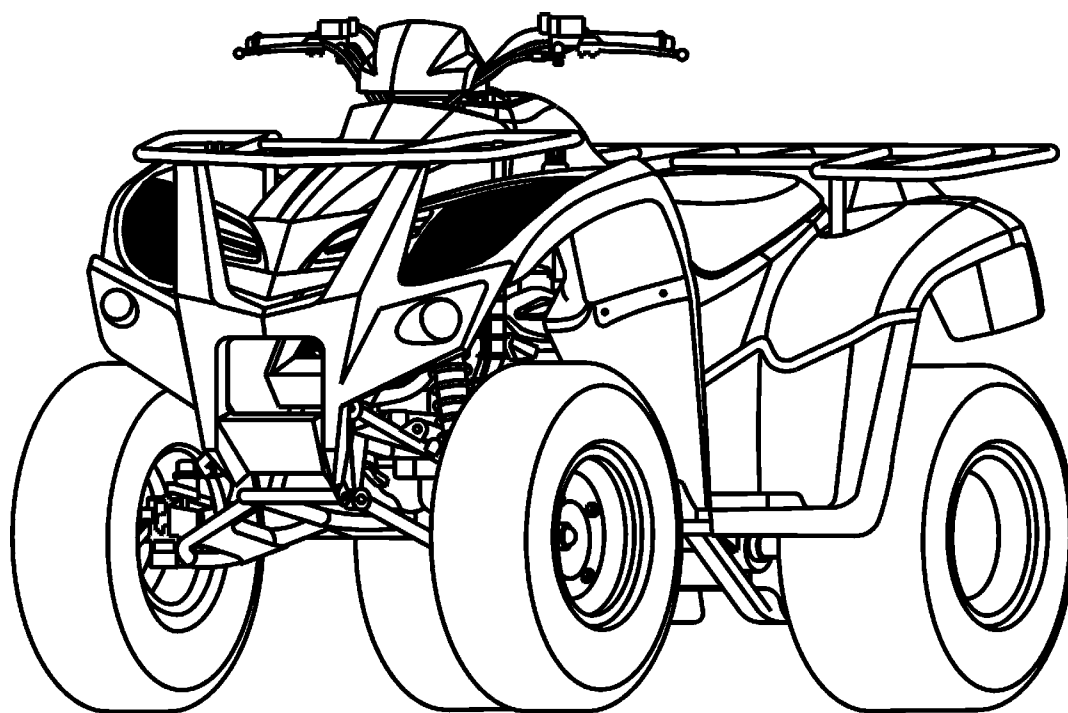


# **KYMCO**

# **SERVICE MANUAL**

**MXU 150**

**MX'er 150/125**



**Issued: 08.06.2005**

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# PREFACE

This Service Manual describes the technical features and servicing procedures for the KYMCO *ATV 150/125*.

Section 1 contains the precautions for all operations stated in this manual. Read them carefully before starting any operation.

Section 2 is the removal/installation procedures for the frame covers which are subject to higher removal/installation frequency during maintenance and servicing operations.

Section 3 describes the inspection/adjustment procedures, safety rules and service information for each part, starting from periodic maintenance.

Sections 4 through 18 give instructions for disassembly, assembly and inspection of engine, chassis frame and electrical equipment.

Most sections start with an assembly or system illustration and troubleshooting for the section. The subsequent pages give detailed procedures for the section.

The information and contents included in this manual may be different from the ATV in case specifications are changed.

KYMCO reserves the right to make changes at any time without notice and without incurring any obligation.

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**KWANG YANG MOTOR CO., LTD.**  
**OVERSEAS SALES DEPARTMENT**  
**OVERSEAS SERVICE SECTION**

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# 1. GENERAL INFORMATION

**1**

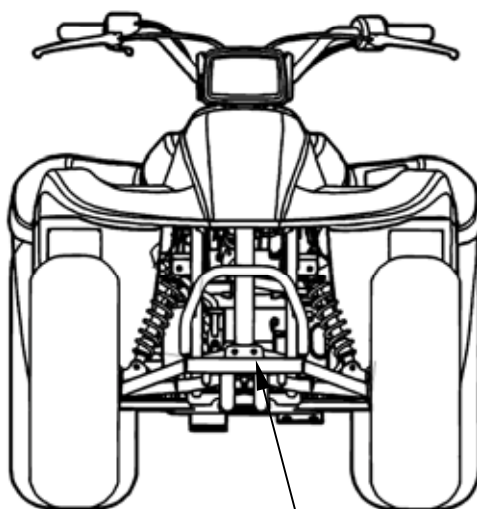
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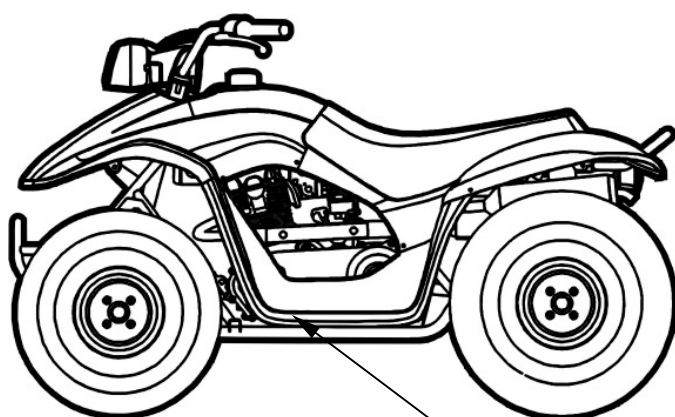
# 1. GENERAL INFORMATION

