 (30.48 cu-in)
Fuel used			92# nonleaded gasoline
Dry weight	Front wheel		154 kg (338.8 lbs)
	Rear wheel		134 kg (294.8 lbs)
	Total		288 kg (633.6 lbs)
Curb weight	Front wheel		164 kg (360.8 lbs)
	Rear wheel		144 kg (316.8 lbs)
	Total		308 kg (648 lbs)
Tires	Front wheel		25X8-12
	Rear wheel		25X10-12
Ground clearance			235 mm (9.4 in)
Min. turning radius			3350 mm (134 in)
Engine	Starting system		Electric/Recoil starter
	Type		Gasoline, 4-stroke
	Cylinder arrangement		Single cylinder
	Combustion chamber type		Semi-sphere
	Valve arrangement		O.H.C., chain drive
	Bore x stroke		92X75 mm (3.68X3 in)
	Compression ratio		10.5:1
	Compression pressure		15 kgf/cm² (1500kPa, 213 psi)
	Intake valve (at 1mm lift)	Opens	5° BTDC
		Closes	45° ABDC
	Exhaust valve (at 1mm lift)	Opens	45° BBDC
		Closes	5° ATDC
	Valve clearance (cold)	Intake	0.1 mm (0.004 in)
		Exhaust	0.1 mm (0.004 in)
	Idle speed (rpm)		1500 rpm
	Cooling type		Liquid cooled

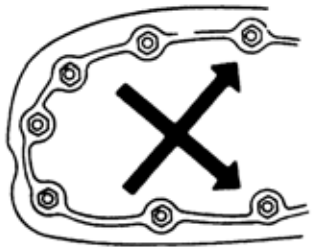
Lubrication System	Lubrication type			Forced pressure & Wet sump
	Oil pump type			Trochoid
	Oil filter type			Full-flow filtration
	Oil capacity			3.6 L (3.17 lmp qt, 3.82 Us qt)
	Oil exchanging capacity			3 L (2.64 lmp qt, 3.18 Us qt)
	After draining and oil filter cartridge change			3.2 L (2.82 lmp qt, 3.39 Us qt)
Fuel System	Air cleaner type & No			Wet type element
	Fuel capacity			17 L (3.57 lmp gal, 4.42 US gal
	Carburetor	Type		CVK
		Main jet	ON ROAD	#128
			OFF ROAD	#130
		Slow jet		#40
		Choke jet		#90
Electrical Equipment	Ignition System	Type		Full transistor digital ignition
		Ignition timing		5°/1500 rpm
		Spark plug		CR7E (NGK)
		Spark plug gap		0.6～0.7mm (0.024～0.028 in)
	Battery	Capacity		12V18AH
Drive Train	Clutch type			Wet, centrifugal automatic
	Clutch operation system			Automatic (V-belt)
	Primary reduction system			V-belt
	Secondary reduction system			Shaft drive
	High reduction ratio			3.76
	Low reduction ratio			6.464
	Reverse ratio			5.31
Moving Device	FR/RR tire rolling circumference			1995/1995 mm (79.8/79.8 in)
	Tire pressure		Front	0.28 kg/cm² (28 Kpa, 3.2 psi)
			Rear	
	Turning angle		Left	36°
			Right	36°
Brake system type			Front	Disk brake
			Rear	Disk brake
Suspension type			Front	Double wishbone
			Rear	Link suspension
Frame type				Double cradle

SERVICE PRECAUTIONS

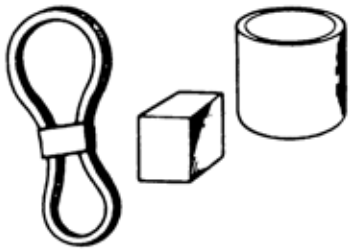
■ Make sure to install new gaskets, O-rings, circlips, cotter pins, etc. when reassembling.



■ When tightening bolts or nuts, begin with larger-diameter to smaller ones at several times, and tighten to the specified torque diagonally.

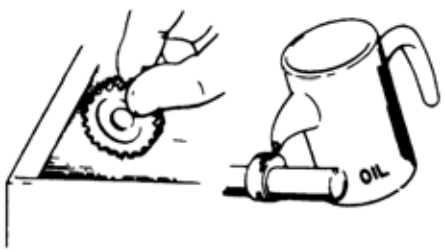


■ Use genuine parts and lubricants.

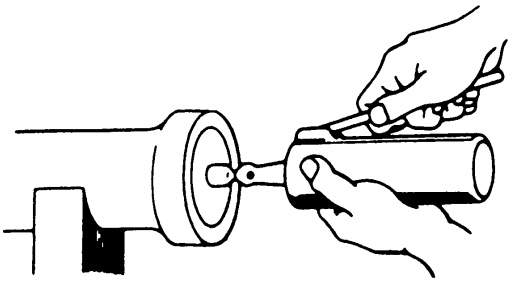


■ When servicing the motorcycle, be sure to use special tools for removal and installation.

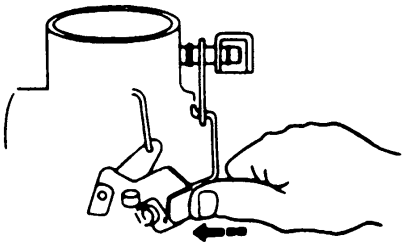
■ After disassembly, clean removed parts. Lubricate sliding surfaces with engine oil before reassembly.



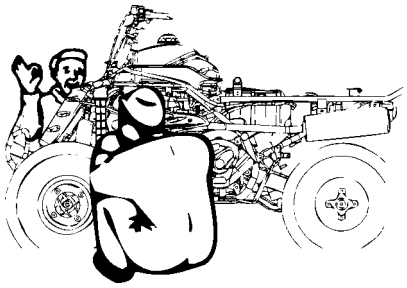
■ Apply or add designated greases and lubricants to the specified lubrication points.



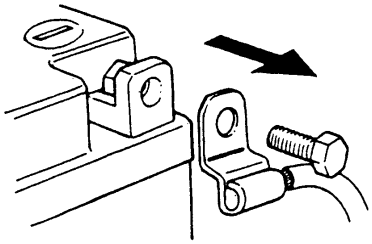
■ After reassembly, check all parts for proper tightening and operation.



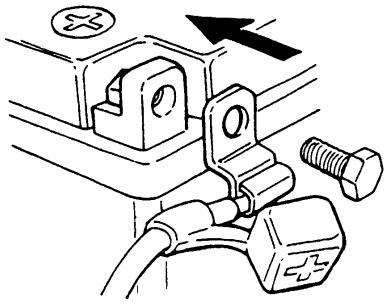
■ When two persons work together, pay attention to the mutual working safety.



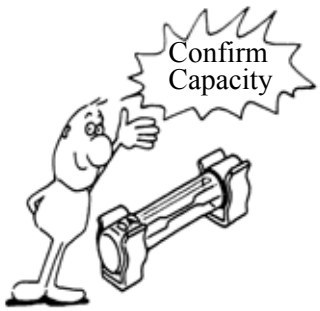
■ Disconnect the battery negative (-) terminal before operation.
■ When using a spanner or other tools, make sure not to damage the motorcycle surface.



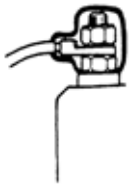
■ After operation, check all connecting points, fasteners, and lines for proper connection and installation.
■ When connecting the battery, the positive (+) terminal must be connected first.
■ After connection, apply grease to the battery terminals.
■ Terminal caps shall be installed securely.



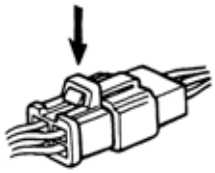
■ If the fuse is burned out, find the cause and repair it. Replace it with a new one according to the specified capacity.



■ After operation, terminal caps shall be installed securely.

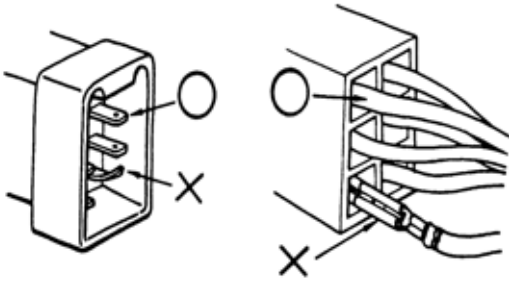


■ When taking out the connector, the lock on the connector shall be released before operation.

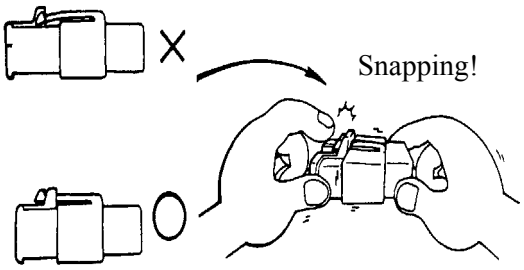


■ Hold the connector body when connecting or disconnecting it.
■ Do not pull the connector wire.

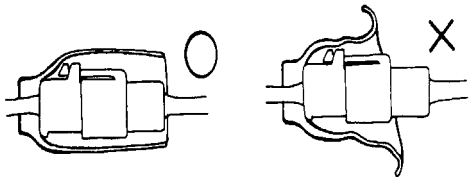
■ Check if any connector terminal is bending, protruding or loose.



- The connector shall be inserted completely.
- If the double connector has a lock, lock it at the correct position.
- Check if there is any loose wire.

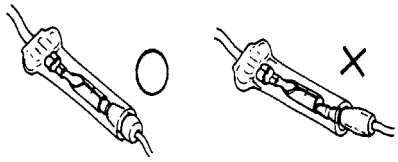


- Before connecting a terminal, check for damaged terminal cover or loose negative terminal.

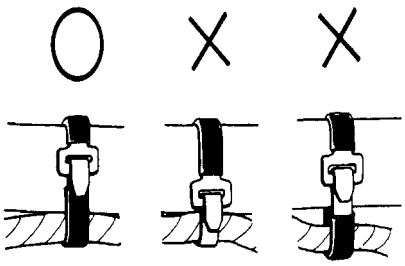


- Check the double connector cover for proper coverage and installation.

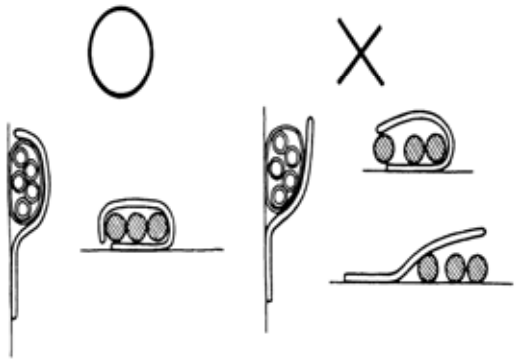
- Insert the terminal completely.
- Check the terminal cover for proper coverage.
- Do not make the terminal cover opening face up.



- Secure wire harnesses to the frame with their respective wire bands at the designated locations.
  Tighten the bands so that only the insulated surfaces contact the wire harnesses.

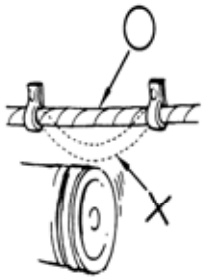


■ After clamping, check each wire to make sure it is secure.

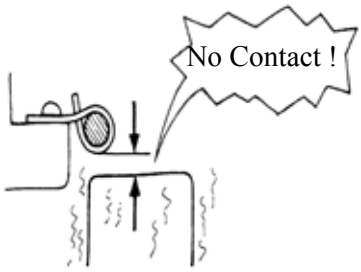


■ Do not squeeze wires against the weld or its clamp.

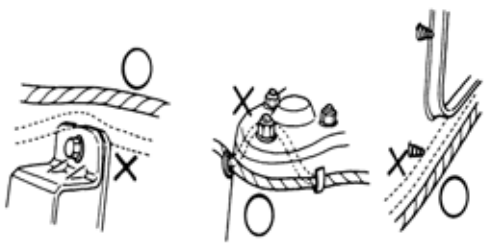
■ After clamping, check each harness to make sure that it is not interfering with any moving or sliding parts.



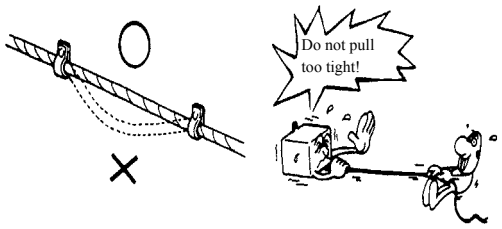
■ When fixing the wire harnesses, do not make it contact the parts which will generate high heat.



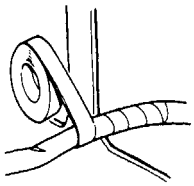
■ Route wire harnesses to avoid sharp edges or corners. Avoid the projected ends of bolts and screws.
■ Route wire harnesses passing through the side of bolts and screws. Avoid the projected ends of bolts and screws.



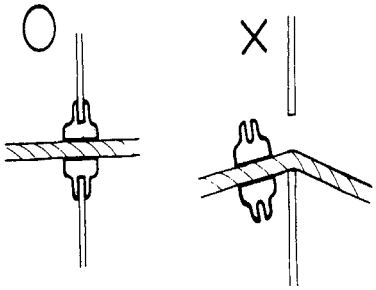
■ Route harnesses so they are neither pulled tight nor have excessive slack.



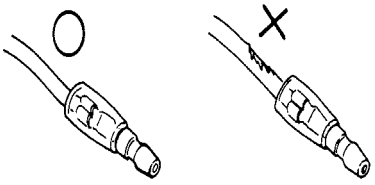
■ Protect wires and harnesses with electrical tape or tube if they contact a sharp edge or corner.



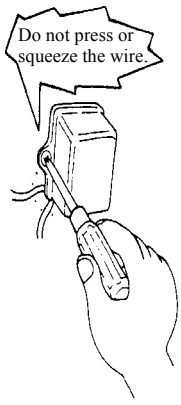
■ When rubber protecting cover is used to protect the wire harnesses, it shall be installed securely.