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## SERIAL NUMBER



Location of Frame Serial Number



Location of Engine Serial Number

# 1. GENERAL INFORMATION

## SPECIFICATIONS (MX'er 150)

Model No.			LA30	
ATV Name			MX'er 150	
Overall length			1600 mm (64 in)	
Overall width			980 mm (39.2 in)	
Overall height			990 mm (39.6 in)	
Wheel base			1120 mm (44.8 in)	
Engine type			O.H.C.	
Displacement			149.4 cc (9.1 cu-in)	
Fuel Used			92# unleaded gasoline	
Dry weight	Front wheel	74 kg (162.8 lbs)		
	Rear wheel	78 kg (171.6 lbs)		
	Total	152 kg (334.4 lbs)		
Gross weight	Front wheel	80 kg (176 lbs)		
	Rear wheel	82 kg (180.4 lbs)		
	Total	162 kg (356.4 lbs)		
Tires	Front wheel	20*7-8		
	Rear wheel	22*10-8		
Ground clearance			130 mm (5.2 in)	
Perform- ance	Breaking distance (m)(ANSI)		20.6 below	
	Min. turning radius (m)		3	
Engine	Starting system		Starting motor	
	Type		Gasoline, 4-stroke	
	Cylinder arrangement		Single cylinder	
	Combustion chamber type		Semi-sphere	
	Valve arrangement		O.H.C., chain drive	
	Bore x stroke		62 x 49.5 mm (2.48 x 1.98 in)	
	Compression ratio		9.7:1	
	Compression pressure (kg/cm <sup>2</sup> )		1600 kPa (16 kg/cm <sup>2</sup> , 227.2 psi)	
	Intake	Open	5.5° BTDC	
		Close	27.5° ABDC	
	Exhaust	Open	36° BBDC	
		Close	4° ATDC	
	Valve clearance	Intake	0.06 mm (0.0024 in)	
		Exhaust	0.06 mm (0.0024 in)	
	Idle speed			1700 rpm
	Lubrication System	Lubrication type		Forced pressure & wet sump
		Oil pump type		Inner/outer rotor type
		Oil filter type		Full-flow filtration
		Oil capacity		1 liter (0.88 lmp qt, 1.06 US qt)
Oil exchanging capacity		0.9 liter (0.79 lmp qt, 0.95 US qt)		
Cooling Type			Air cooling	

Fuel System	Air cleaner type & No		Sponge		
	Fuel capacity		8.1 liters (1.7 Imp gal, 2.11 Usgal)		
	Carburetor	Type	PD		
		Float lever	14.8 mm (0.592 in)		
		Venturi dia.	ϕ25 mm (ϕ1 in)		
		Throttle type	PISTON		
Electrical Equipment	Ignition System	Type	CDI		
		Ignition timing	15°BTDC/1700rpm		
		Contact breaker	Non-contact point type		
		Spark plug (NGK)	DE-8EA		
		Spark plug gap	0.6~0.7 mm (0.024~0.028 in)		
	Battery	Capacity	12V8AH		
Power Drive System	Clutch type		CVT		
	Primary reduction system		Helical gear/spur gear		
	Secondary reduction system		Chain drive		
	Primary reduction ratio		2.8-0.95		
	Secondary reduction ratio		7.226		
	Reverse ratio		26.902		
Moving Device	FR/RR tire rolling circumference		1596/1756 mm (63.84/70.24 in)		
	Tire pressure	Front	20 kPa (0.2 kg/cm <sup>2</sup> , 2.84 psi)		
		Rear	25 kPa (0.25 kg/cm <sup>2</sup> , 3.55 psi)		
	Turning angle	Left	44°		
		Right	44°		
Damping Device	Brake system type		Rear	Disk brake	Drum brake
			Front	Drum brake	
	Suspension type	Front	Swing		
		Rear	Swing arm		
	Shock type	Front	Swing		
		Rear	Swing arm		
	Frame type			Steel tube type	

# 1. GENERAL INFORMATION

**(MX'er 125)**

Model No.			LA25	
ATV Name			MX'er 125	
Overall length			1685 mm (67.4 in)	
Overall width			980 mm (39.2 in)	
Overall height			990 mm (39.6 in)	
Wheel base			1120 mm (44.8 in)	
Engine type			O.H.C.	
Displacement			124 cc (7.55 cu-in)	
Fuel Used			92# unleaded gasoline	
Dry weight	Front wheel	74 kg (162.8 lbs)		
	Rear wheel	78 kg (171.6 lbs)		
	Total	152 kg (334.4 lbs)		
Gross weight	Front wheel	80 kg (176 lbs)		
	Rear wheel	82 kg (180.4 lbs)		
	Total	162 kg (356.4 lbs)		
Tires	Front wheel	20*7-8		
	Rear wheel	22*10-8		
Ground clearance			130 mm (5.2 in)	
Performance	Breaking distance (m)(ANSI)		20.6 below	
	Min. turning radius (m)		2.5	
Engine	Starting system		Starting motor	
	Type		Gasoline, 4-stroke	
	Cylinder arrangement		Single cylinder	
	Combustion chamber type		Semi-sphere	
	Valve arrangement		O.H.C., chain drive	
	Bore x stroke		56.5 x 49.5 mm (2.26 x 1.98 in)	
	Compression ratio		9.2:1	
	Compression pressure (kg/cm <sup>2</sup> )		1400 kPa (14 kg/cm <sup>2</sup> , 198.8 psi)	
	Intake	Open	5.5° BTDC	
		Close	27.5° ABDC	
	Exhaust	Open	36° BBDC	
		Close	4° ATDC	
	Valve clearance	Intake	0.06 mm (0.0024 in)	
		Exhaust	0.06 mm (0.0024 in)	
	Idle speed		1700 rpm	
	Lubrication System	Lubrication type		Forced pressure & wet sump
		Oil pump type		Inner/outer rotor type
		Oil filter type		Full-flow filtration
		Oil capacity		1 liter (0.88 Imp qt, 1.06 US qt)
		Oil exchanging capacity		0.9 liter (0.79 Imp qt, 0.95 US qt)
	Cooling Type			Air cooling

Fuel System	Air cleaner type & No		Sponge		
	Fuel capacity		8.1 liters (1.7 lmp gal, 2.11 Usgal)		
	Carburetor	Type	PD		
		Float lever	14.8 mm (0.592 in)		
		Venturi dia.	φ25 mm (φ1 in)		
		Throttle type	PISTON		
Electrical Equipment	Ignition System	Type	CDI		
		Ignition timing	15°BTDC/1700rpm		
		Contact breaker	Non-contact point type		
		Spark plug (NGK)	DR-8EA		
		Spark plug gap	0.6~0.7 mm (0.024~0.028 in)		
	Battery	Capacity	12V8AH		
	Power Drive System	Clutch type		CVT	
Primary reduction system		Helical gear/spur gear			
Secondary reduction system		Chain drive			
Primary reduction ratio		2.8-0.95			
Secondary reduction ratio		7.226			
Reverse ratio		26.902			
Moving Device		FR/RR tire rolling circumference		1596/1756 mm (63.84/70.24 in)	
	Tire pressure	Front	20 kPa (0.2 kg/cm <sup>2</sup> , 2.84 psi)		
		Rear	25 kPa (0.25 kg/cm <sup>2</sup> , 3.55 psi)		
	Turning angle	Left	44°		
		Right	44°		
	Brake system type		Rear	Disk brake	Drum brake
			Front	Drum brake	
Damping Device	Suspension type	Front	Swing		
		Rear	Swing arm		
	Shock type	Front	Swing		
		Rear	Swing arm		
Frame type			Steel tube type		

# 1. GENERAL INFORMATION

**(MXU 150)**

Model No.			LA30			
ATV Name			MXU 150			
Overall length			1775 mm (71 in)			
Overall width			950 mm (38 in)			
Overall height			1040 mm (41.6 in)			
Wheel base			1115 mm (44.6 in)			
Engine type			OHC			
Displacement			149 cc (9.1 cu-in)			
Fuel Used			92# unleaded gasoline			
Dry weight		Front wheel	87 kg (191.4 lbs)			
		Rear wheel	88 kg (193.6 lbs)			
		Total	175 kg (385 lbs)			
Gross weight		Front wheel	92 kg (202.4 lbs)			
		Rear wheel	93 kg (204.6 lbs)			
		Total	185 kg (407 lbs)			
Tires		Front wheel	21*7-10			
		Rear wheel	22*10-10			
Ground clearance			155 mm (6.2 in)			
Perform- ance	Breaking distance (m)(ANSI)		20.6 below			
	Min. turning radius (m)		3			
Engine	Starting system		Starting motor			
	Type		Gasoline, 4-stroke			
	Cylinder arrangement		Single cylinder			
	Combustion chamber type		Semi-sphere			
	Valve arrangement		O.H.C., chain drive			
	Bore x stroke		62 x 49.5 (2.48 x 1.98 in)			
	Compression ratio		9.7:1			
	Compression pressure		1600 kPa (16 kg/cm <sup>2</sup> , 227.2 psi)			
	Intake	Open	5.5° BTDC			
		Close	27.5° ABDC			
	Exhaust	Open	36° BBDC			
		Close	4° ATDC			
	Valve clearance	Intake	0.06 mm (0.0024 in)			
		Exhaust	0.06 mm (0.0024 in)			
	Idle speed		1700 rpm			
	Lubrication System	Lubrication type		Forced pressure & Wet sump		
		Oil pump type		Inner/outer rotor type		
		Oil filter type		Full-flow filtration		
		Oil capacity		1 liter (0.88 Imp qt, 1.06 US qt)		
		Oil exchanging capacity		0.9 liter (0.79 Imp qt, 0.95 US qt)		
	Cooling Type		Air cooling			

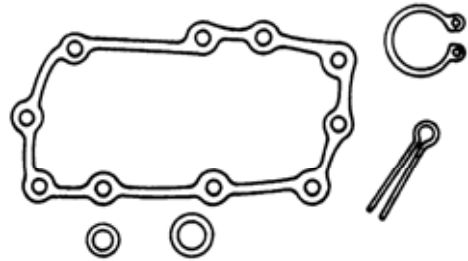
Fuel System	Air cleaner type & No		Sponge	
	Fuel capacity		8.1 liters (1.7 Imp gal, 2.11 Usgal)	
	Carburetor	Type	PD	
		Piston dia.	14.8 mm (0.592 in)	
		Venturi dia.(mm)	ϕ25 mm (ϕ1 in)	
Throttle type		PISTON		
Electrical Equipment	Ignition System	Type	CDI	
		Ignition timing	15°BTDC/1700rpm	
		Contact breaker	Non-contact point type	
		Spark plug (NGK)	DR-8EA	
		Spark plug gap	0.6~0.7 mm (0.024~0.028 in)	
	Battery	Capacity	12V8AH	
Power Drive System	Clutch type		CVT	
	Primary reduction system		Helical gear/spur gear	
	Secondary reduction system		Chain drive	
	Primary reduction ratio		2.8-0.95	
	Secondary reduction ratio		7.226	
	Reverse ratio		26.902	
Moving Device	FR/RR tire rolling circumference		1675/1756 mm (67/70.24 in)	
	Tire pressure	Front	28 Kpa (0.28 kg/cm <sup>2</sup> , 3.976 psi)	
		Rear	28 Kpa (0.28 kg/cm <sup>2</sup> , 3.976 psi)	
	Turning angle	Left	40°	
		Right	40°	
Brake system type		Rear	Disk brake	Drum brake
		Front	Drum brake	
Damping Device	Suspension type	Front	Swing	
		Rear	Swing arm	
	Shock type	Front	Swing	
		Rear	Swing arm	
Frame type			Steel tube pipe	



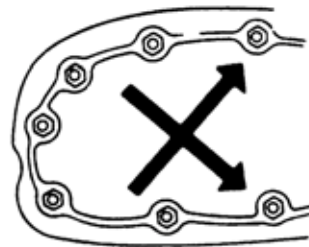
# 1. GENERAL INFORMATION

## SERVICE PRECAUTIONS

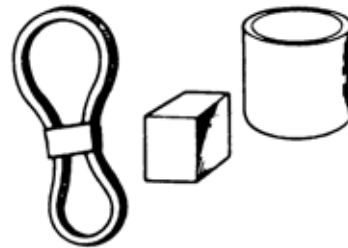
- Make sure to install new gaskets, O-rings, circlips, cotter pins, etc. when reassembling.