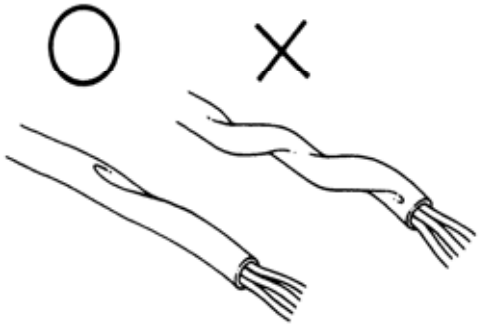
■ Do not break the sheath of wire.
■ If a wire or harness is with a broken sheath, repair by wrapping it with protective tape or replace it.



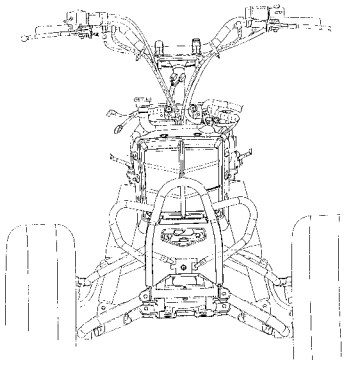
■ When installing other parts, do not press or squeeze the wires.



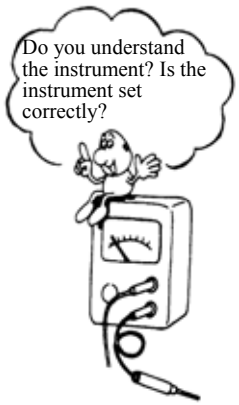
■ After routing, check that the wire harnesses are not twisted or kinked.



■ Wire harnesses routed along with handlebar should not be pulled tight, have excessive slack or interfere with adjacent or surrounding parts in all steering positions.



■ When a testing device is used, make sure to understand the operating methods thoroughly and operate according to the operating instructions.



■ Be careful not to drop any parts.

■ When rust is found on a terminal, remove the rust with sand paper or equivalent before connecting.

■ Symbols:
The following symbols represent the servicing methods and cautions included in this service manual.


Engine Oil

: Apply engine oil to the specified points. (Use designated engine oil for lubrication.)


Grease

: Apply grease for lubrication.


Gear Oil

: Transmission Gear Oil (90#)

: Caution

: Warning

TORQUE VALUES

STANDARD TORQUE VALUES

Item	Torque kgf-m (N-m, lbf-ft)	Item	Torque kgf-m (N-m, lbf-ft)
5mm bolt and nut	0.5 (5, 3.6)	4mm screw	0.3 (3, 2.2)
6mm bolt and nut	1 (10, 7.2)	5mm screw	0.4 (4, 2.9)
8mm bolt and nut	2.2 (22, 16)	6mm screw, SH bolt	0.9 (9, 6.5)
10mm bolt and nut	3.5 (35, 25)	6mm flange bolt and nut	1.2 (12, 9)
12mm bolt and nut	5.5 (55, 40)	8mm flange bolt and nut	2.7 (27, 20)
14mm bolt and nut	7 (70, 50)	10mm flange bolt and nut	4 (40, 29)

Torque specifications listed below are for important fasteners.

ENGINE

Item	Q'ty	Thread dia. (mm)	Torque kgf-m (N-m, lbf-ft)	Remarks
MAINTENANCE:				
Spark plug	1	10	1.2 (12, 8.6)	
Tappet ADJ nut	4	5	0.9 (9, 6.5)	
Engine oil filter cap	1	30	1.5 (15, 11)	Apply oil
Engine oil filter cartridge	1	20	1 (10, 7.2)	Apply oil
Engine drain plug	1	12	2.5 (25, 18)	
LUBRICATION SYSTEM:				
Oil pump screw	1	4	0.3 (3, 2)	
Oil pipe bolt	2	16	3.5 (35, 25.2)	Apply oil
COOLING SYSTEM:				
Water pump bolt	2	6	1.3 (13, 9)	
Fan motor bolt	4	5	0.53 (5, 2.8)	
Fan motor switch	1	16	1.8 (17, 13)	

(Cont'd)

Item	Q'ty	Thread dia. (mm)	Torque kgf-m (N-m, lbf-ft)	Remarks
CYLINDER HEAD:				
Cylinder head bolt	4	10	4.8 (48, 34.6)	Apply oil
Cylinder head bolt	9	8	2.3 (23, 17)	Apply oil
Cylinder head nut	2	6	1 (10, 7)	
Cylinder head cover	4	6	1 (10, 7)	
Breather separator bolt	3	6	1.3 (13, 9)	
Cam chain tensioner bolt	2	6	1.2 (12, 8.6)	
Tensioner sealing bolt	1	10	1 (10, 7)	
Rocker arm shaft	2	18	4.5 (45, 32.4)	Apply oil
Chain guide pivot bolt	2	8	2 (20, 15)	
Water joint bolt	2	6	1.2 (12, 8.6)	
CYLINDER:				
Cylinder bolt	2	6	1 (10, 7.2)	
DRIVE/DRIVEN PULLEY:				
Drive pulley nut	1	20	14 (140, 100.8)	Apply oil
Wet clutch nut	1	25	14 (140, 100.8)	
Driven pulley nut	1	16	10 (100, 72)	Apply oil
Driven pulley assembly plate nut	1	36	7.5 (75, 54)	
TRANSMISSION:				
Crankcase bolt	19	6	1.2 (12, 8.6)	Apply oil
Drive bevel gear nut	1	20	14 (140, 100.8)	Apply oil
Driven bevel gear nut	1	20	14 (140, 100.8)	Apply oil
Stopper lever bolt	1	8	2.5 (25, 18)	
Stopper lever boss nut	1	12	3 (30, 21.6))	
Shift came stopper plug	1	20	4.8 (48, 35)	
Output shaft bearing nut	1	85	11 (110, 79.2)	Apply oil
Drive shaft bearing bolt	4	8	3 (30, 21.6)	
STARTER SYSTEM:				
Starter pulley nut	1	14	5.5 (55, 40)	

FRAME

Item	Q'ty	Thread dia. (mm)	Torque Kgf-m (N-m, lbf-ft)	Remarks
MAINTENANCE:				
Rear drive gear oil drain bolt	1	8	2 (20, 15)	
Rear drive gear oil filler cap	1	30	1.5 (15, 11)	
Rear drive gear oil level check bolt	1	8	2 (20, 15)	
Front drive gear oil drain bolt	1	14	3.2 (32, 23)	
Front drive gear oil filler cap	1	18	3.5 (35 25.5)	
Front drive gear oil level check bolt	1	6	1 (10, 7.2)	
Tie-rod adjusting nut	4	10	3.5 (35 25.5)	
Front wheel hub nut	2	18	7 (70, 50)	Castle nut
Rear wheel hub nut	2	16	10 (100, 72)	Castle nut
EXHAUST MUFFLER:				
Exhaust muffler mounting bolt	2	8	3.5 (35, 25)	
Exhaust pipe mounting nut	2	8	3.5 (35, 25)	
Exhaust muffler band bolt	1	8	2.1 (21, 15)	
ENGINE ASSEMBLY:				
Engine mounting bolt/nut	3	10	6 (60, 43.5)	
Engine hanger nut	4	8	3.5 (35, 25)	
DRIVE TRAIN:				
Front drive:			4.5 (45, 32.4)	
Front propeller shaft bolt	3	10	4 (40, 29)	
Front drive gear case mounting bolt	2	10	1.5 (15, 11)	Apply threebond: 1215
Shifting fork shaft plug	1	8	2.3 (23, 16.5)	Apply threebond: 1215
Front drive gear case bolt	9	8	2.3 (23, 16.5)	Apply threebond: 1215
2WD/4WD shift motor mounting bolt	1	8	1.2 (12, 8.5)	
2WD/4WD shift motor mounting bolt	2	6		
Rear drive:			5.5 (55, 40)	
Rear drive gear case mounting nut	8	10	5 (49, 36)	Apply threebond: 1215
Rear drive gear case bolt	2	10	2.5 (25, 19)	Apply threebond: 1215
Rear drive gear case bolt	6	8		

(Cont'd)

Item	Q'ty	Thread dia. (mm)	Torque Kgf-m (N-m, lbf-ft)	Remarks
STEERING SYSTEM:				
Handlebar holder bolt	4	8	2.5 (25, 18)	
Steering bracket	2	8	2.2 (22, 16)	
Steering column nut	1	14	7 (70, 50)	
Tie-rod ball joint nut	4	10	2.1 (21, 16)	Castle nut
WHEEL:				
Front wheel nut	8	10	6.5 (65, 46)	
Rear wheel nut	8	10	6.5 (65, 46)	
SUSPENSION:				
Front:				
Front swing arm bolt/nut	6	10	4.5 (45, 32)	
Knuckle ball joint nut	4	12	3 (30, 22)	Castle nut
Front shock absorber mount bolt/nut	4	10	4 (40, 29)	
Rear:				
Rear shock absorber mount bolt/nut	4	10	4 (40, 29)	
Right pivot bolt	1	30	11.8 (118, 85)	
Left pivot bolt	1	30	1.1 (11, 8)	
Left pivot lock nut	1	30	11.8 (118, 85)	
Axle housing mounting bolt/nut	8	10	5.5 (55, 40)	
BRAKE SYSTEM:				
Front brake disc bolt	8	8	3.5 (35, 25.2)	
Rear brake disc bolt	4	8	3.5 (35, 25.2)	
Brake caliper mounting bolt	8	8	3.2 (32, 24)	
Brake hose oil bolt	10	10	3.5 (35, 25)	
Master cylinder holder bolt	4	6	1.2 (12, 8.6)	
Brake pad mounting bolt	8	8	1.8 (18, 13)	
Bleed valve nut	5	6	0.6 (6, 4.32)	OFF ROAD: 4 Q'ty
Delay valve mounting bolt	2	6	1.2 (12, 8.6)	ON ROAD only
Delay valve plug	1	20	5 (50, 36)	ON ROAD only

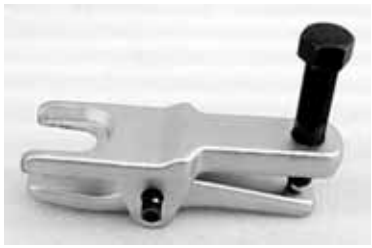
SPECIAL TOOLS

Tool Name	Tool No.	Illustration (Note: the special tools may differ slightly from those shown in the figure of this manual.)
Oil seal and bearing installer	A120E00014	
Valve adjuster (Refer to the "**VALVE CLEARANCE**" section in the chapter 3.)	A120E00036	
Bearing puller	A120E00037	
Valve spring compressor (Refer to the "**CYLINDER HEAD DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 8.)	A120E00040	
Universal holder (Refer to the "**DRIVE PULLEY, DRIVE V-BELT AND DRIVEN PULLEYREMOVAL/ INSPECTION/ INSTALLATION**" section and "**CLUTCH REMOVAL/ INSTALLATION**" section in the chapter 10.)	A120E00056	
Drive pulley holder (Refer to the "**DRIVE PULLEY, DRIVE V-BELT AND DRIVEN PULLEYREMOVAL/ INSPECTION/ INSTALLATION**" section in the chapter 10.)	A120E00058	

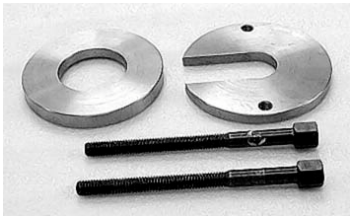
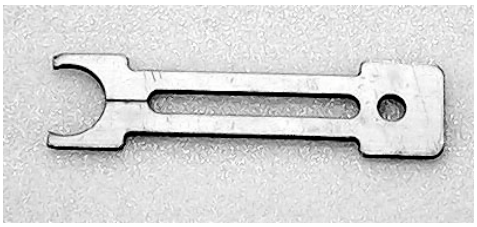
(Cont'd)

Tool Name	Tool No.	Illustration (Note: the special tools may differ slightly from those shown in the figure of this manual.)
Driven pulley holder (Refer to the "**DRIVEN PULLEY DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 10.)	A120E00059	
Flywheel puller (Refer to the "**STARTER CLUTCH REMOVAL/ INSPECTION/ INSTALLATION**" section in the chapter 19.)	A120E00060	
Oil filter cartridge wrench (Refer to the "(Refer to the "**ENGINE OIL**" section in the chapter 3.)	A120E00061	
Output shaft bearing nut wrench (Refer to the "(Refer to the "**BEARING REPLACEMENT IN THE RIGHT CRANKCASE**" section in the chapter 11.)	A120E00066	
Lock nut wrench (Refer to the "**CLUTCH REMOVAL/INSTALLATION**" section in the chapter 10)	A120E00067	

(Cont'd)

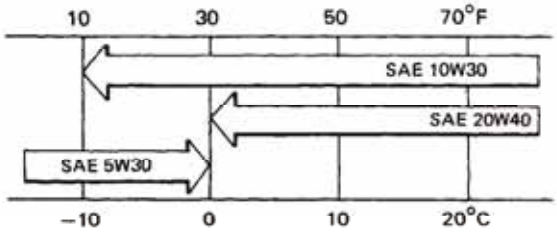
Tool Name	Tool No.	Illustration (Note: the special tools may differ slightly from those shown in the figure of this manual.)
Crankshaft bearing puller	A120E00068	
Ball joint remover (Refer to the "**STEERING KNUCKLE REMOVAL/ INSPECTION/ INSTALLATION**" section in the chapter 15)	A120F00012	
Left pivot lock nut wrench (Refer to the "**REAR SWING ARM REMOVAL/ INSTALLATION**" section in the chapter 15)	A120F00013	
Joint yoke puller (Refer to the "**FRONT DRIVE DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 13)	A120F00016	
Drive shaft puller (Refer to the "**FRONT DRIVE SHAFT REOMVAL/ INSPECTION/ INSTALLATION**" section in the chapter 13)	A120F00017	
Yoke bearing puller (Refer to the "**FRONT DRIVE DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 13)	A120F00018	

(Cont'd)

Tool Name	Tool No.	Illustration (Note: the special tools may differ slightly from those shown in the figure of this manual.)
Pinion bearing lock nut wrench (Refer to the "**REAR DRIVE DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 13.)	A120F00020	
Pinion puller (Refer to the "**REAR DRIVE DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 13.)	A120F00021	
C-ring remover (Refer to the "**FRONT DRIVE DISASSEMBLY/INSPECTION/ ASSEMBLY**" section in the chapter 13)	A120F00022	