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



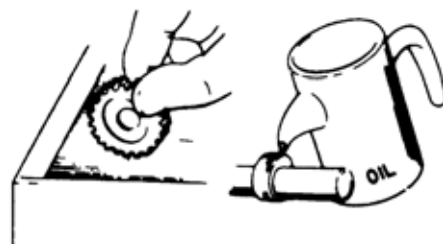
- Use genuine parts and lubricants.



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

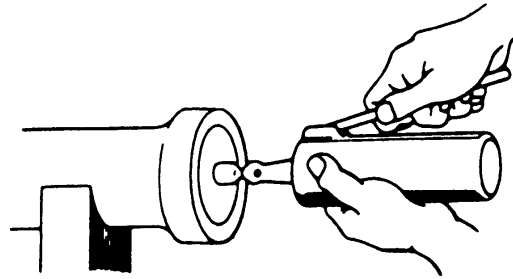


- After disassembly, clean removed parts. Lubricate sliding surfaces with engine oil before reassembly.

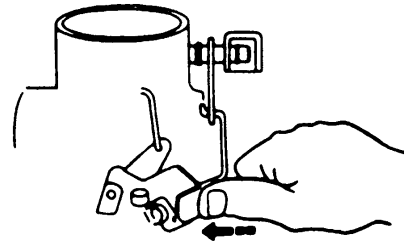


# 1. GENERAL INFORMATION

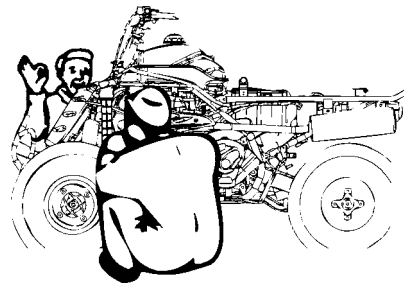
- Apply or add designated greases and lubricants to the specified lubrication points.



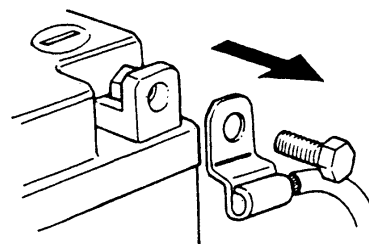
- After reassembly, check all parts for proper tightening and operation.



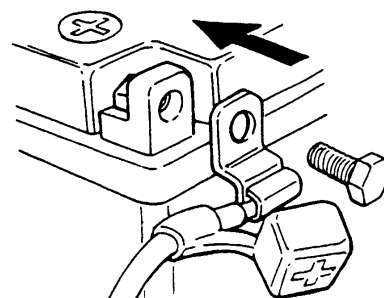
- When two persons work together, pay attention to the mutual working safety.



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

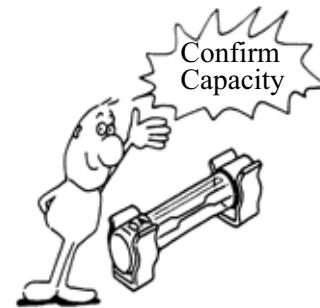


- After operation, check all connecting points, fasteners, and lines for proper connection and installation.
- When connecting the battery, the positive (+) terminal must be connected first.
- After connection, apply grease to the battery terminals.
- Terminal caps shall be installed securely.



# 1. GENERAL INFORMATION

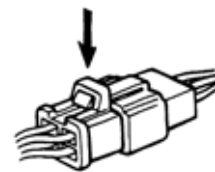
- If the fuse is burned out, find the cause and repair it. Replace it with a new one according to the specified capacity.



- After operation, terminal caps shall be installed securely.



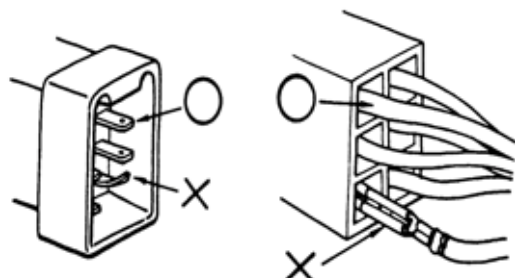
- When taking out the connector, the lock on the connector shall be released before operation.



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

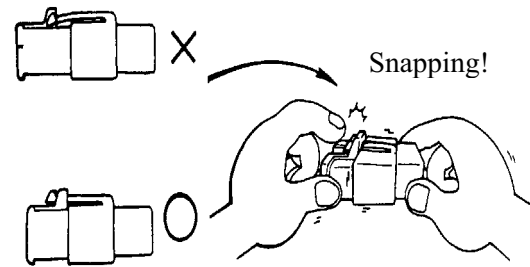


- Check if any connector terminal is bending, protruding or loose.

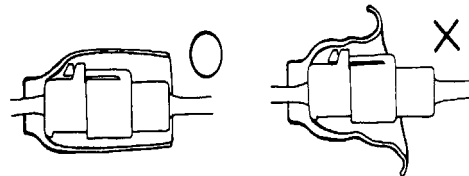


# 1. GENERAL INFORMATION

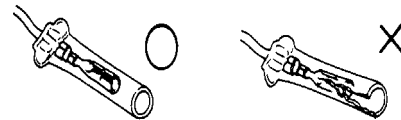
- The connector shall be inserted completely.
- If the double connector has a lock, lock it at the correct position.
- Check if there is any loose wire.



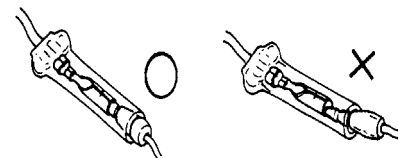
- Before connecting a terminal, check for damaged terminal cover or loose negative terminal.



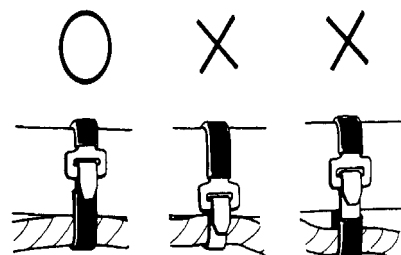
- Check the double connector cover for proper coverage and installation.



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

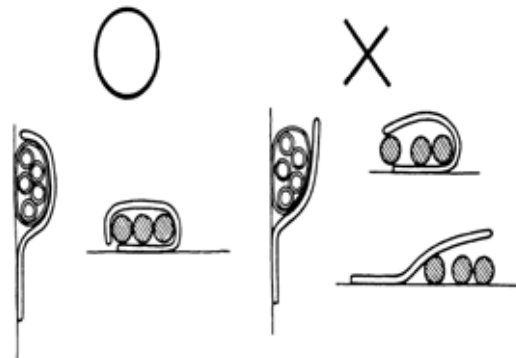


- Secure wire harnesses to the frame with their respective wire bands at the designated locations. Tighten the bands so that only the insulated surfaces contact the wire harnesses.



# 1. GENERAL INFORMATION

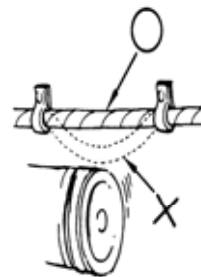
- After clamping, check each wire to make sure it is secure.



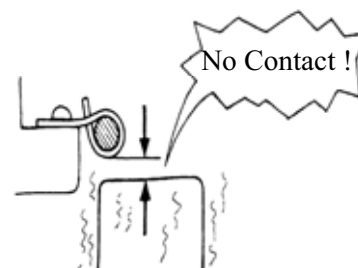
- Do not squeeze wires against the weld or its clamp.



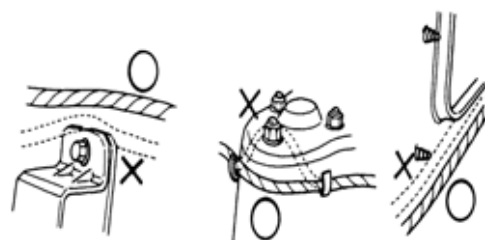
- After clamping, check each harness to make sure that it is not interfering with any moving or sliding parts.



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

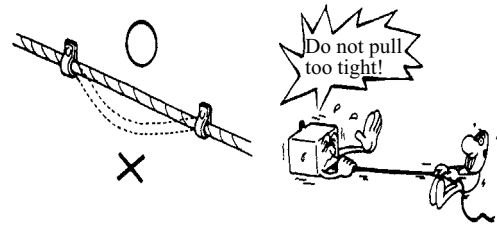


- Route wire harnesses to avoid sharp edges or corners. Avoid the projected ends of bolts and screws.
- Route wire harnesses passing through the side of bolts and screws. Avoid the projected ends of bolts and screws.

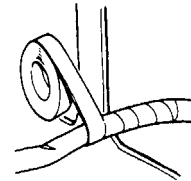


# 1. GENERAL INFORMATION

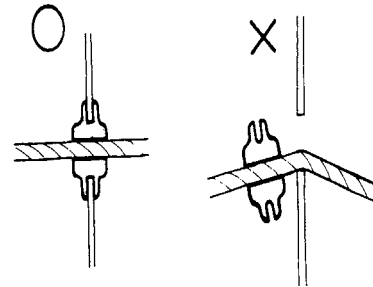
- Route harnesses so they are neither pulled tight nor have excessive slack.



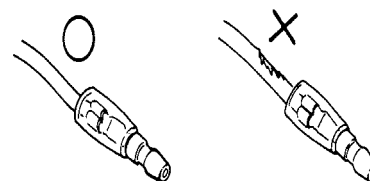
- Protect wires and harnesses with electrical tape or tube if they contact a sharp edge or corner.



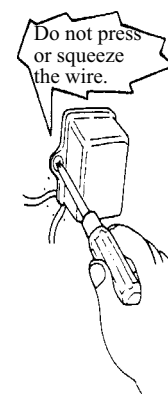
- When rubber protecting cover is used to protect the wire harnesses, it shall be installed securely.



- 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.

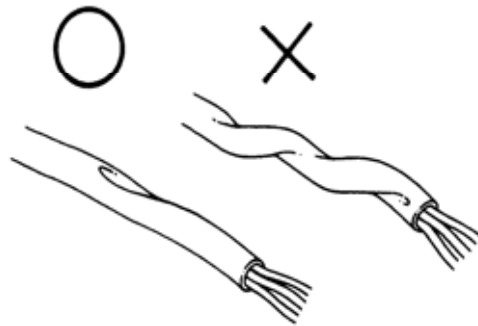


- When installing other parts, do not press or squeeze the wires.

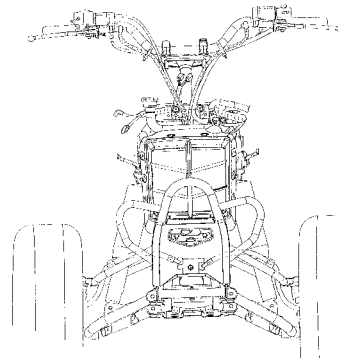


# 1. GENERAL INFORMATION

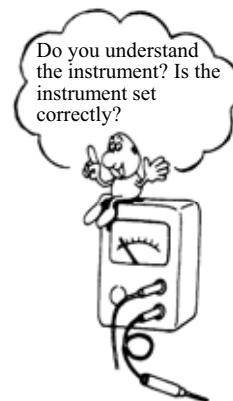
- After routing, check that the wire harnesses are not twisted or kinked.