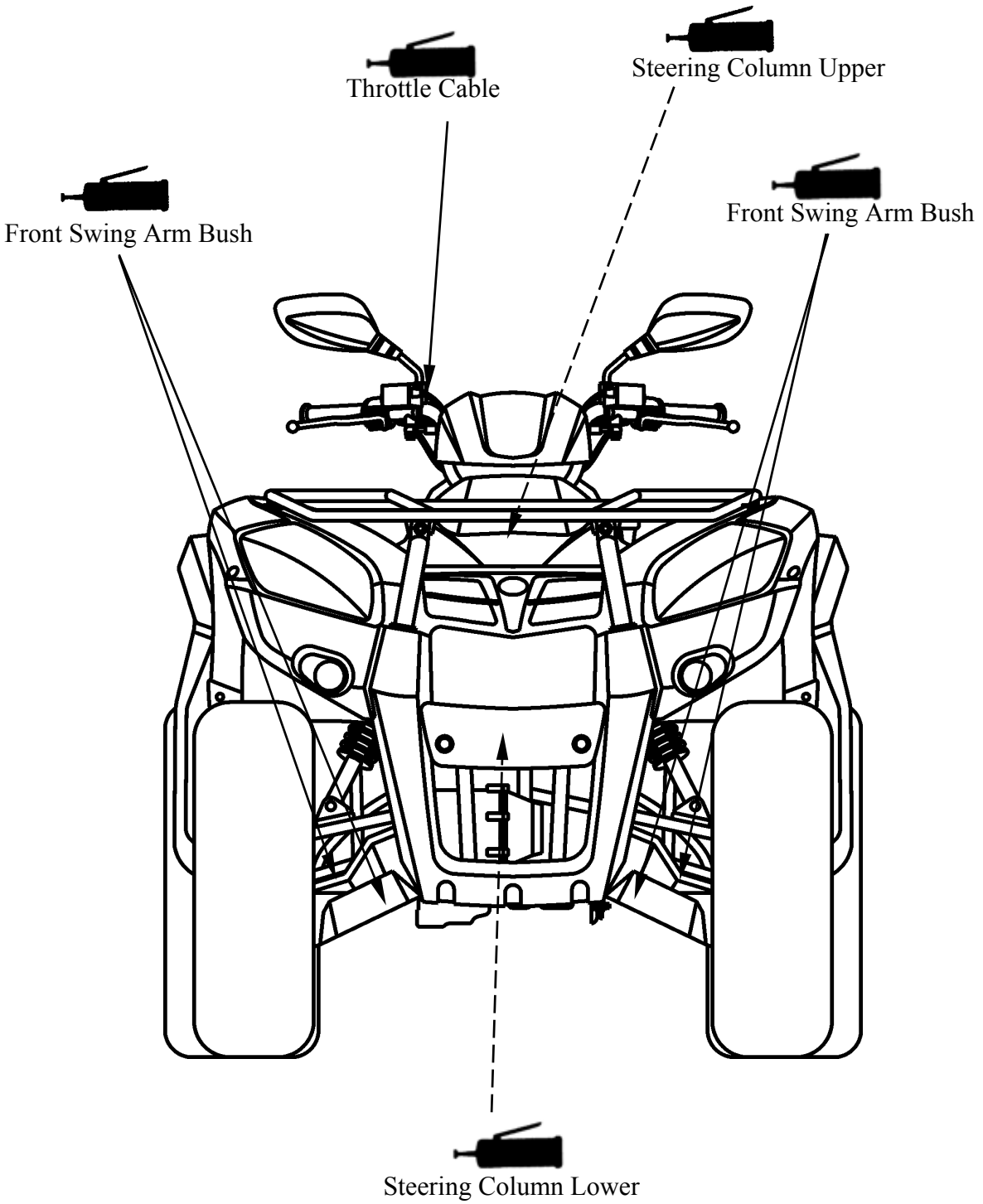
LUBRICATION POINTS

ENGINE

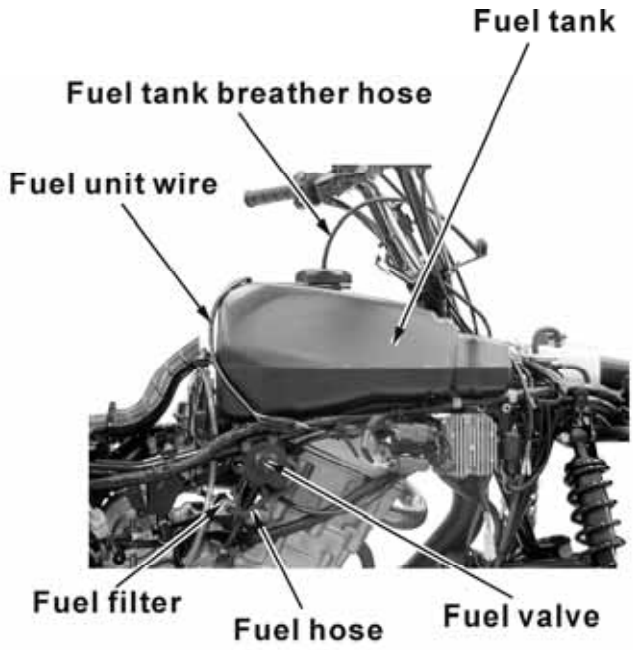
Lubrication Points	Lubricant
Valve guide/valve stem movable part Camshaft protruding surface Valve rocker arm friction surface Camshaft drive chain Cylinder lock bolt Piston surroundings and piston ring grooves Piston pin surroundings Cylinder inside wall Connecting rod/piston pin hole Connecting rod big end Clutch Crankshaft Balance shaft Crankshaft one-way clutch movable part Recoil starter pulley Oil pump drive chain Starter reduction gear Starter one-way clutch O-ring face Oil seal lip Output shaft Bevel gear Drive shaft Countershaft Main shaft Transmission gear shaft bearing part	•Genuine KYMCO Engine Oil (SAE5W-50) •API SJ Engine Oil 
Front drive gear and bearing part	Gear oil: SAE 90#
Rear drive gear and bearing part	Gear oil: SAE 80#

FRAME

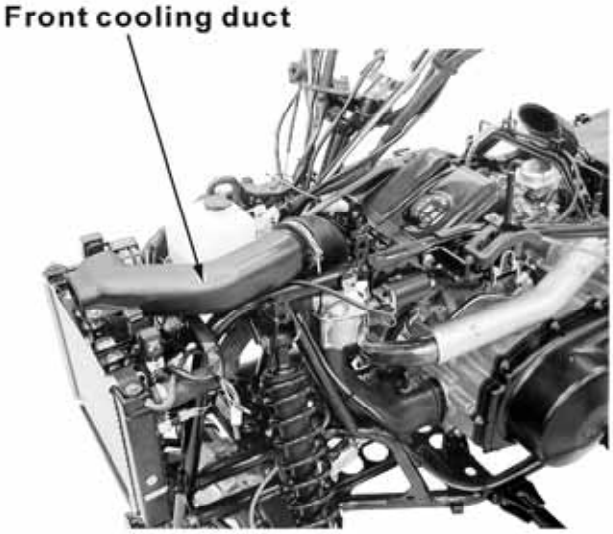
The following is the lubrication points for the frame.
Use general purpose grease for parts not listed.
Apply clean engine oil or grease to cables and movable parts not specified. This will avoid abnormal noise and rise the durability of the ATV.



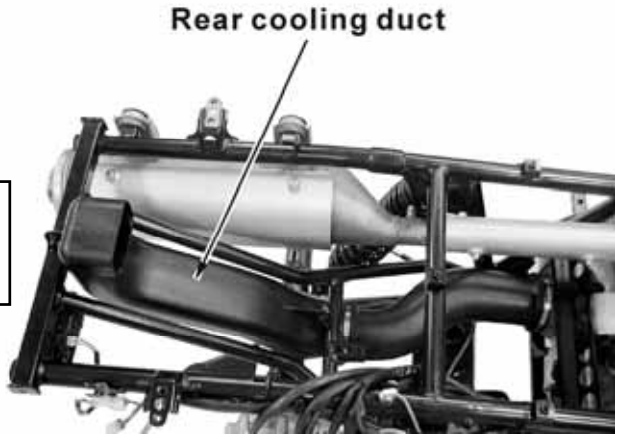
CABLE & HARNESS ROUTING



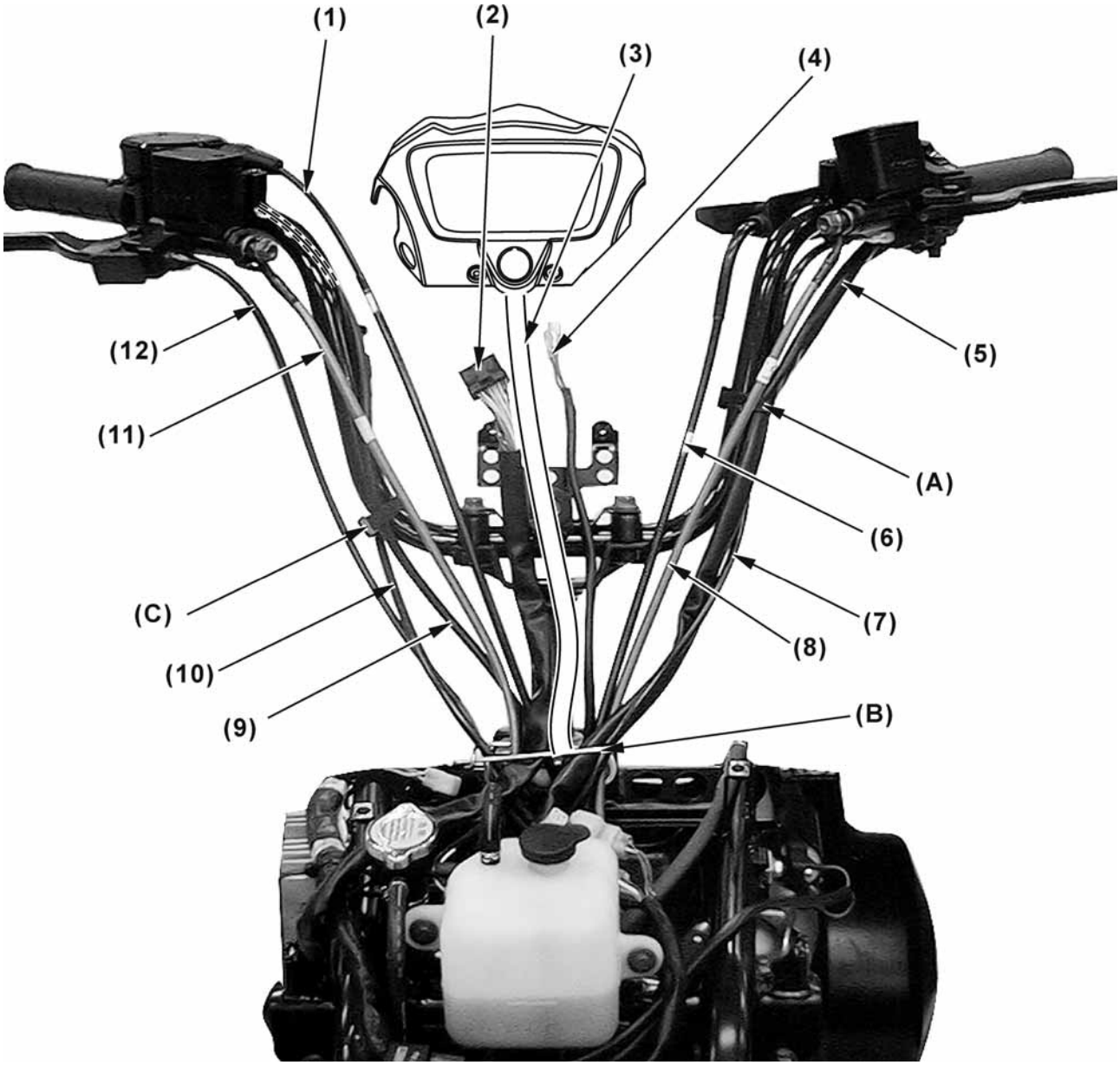
* Remove the fuel tank and fuel valve together (refer to the "**FUEL TANK**" section in the chapter 5).



* Remove the front cooling duct (refer to the "**ENGINE REMOVAL**" section in the chapter 7).

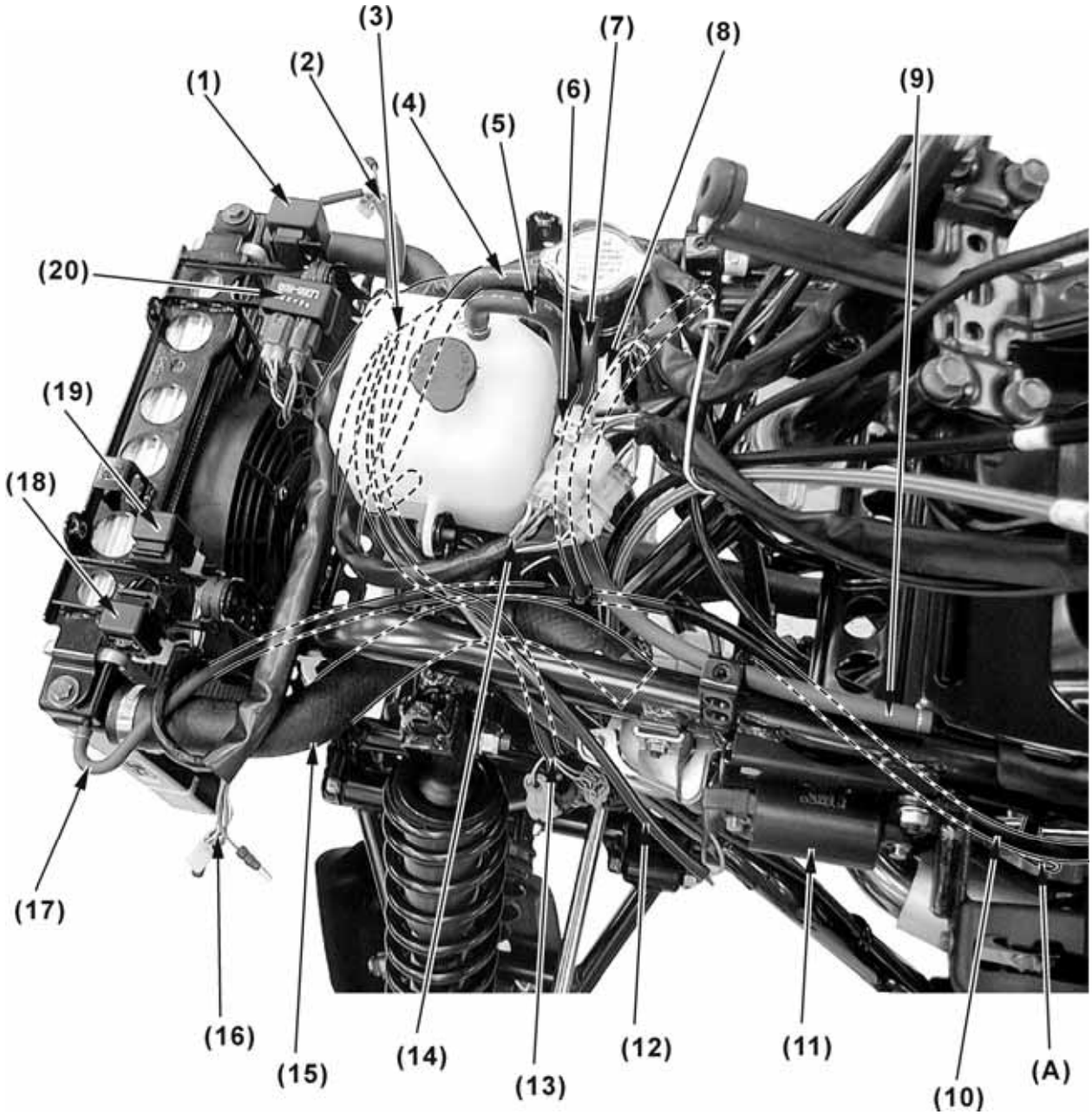


* Remove the rear cooling duct (refer to the "**ENGINE REMOVAL**" section in the chapter 7).



(1) Throttle cable
(2) Instrument connector
(3) Ignition switch wire
(4) Accessory socket connectors
(5) Left handlebar switch
(6) Rear parking brake cable (ON ROAD)
(7) Brake light switch wire
(8) Rear brake hose (Brake lever)
(9) 2WD/4WD switch wire
(10) Choke cable
(11) Front brake hose
(12) Brake light switch wire

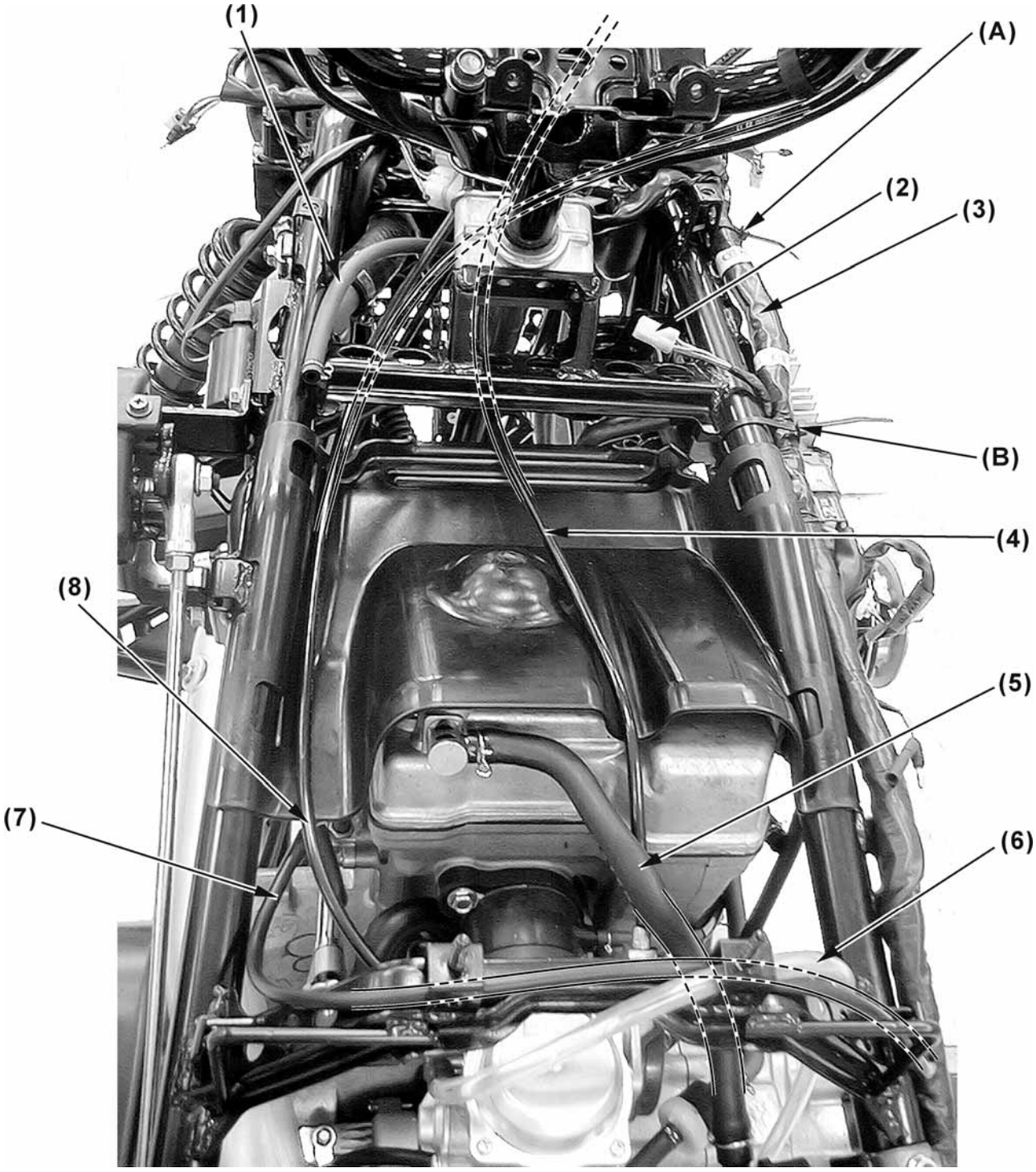
(A) Pass the brake light switch wire and left handlebar switch wire through the band.
(B) Passe the throttle cable, chock cable, brake light switch wires, 2WD/4WD switch wire, front brake hose, rear brake hose, instrument connector wire, accessory socket connector wire, rear parking brake cable (ON ROAD), left handlebar switch wire and ignition switch wire through the guide.
(C) Pass the 2WD/4WD switch wire through the band.



(1) Fan EMI filter
(2) Headlight connector
Right front signal light connectors (ON ROAD)
(3) Harness wire
(4) Siphon hose
(5) Over flow hose (Reserve tank)
(6) Ignition switch connector
(7) Air bleed hose
(8) 2WD/4WD switch connector
(9) Fuel tank flow hose (connect the fuel tank cover, Note)
(10) Air bleed hose
(11) Ignition coil
(12) Ignition coil wire
(13) 2WD /4WD start switch
/2WD/4WD motor connectors
(14) Left handlebar switch connectors
(15) Upper radiator hose
(16) Headlight connector
Left front signal light
connectors (ON ROAD)
(17) Air bleed hose
(18) LO beam relay
(19) HI beam relay
(20) 2WD/4WD change ECU

(A) Pass the air bleed hose through the guide.

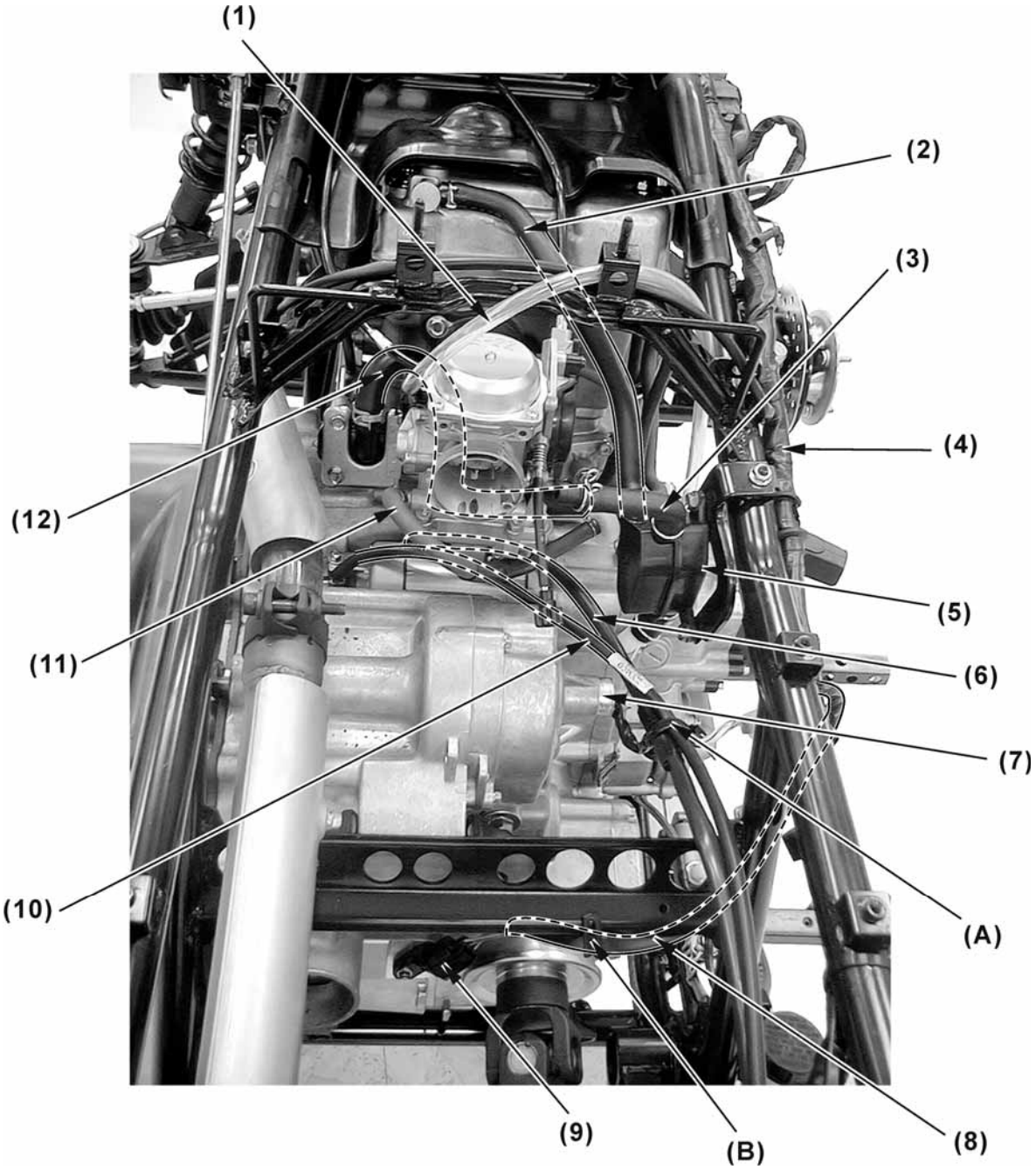
Note: The fuel tank flow hose may locate the frame right side for some model.



(1) Fuel tank flow hose (connect the fuel tank cover, Note)
(2) Hazard connector (ON ROAD)
(3) Harness wire
(4) Throttle cable
(5) Crankcase breather hose
(6) Over flow (carburetor)
(7) Water temperature sensor wire
(8) Choke cable

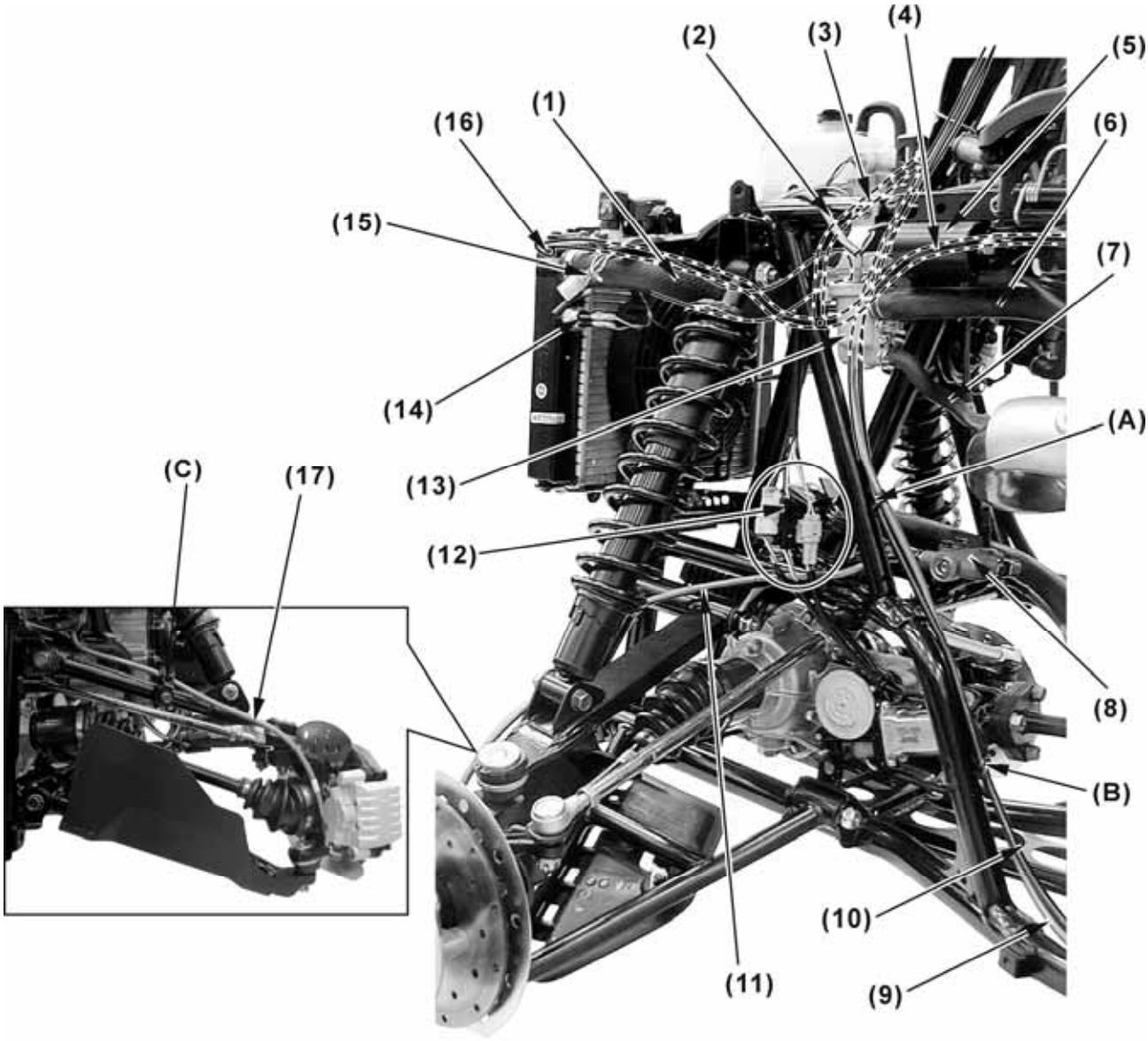
(A) Pass the harness wire through the band.
(B) Pass the harness wire through the band.