- 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.



# 1. GENERAL INFORMATION

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## ■ Symbols:

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



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



: Apply grease for lubrication.



: Transmission Gear Oil (90#)



: Note



: Warning



# 1. GENERAL INFORMATION

## 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
Stud bolt	4	8	0.9 (9, 6.5)	
Oil filter screen cap	1	30	1.5 (15, 11)	
Seat ball stopper bolt	1	14	4.8 (48, 35)	
L cover	8	6	1.2 (12, 8.6)	
Cam holder	4	8	2 (20, 14)	Apply oil
Tappet ADJ nut	2	6	0.9 (9, 6.5)	Apply oil
Pivot tensioner	1	8	1 (10, 7)	
Lifter tensioner	2	6	1.2 (12, 8.6)	
Lifter tensioner	1	6	0.4 (4, 2.9)	
Right crankcase bolt	9	6	1 (10, 7)	
Driver face	1	12	6 (60, 43)	Apply oil
Clutch outer	1	12	5.5 (55, 40)	
Balancer shaft nut	1	16	4.5 (45, 32)	Left threaded
Start clutch nut	1	22	9.5 (95, 68)	Apply oil, Left threaded
ACG flywheel	1	14	5.5 (55, 40)	
Spark plug	1	8	1.5 (15, 11)	
Drain bolt mission	1	8	1 (10, 7)	
Drain plug	1	12	2.5 (25, 18)	
Motor start	2	6	1 (10, 7)	
Oil pump	2	6	1 (10, 7)	
Oil pump sprocket	2	6	1 (10, 7)	
Head CYL bolt	2	6	1 (10, 7)	
Drive plate nut	1	28	5.5 (55, 40)	
Stator	4	5	1 (10, 7)	

# 1. GENERAL INFORMATION

## ENGINE (Cont'd)

Item	Q'ty	Thread dia. (mm)	Torque kgf-m (N-m, lbf-ft)	Remarks
R cover	9	6	1 (10, 7)	
Head cover	4	6	1 (10, 7)	
Cap R cover	1	6	1 (10, 7)	
Guide star change handle	3	6	1 (10, 7)	
Sprocket drive plate	2	6	1 (10, 7)	
Carburetor	2	6	1 (10, 7)	
Transmission oil check bolt	1	10	1.2 (12, 9)	

## FRAME

Item	Q'ty	Thread dia. (mm)	Torque kgf-m (N-m, lbf-ft)	Remarks
Steering stem nut	1	14	7 (70, 50)	
Swing arm nut	4	10	4.5 (45, 32)	
Rear wheel nut	2	14	7 (70, 50)	
Front wheel nut	2	14	7 (70, 50)	
Rear shock absorber upper mount bolt	1	10	4 (40, 29)	
Front shock absorber upper mount bolt	2	10	4 (40, 29)	
Front shock absorber lower mount bolt	2	10	4 (40, 29)	
Rear fork axle	1	14	7 (70, 50)	
Rear hub nut	4	12	7 (70, 50)	
<b>Rear wheel shaft nut</b>	<b>2</b>	<b>32</b>	<b>12 (120, 86)</b>	
Rear engine bracket up bolt	1	10	4 (40, 29)	
Rear engine bracket bolt	1	10	4 (40, 29)	
Engine hanger bracket bolt	1	10	4 (40, 29)	
Exhaust muffler lock bolt	2	8	3.5 (35, 25)	

# 1. GENERAL INFORMATION

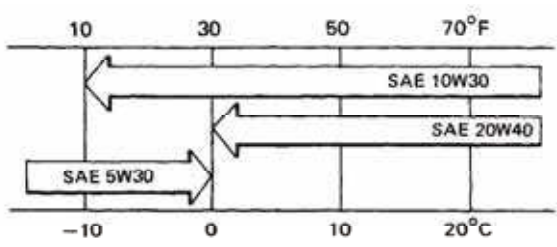
## SPECIAL TOOLS

Tool Name	Tool No.	Remarks
Flywheel puller	E003	Flywheel removal
Lock nut wrench	E009	Start clutch nut removal/installation
Lock nut wrench	E010	Balancer gear nut removal/installation
Valve adjuster	E012	Valve clearance adjustment
Valve spring compressor	E040	Cylinder head disassembly/assembly
Oil seal and bearing install	E014	
Universal holder	E017	Clutch outer nut removal/installation
Flywheel holder	E021	Flywheel nut removal/installation
Clutch spring compressor	E034	Driven pulley clutch removal/installation
Bearing puller	E037	
Nut wrench	F010	Rear axle nut removal/installation

# 1. GENERAL INFORMATION

## LUBRICATION POINTS

### ENGINE

Lubrication Points	Lubricant
Valve guide/valve stem movable part Cam lobes Valve rocker arm friction surface Cam chain Cylinder lock bolt and nut Piston surroundings and piston ring grooves Piston pin surroundings Cylinder inside wall Connecting rod/piston pin hole Connecting rod big end Crankshaft right side oil seal Crankshaft one-way clutch movable part Oil pump drive chain Balance gear A.C. generator Starter one-way clutch Bearing movable part O-ring face Oil seal lip	<ul style="list-style-type: none"> <li>•Genuine KYMCO Engine Oil (SAE15W-40)</li> <li>•API SG Engine Oil</li> </ul> 
Transmission gear and movable parts	Gear oil: SAE90#