Note: The fuel tank flow hose may locate the frame right side for some model.



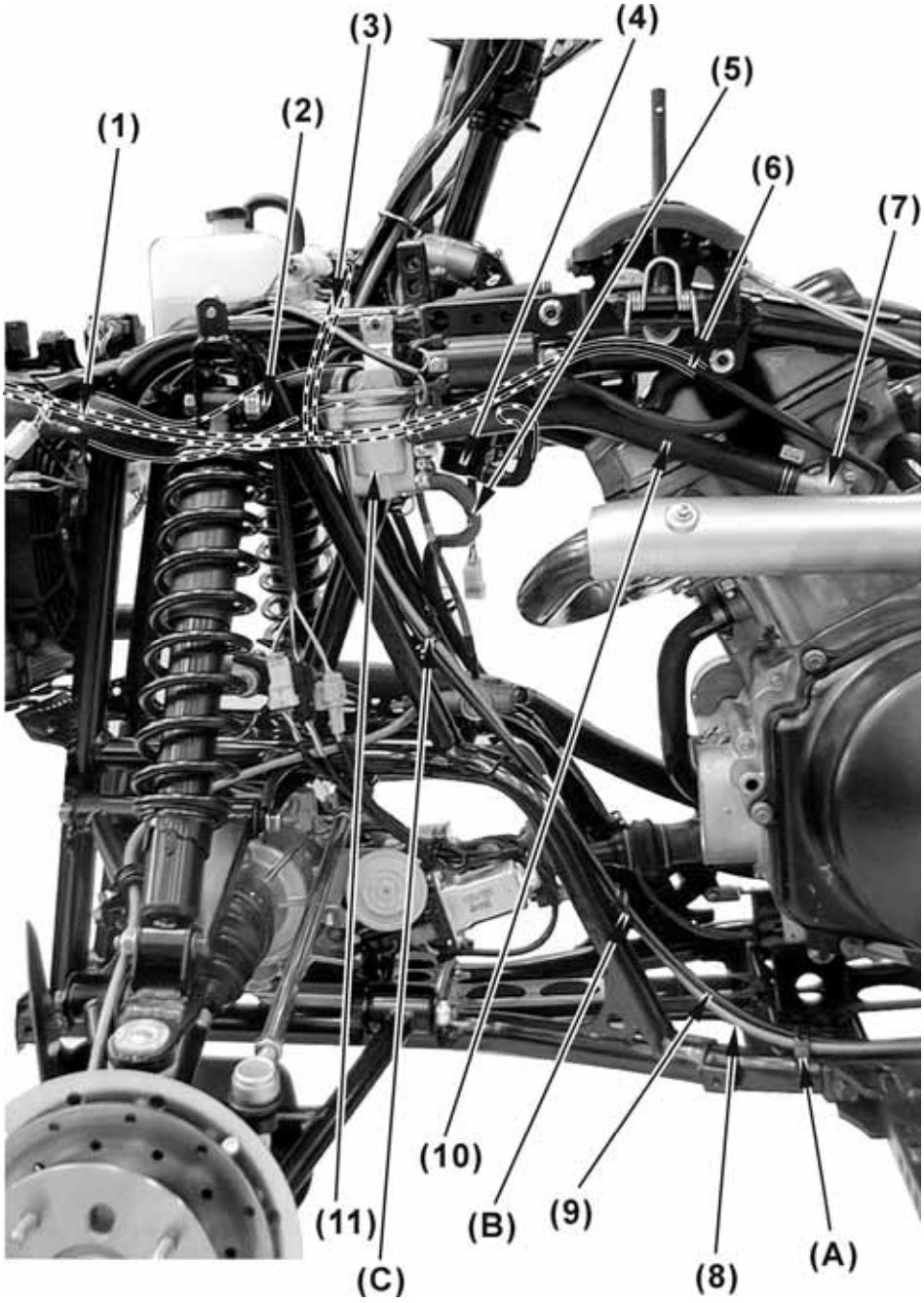
(1) Over flow (carburetor)
(2) Crankcase breather hose
(3) Crankcase breather hose
(4) Harness wire
(5) Crankcase breather hose joint
(6) Starter motor cable
(7) Gear position light switch
(8) Speed sensor wire
(9) Speed sensor
(10) Engine ground cable
(11) Fuel hose
(12) AICV air supply hose

(A) Pass the starter motor cable, engine ground cable and gear position light wire through the band.
(B) Pass the speed sensor wire through the band.



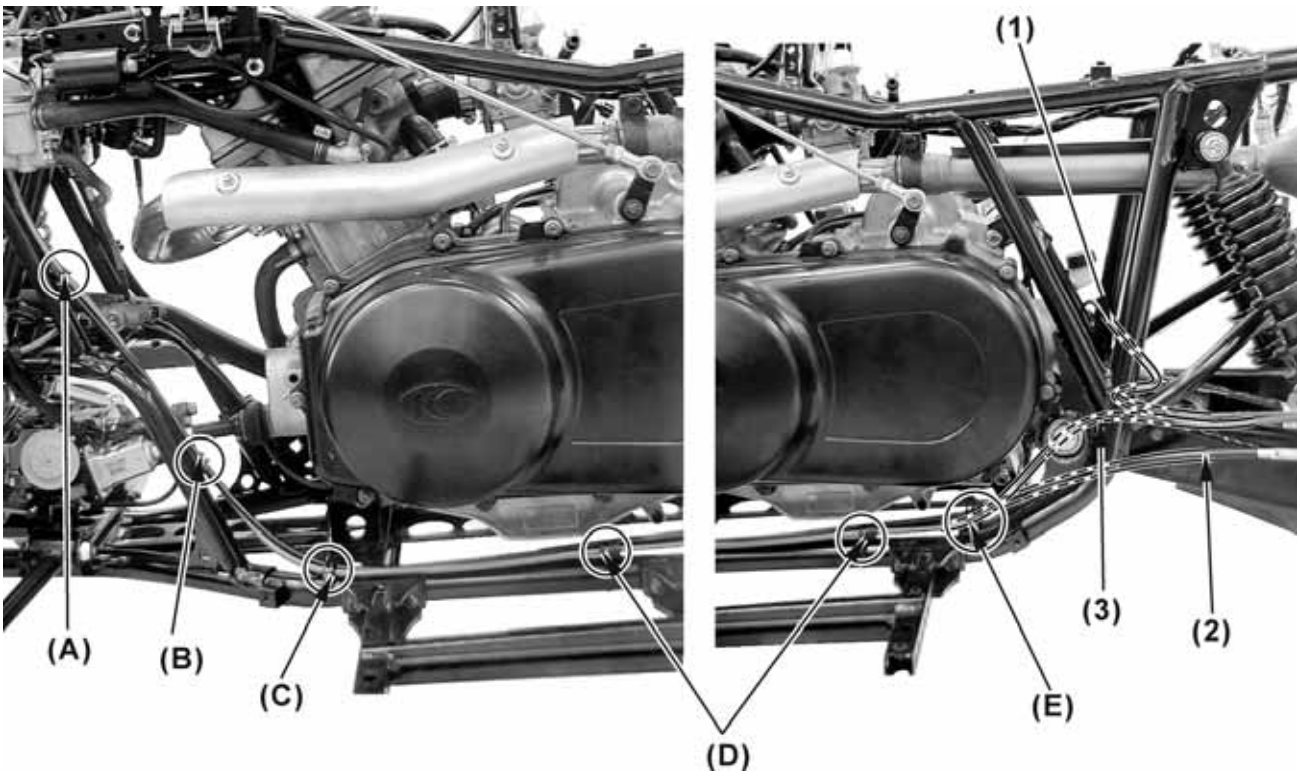
(1) Upper radiator hose
(2) Ignition coil wire
(3) Air bleed hose
(4) Air bleed hose
(5) Ignition coil
(6) Water hose
(7) Water bypass hose
(8) Delay valve (ON ROAD)
(8) Brake fluid joint (OFF ROAD)
(9) Rear brake hose (Brake lever)
(10) Rear parking brake cable (ON ROAD)
(11) Front brake hose
(12) 2WD /4WD start switch//2WD/4WD motor connectors
(13) Thermostat
(14) Fan motor switch
(15) Headlight connector
Left front turn signal light connectors (ON ROAD)
(16) Air bleed hose
(17) Front brake hose

(A) Pass the rear parking cable (ON ROAD) and rear brake hose through the guide.
(B) Pass the rear parking cable (ON ROAD) and rear brake hose through the guide.
(C) Pass the front brake hose through the guide.



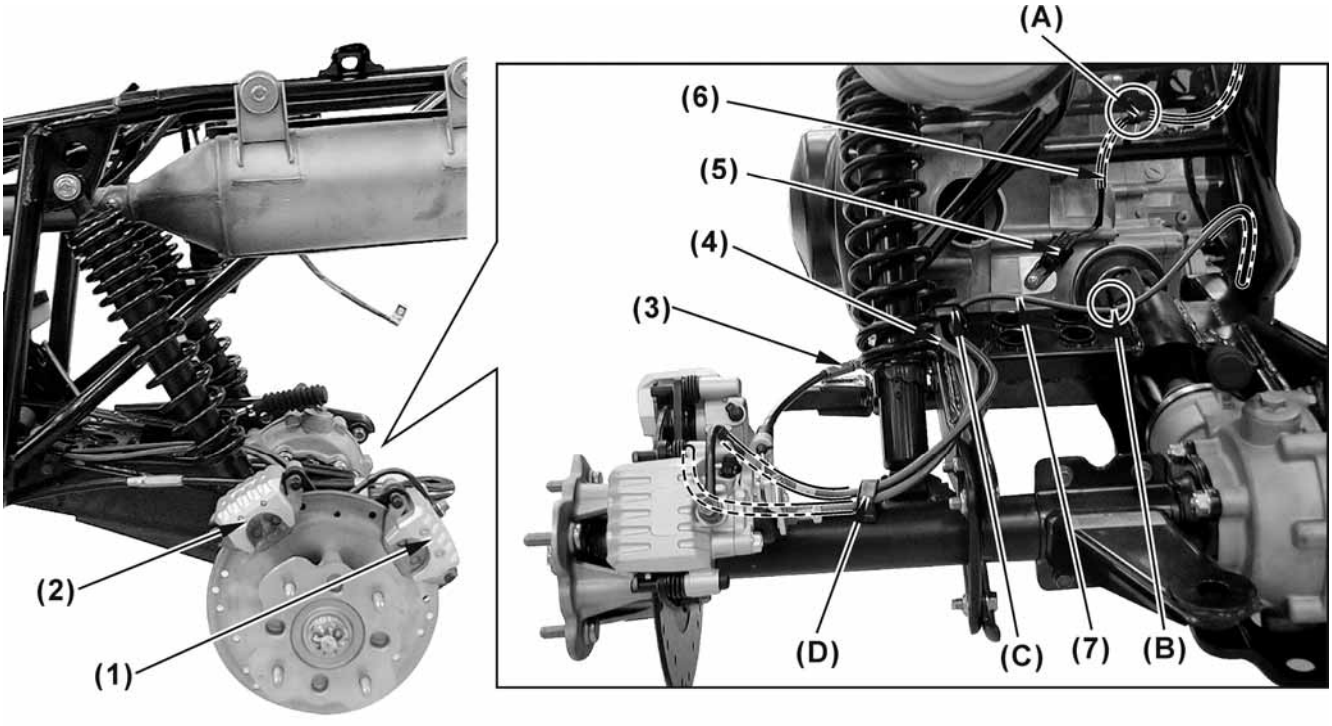
(1) Air bleed hose
(2) Upper radiator hose
(3) Air bleed hose
(4) AICV control solenoid valve
(5) Water bypass hose
(6) Air bleed hose
(7) Water joint
(8) Rear brake hose (Brake lever)
(9) Rear parking brake cable (ON ROAD)
(10) Water hose
(11) Thermostat

Pass the rear parking brake and rear brake hose through the guide (A), (B) and (C).



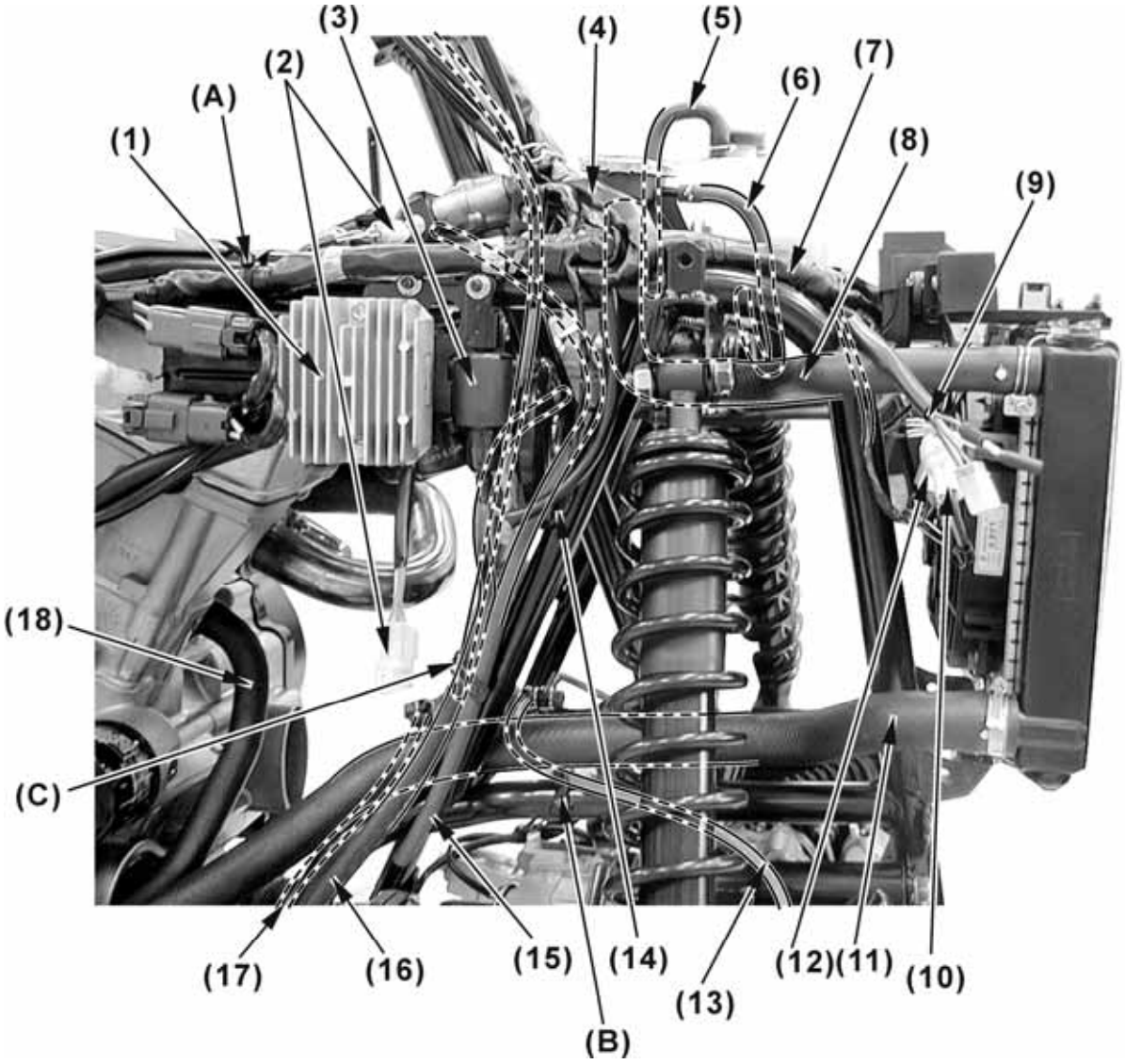
(1) Rear brake hose (Brake pedal)
(2) Rear parking brake cable (ON ROAD)
(3) Rear brake hose (Brake lever)

● Pass the rear parking brake cable (ON ROAD) and rear brake hose (Brake lever) through the guide (A), (B), (C), band (D) and guide (E).



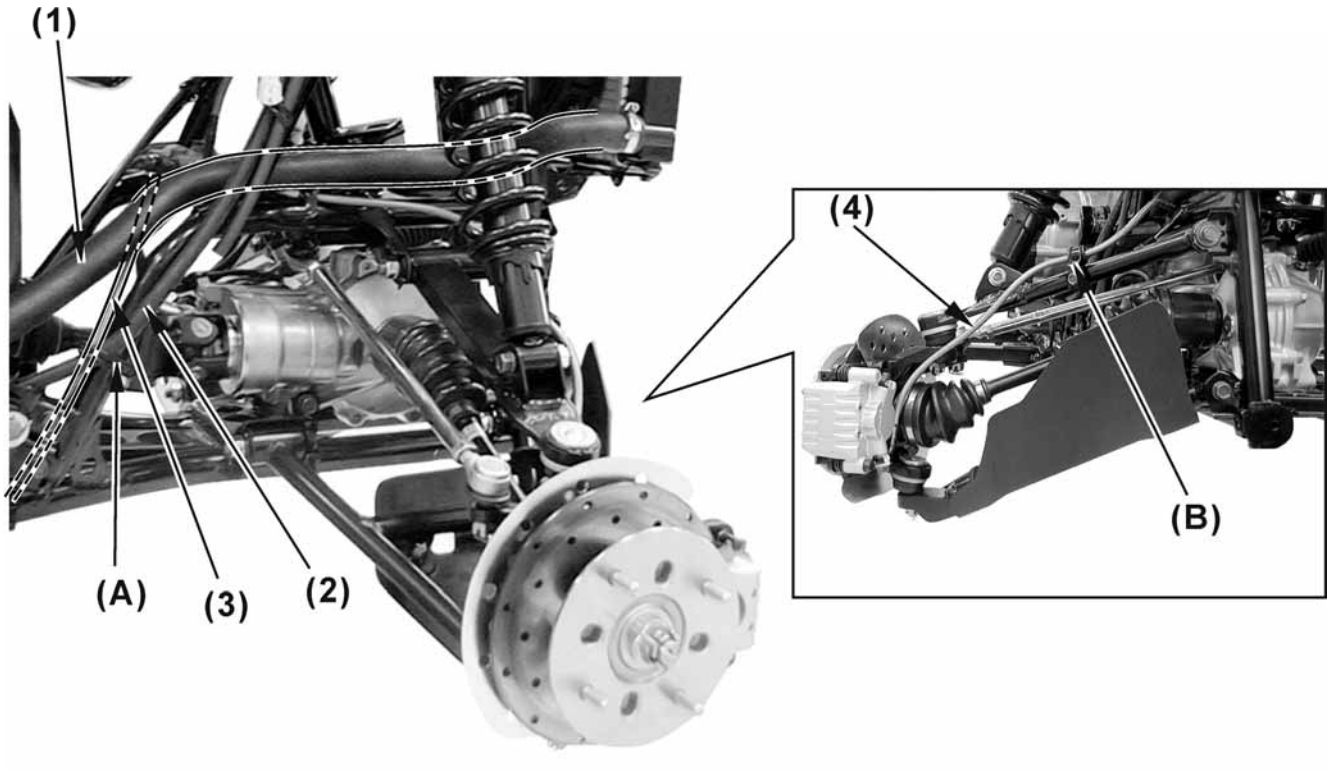
(1) Rear caliper (Brake pedal)
(2) Rear caliper (Brake lever)
(3) Rear parking brake cable (ON ROAD)
(4) Rear brake hose (Brake lever)
(5) Speed sensor
(6) Speed sensor wire
(7) Rear brake hose (Brake pedal)

(A) Pass the speed sensor wire through the guide.
(B) Pass the rear brake hose (Brake pedal) through the guide.
(C) Pass the rear brake hose (Brake pedal) and rear brake hose (Brake lever) through the guide.
(D) Pass the rear brake hose (Brake pedal) and rear brake hose (Brake lever) through the guide.



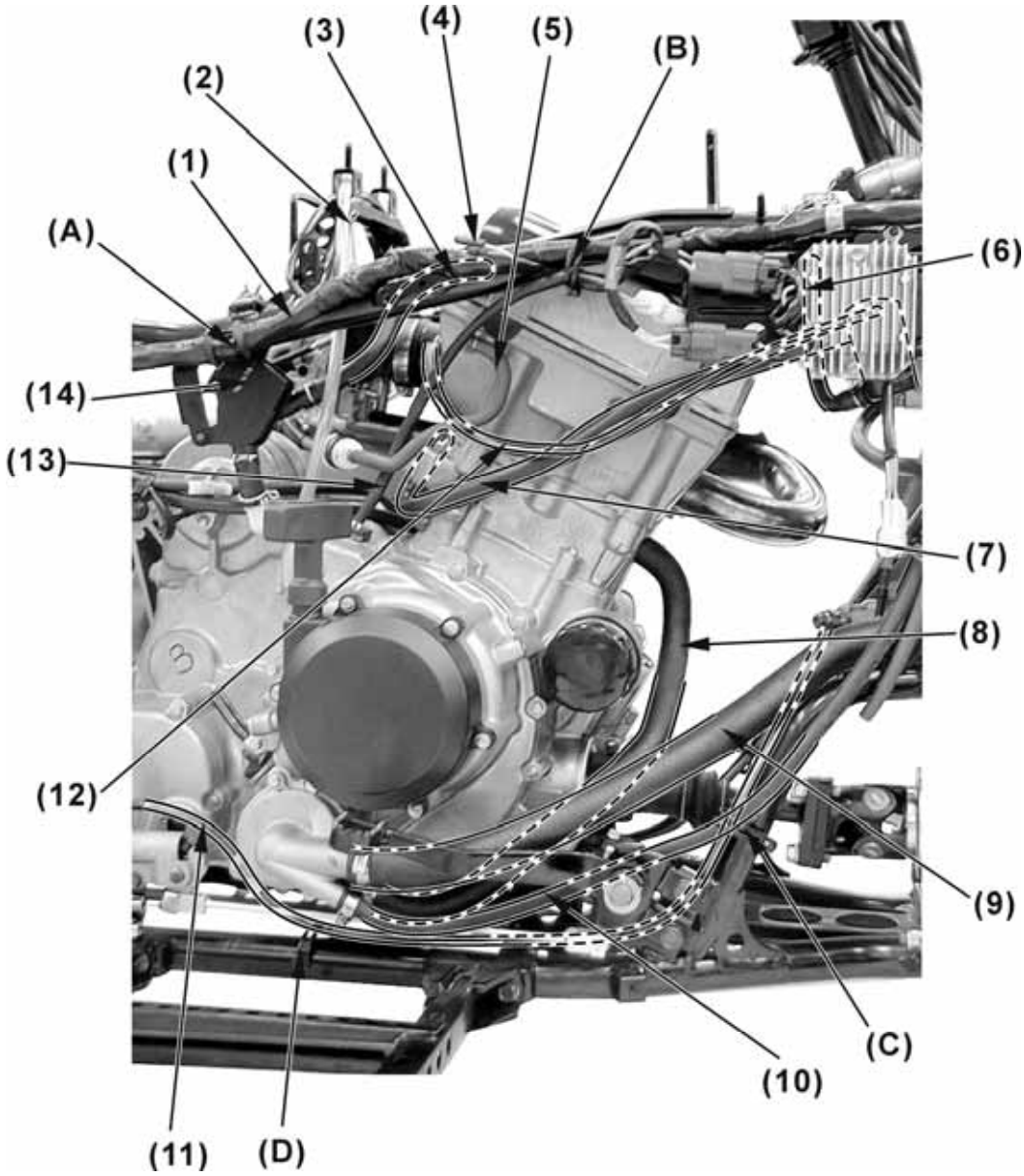
(1) Regulator/Rectifier
(2) Hazard connector (ON ROAD)
(3) Flasher relay (ON ROAD)
(4) Instrument wire
(5) Over flow hose (reserve tank)
(6) Siphon hose
(7) Harness wire
(8) Coolant filler hose
(9) Headlight connector
Right front turn signal light connectors (ON ROAD)
(10) Fan motor connector
(11) Low radiator hose
(12) EMI filter
(13) Front brake hose
(14) Horn (ON ROAD)
(15) Fuel flow hose
(16) Water bypass hose
(17) Combined brake hose (ON ROAD)
(18) water hose

(A) Pass the harness wire through the band.
(B) Pass the front brake hose through the guide.
(C) Pass the fuel flow hose and water bypass hose through the guide.



(1) Low radiator hose
(2) Water bypass hose
(3) Combined brake hose (ON ROAD)
(4) Front brake hose

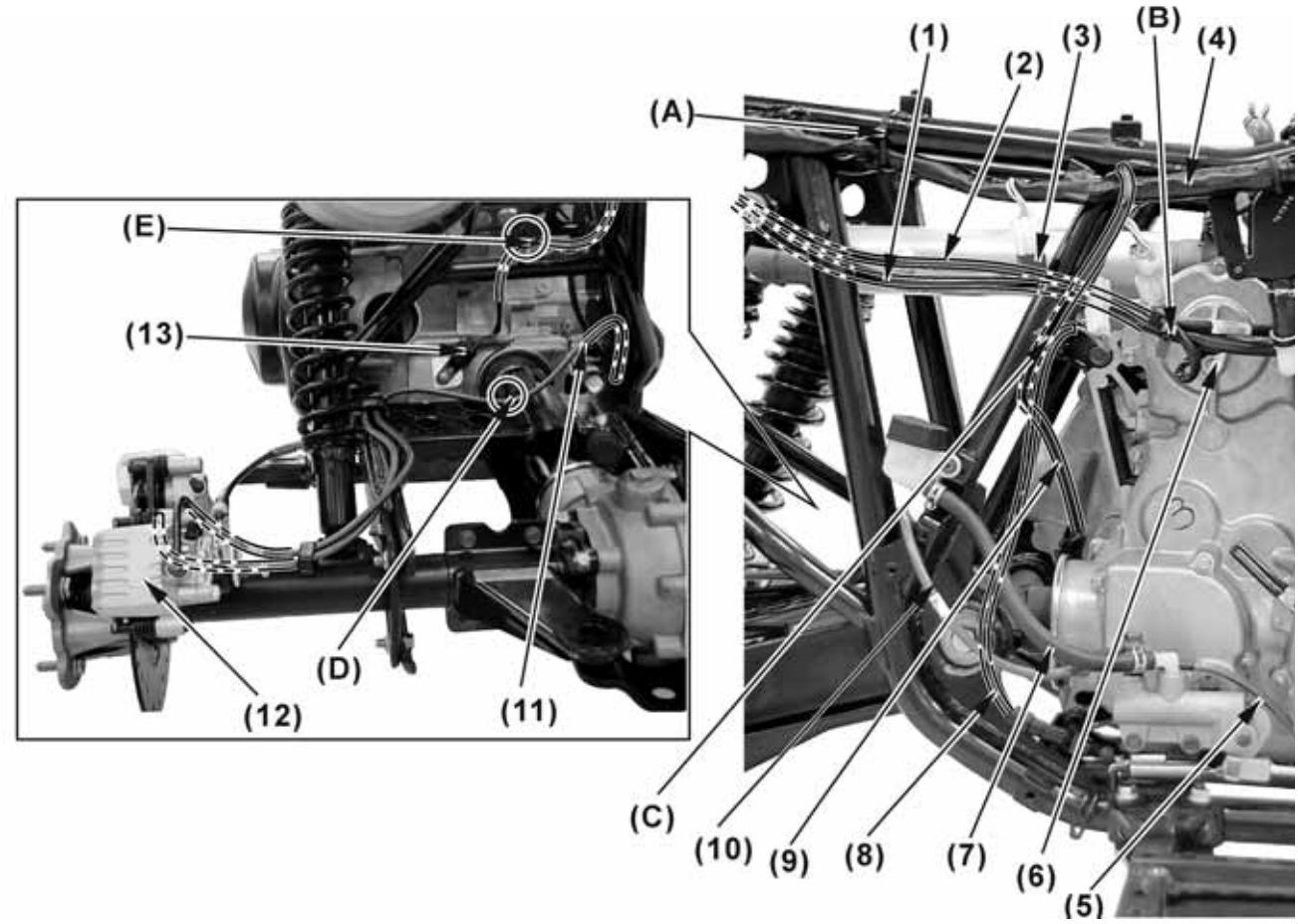
(A) Pass the front brake hose (combined) and water bypass hose through the guide.
(B) Pass the front brake hose through the guide.