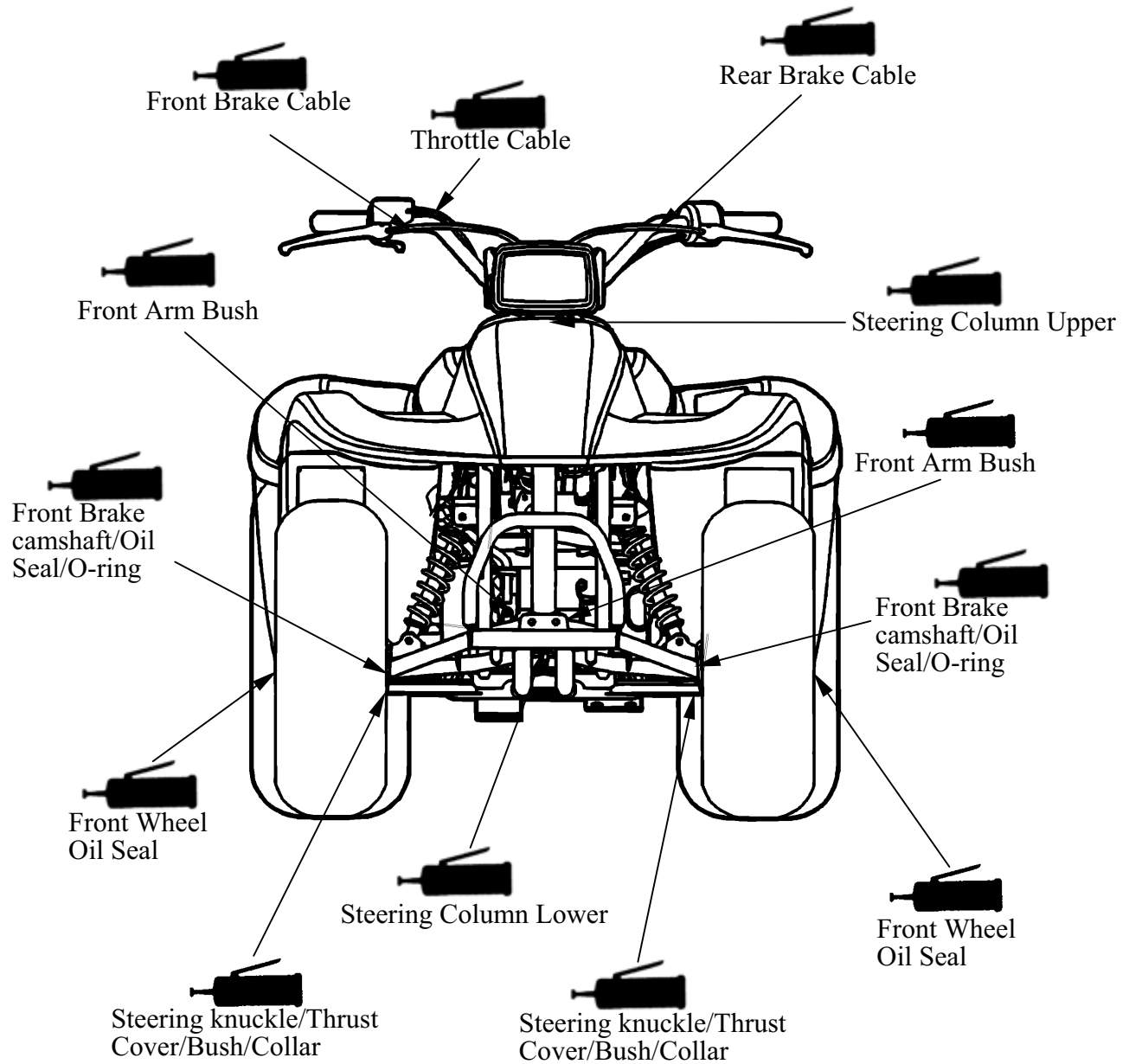
# 1. GENERAL INFORMATION

## FRAME

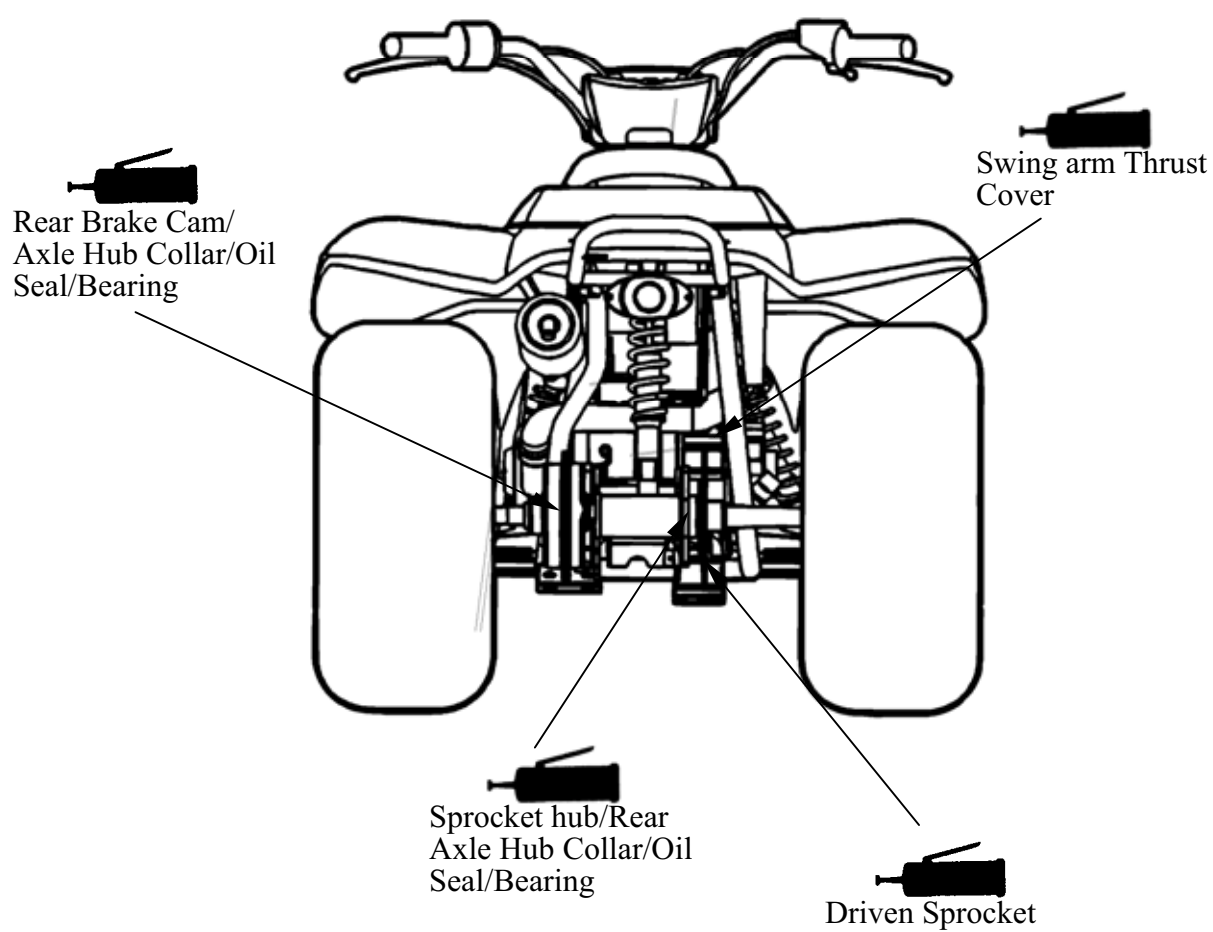
The following is the lubrication points for the frame.