(1) Harness wire
(2) Over flow (carburetor)
(3) Crankcase breather hose
(4) Fuel unit connectors
(5) Fuel hose
(6) AICV air supply hose
(7) AICV air supply hose (Note)
(8) Water hose
(9) Low radiator hose
(10) Water bypass hose
(11) Combined brake hose (ON ROAD)
(12) AICV vacuum hose (Note)
(13) A.C.G. wire
(14) Crankcase breather housing

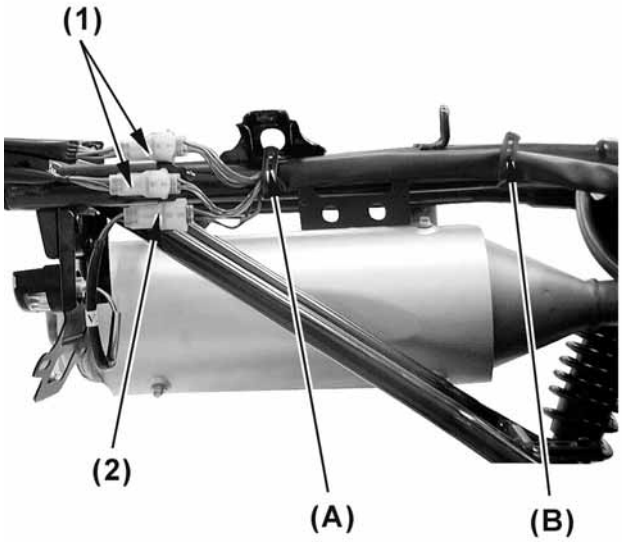
(A) Pass the harness wire through the guide.
(B) Pass the A.C.G. wire through the guide.
(C) Pass the combined brake hose (ON ROAD) and water bypass hose through the guide.
(D) Pass the combined brake hose (ON ROAD) through the guide.

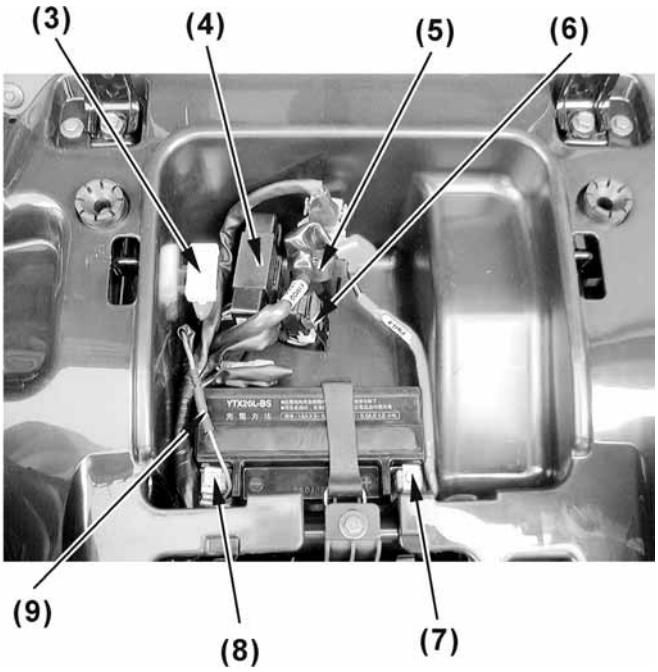
Note: Pass the AICV air supply hose and AICV vacuum hose through the guide (B).



(1) Starter motor cable
(2) Engine ground cable
(3) Clutch diode
(4) Harness wire
(5) Combined brake hose (ON ROAD)
(6) Gear position light switch
(7) Brake fluid filler hose
(8) Brake light switch
(9) Speed sensor wire
(10) Rear brake hose (Brake pedal)
(11) Rear brake hose (Brake pedal)
(12) Rear caliper (Brake pedal)
(13) Speed sensor

(A) Pass the harness wire through the band.
(B) Pass the gear position light switch wire, starter motor cable and engine ground cable through the band.
(C) Pass the speed sensor wire and brake light switch wire through the guide.
(D) Pass the rear brake hose (Brake pedal) through the guide.
(E) Pass the speed sensor wire through the guide.



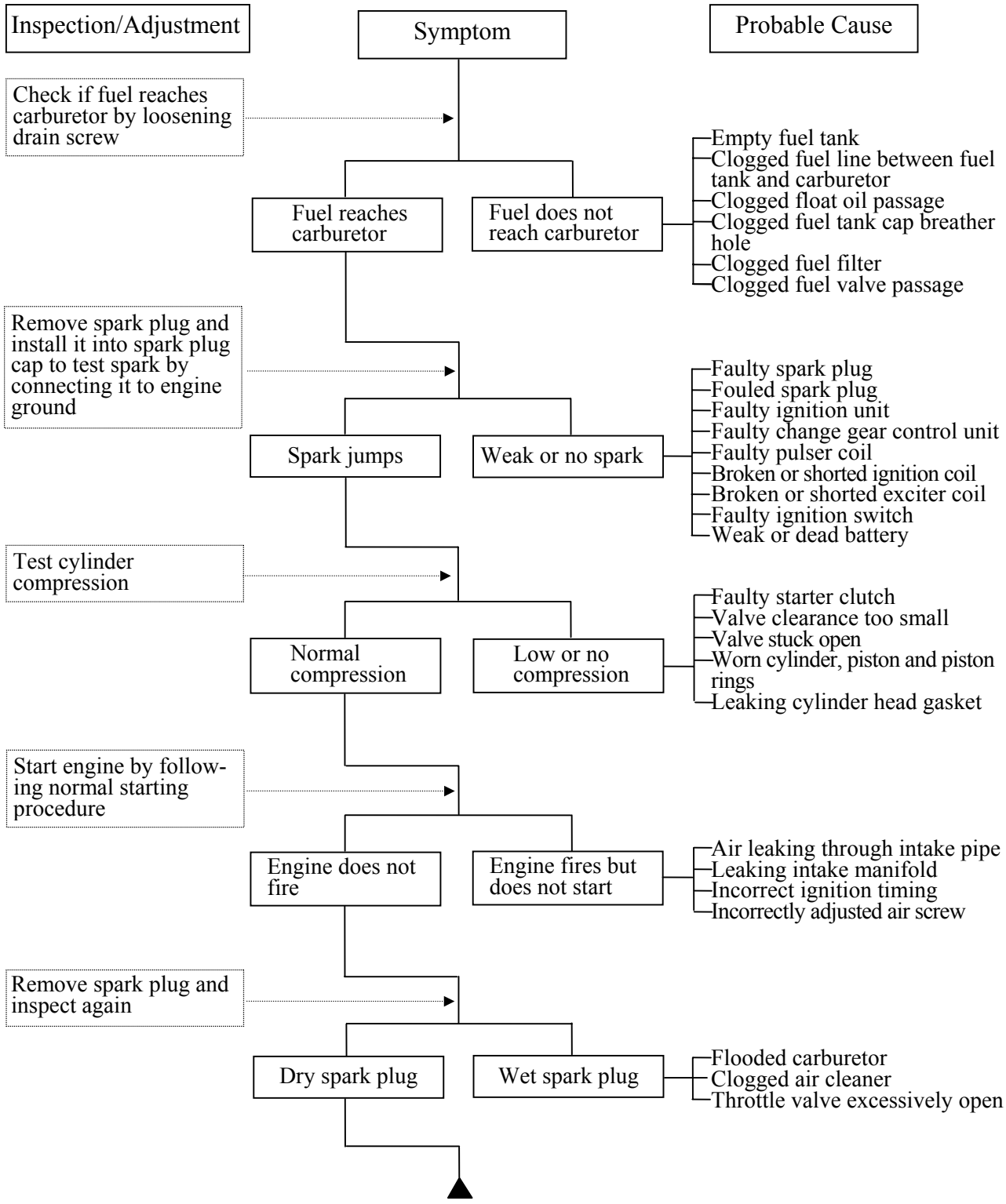


(1) Taillight/Brake light/Rear turn signal light connectors (OFF ROAD)
(1) Taillight/Brake light/Rear turn signal light connectors (ON ROAD)
(2) License light connector (ON ROAD)
(3) Fuse box
(4) Ignition unit
(5) Starter MAG
(6) Starter relay
(7) Positive terminal lead
(8) Negative terminal lead
(9) Frame ground wire

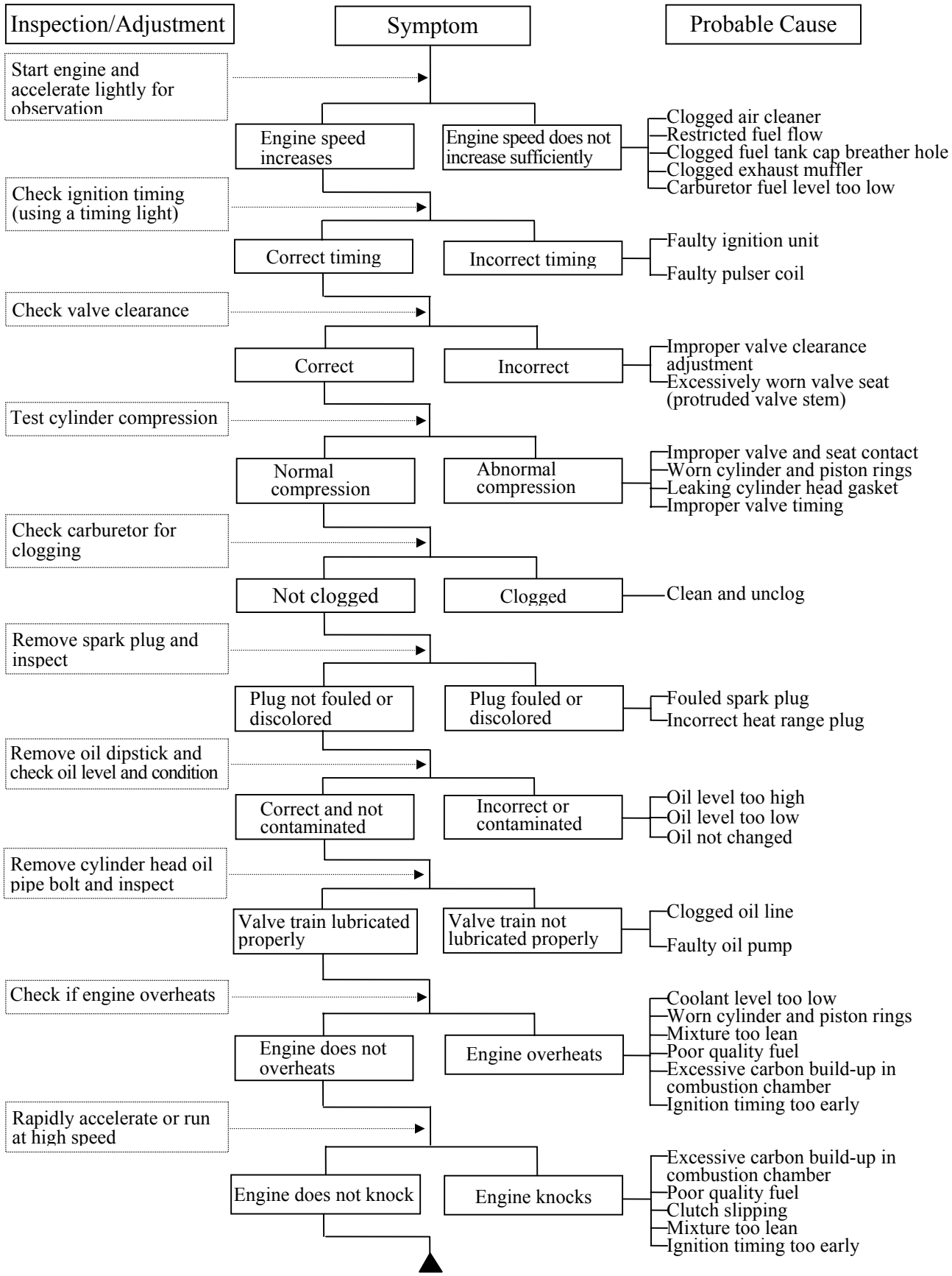
- Pass the harness wire through the guide (A) and (B).

TROUBLESHOOTING

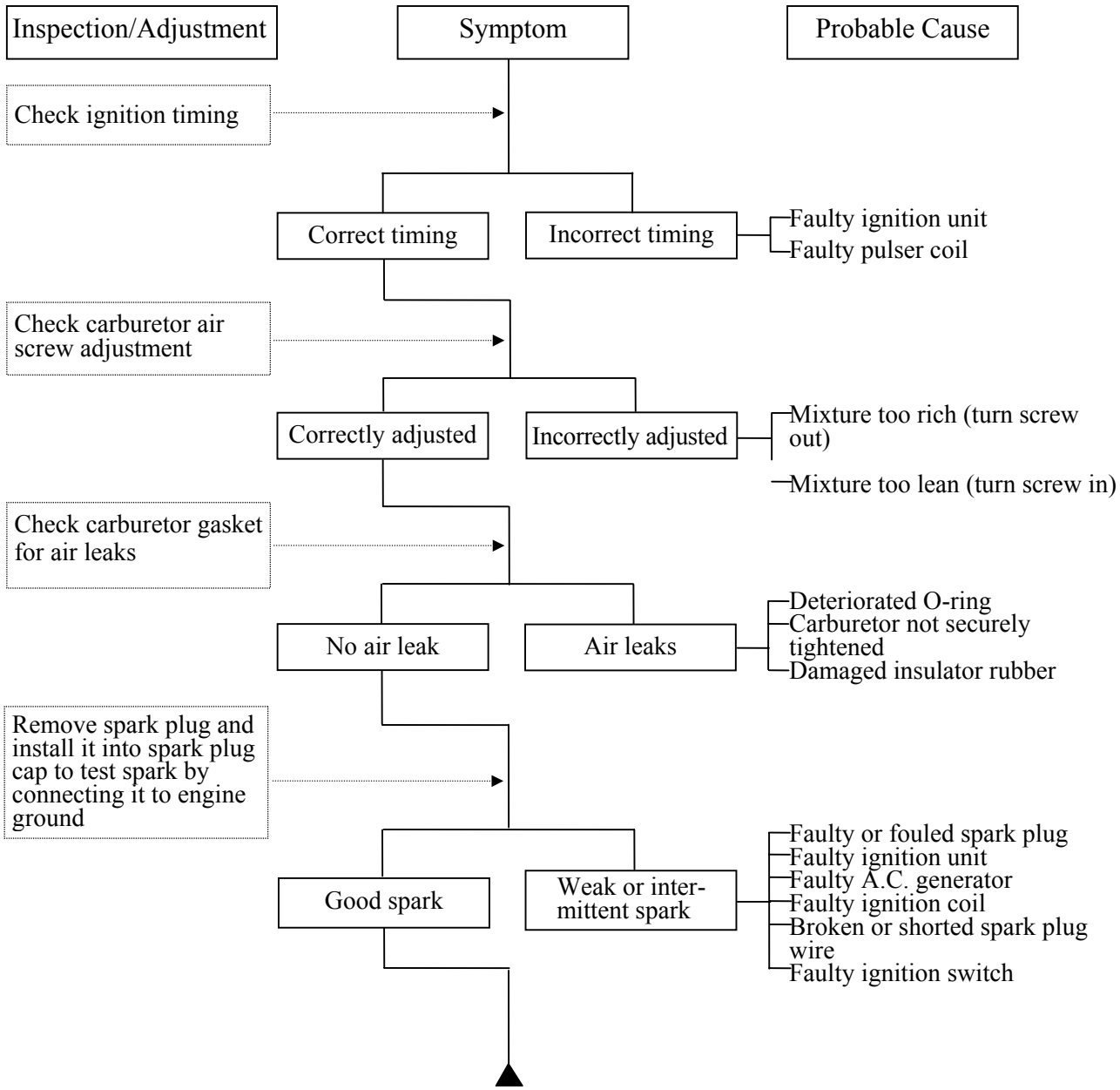
ENGINE WILL NOT START OR IS HARD TO START



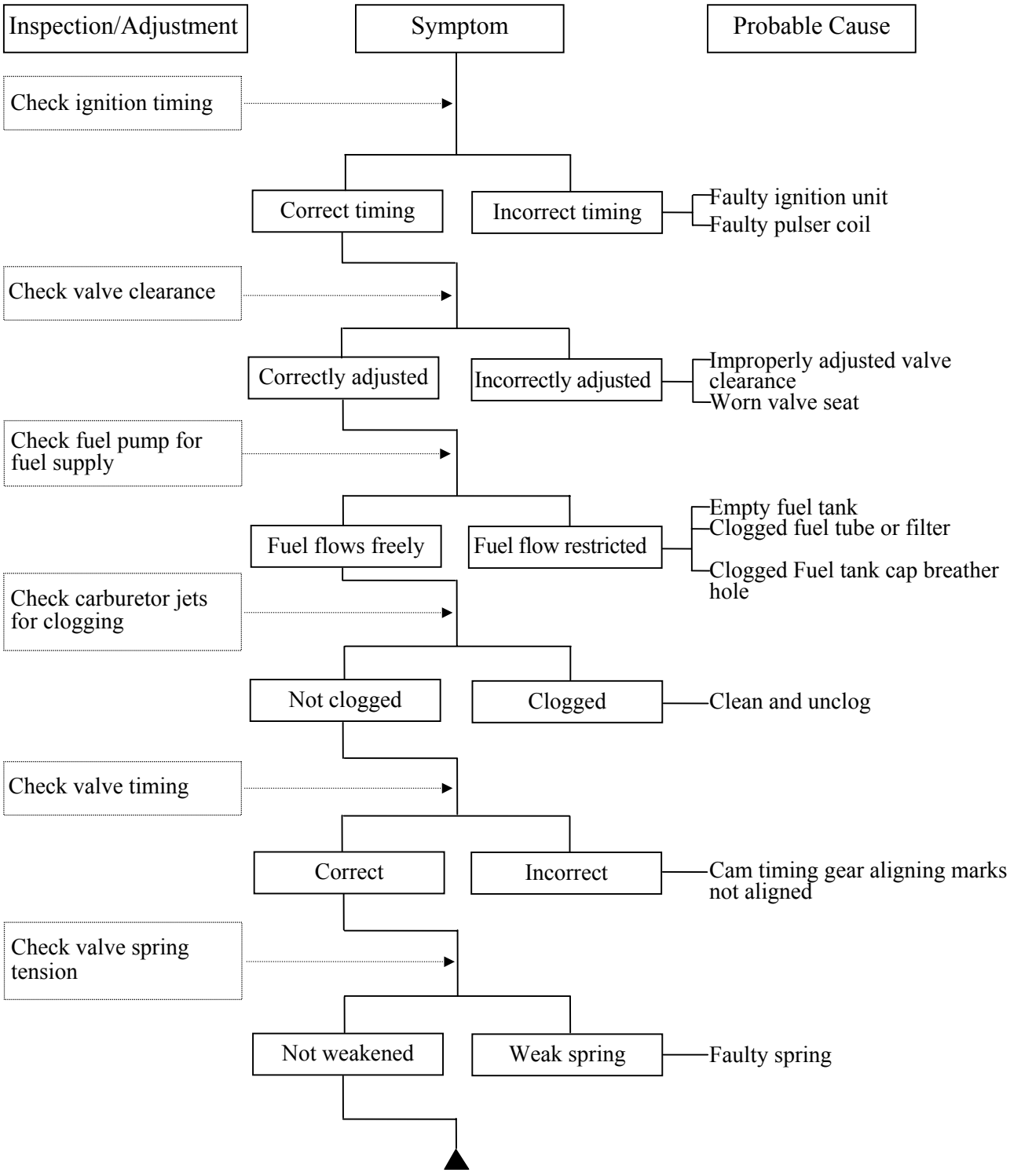
ENGINE LACKS POWER



POOR PERFORMANCE (ESPECIALLY AT IDLE AND LOW SPEEDS)

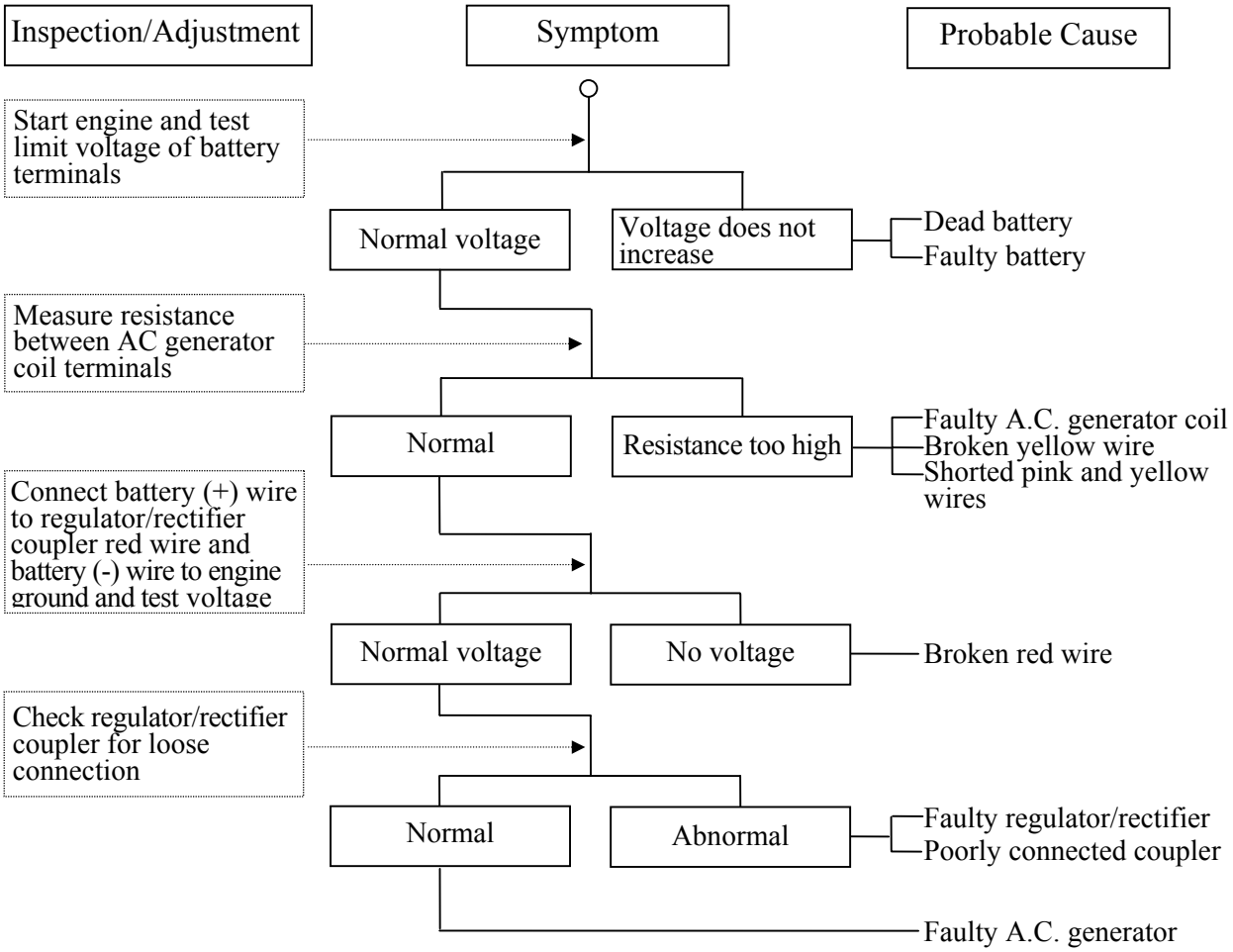


POOR PERFORMANCE (AT HIGH SPEED)

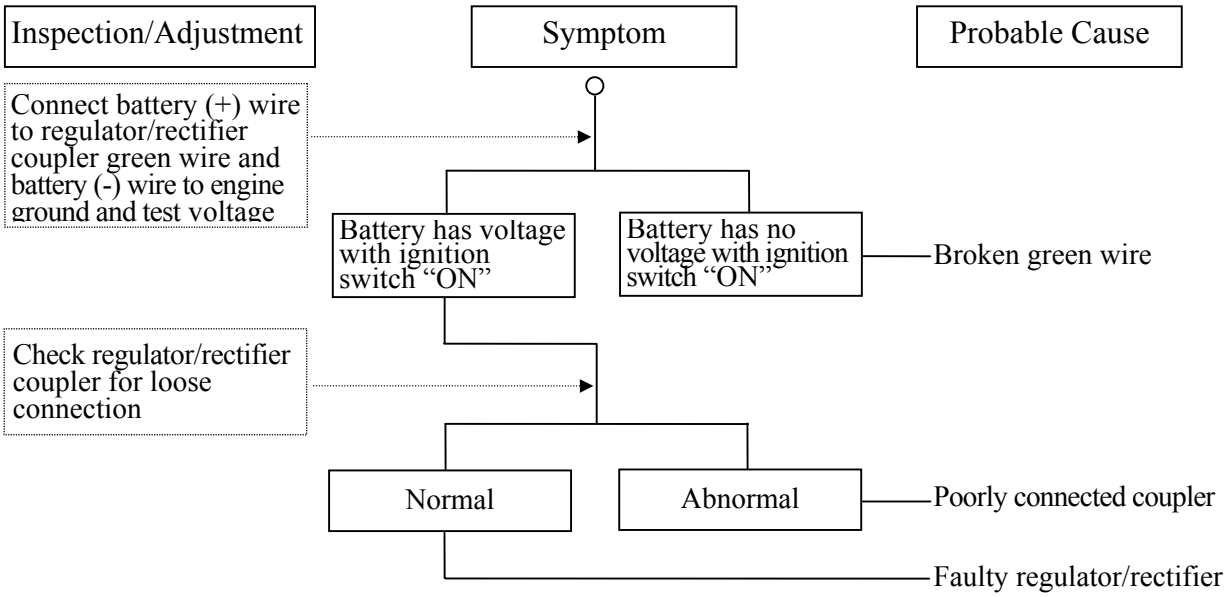


POOR CHARGING (BATTERY OVER DISCHARGING OR OVERCHARGING)

Undercharging



Overcharging



NO SPARK AT SPARK PLUG