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 motorcycle.

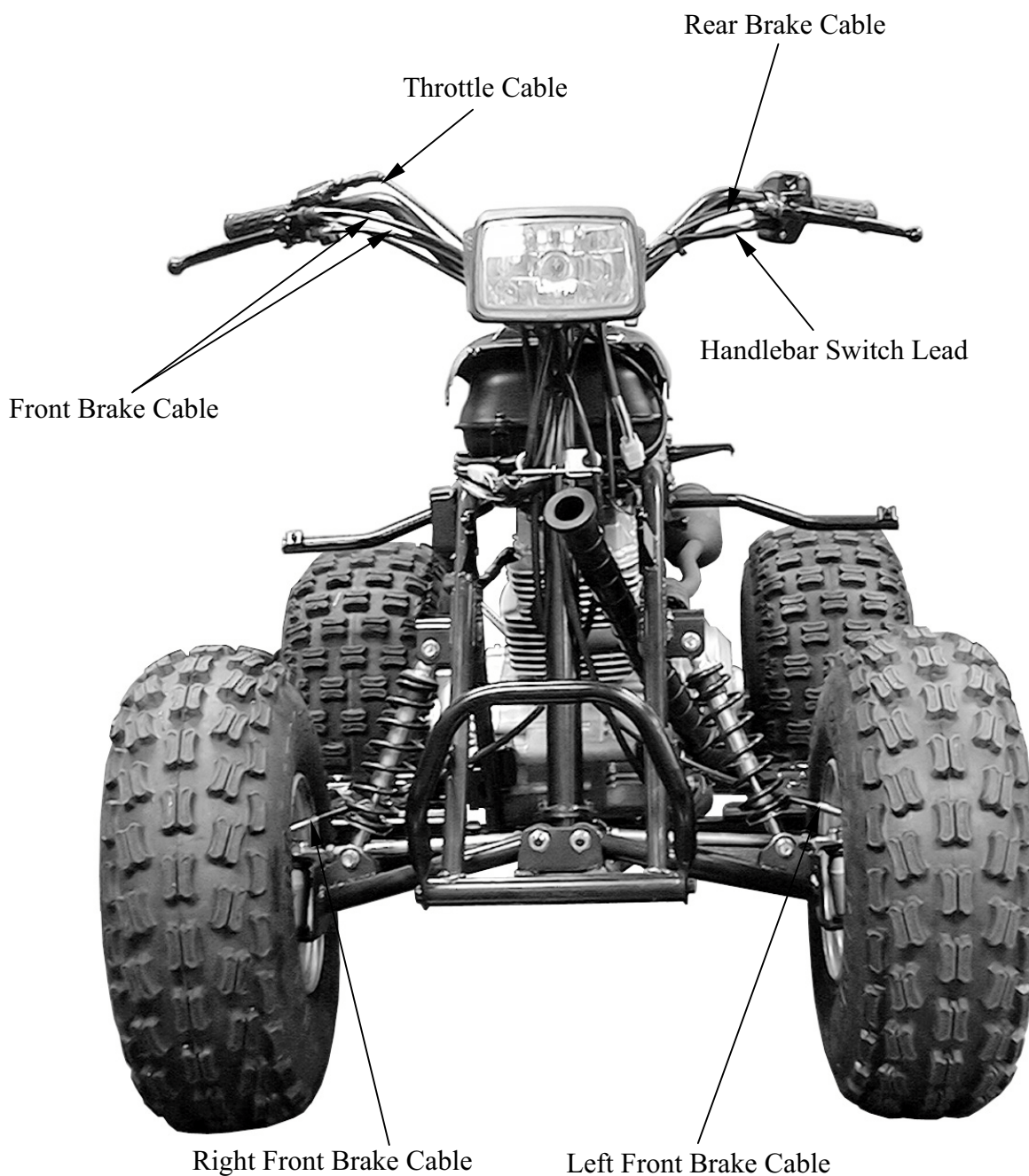


## 1. GENERAL INFORMATION



# 1. GENERAL INFORMATION

## CABLE & HARNESS ROUTING (MX'er 150/125)



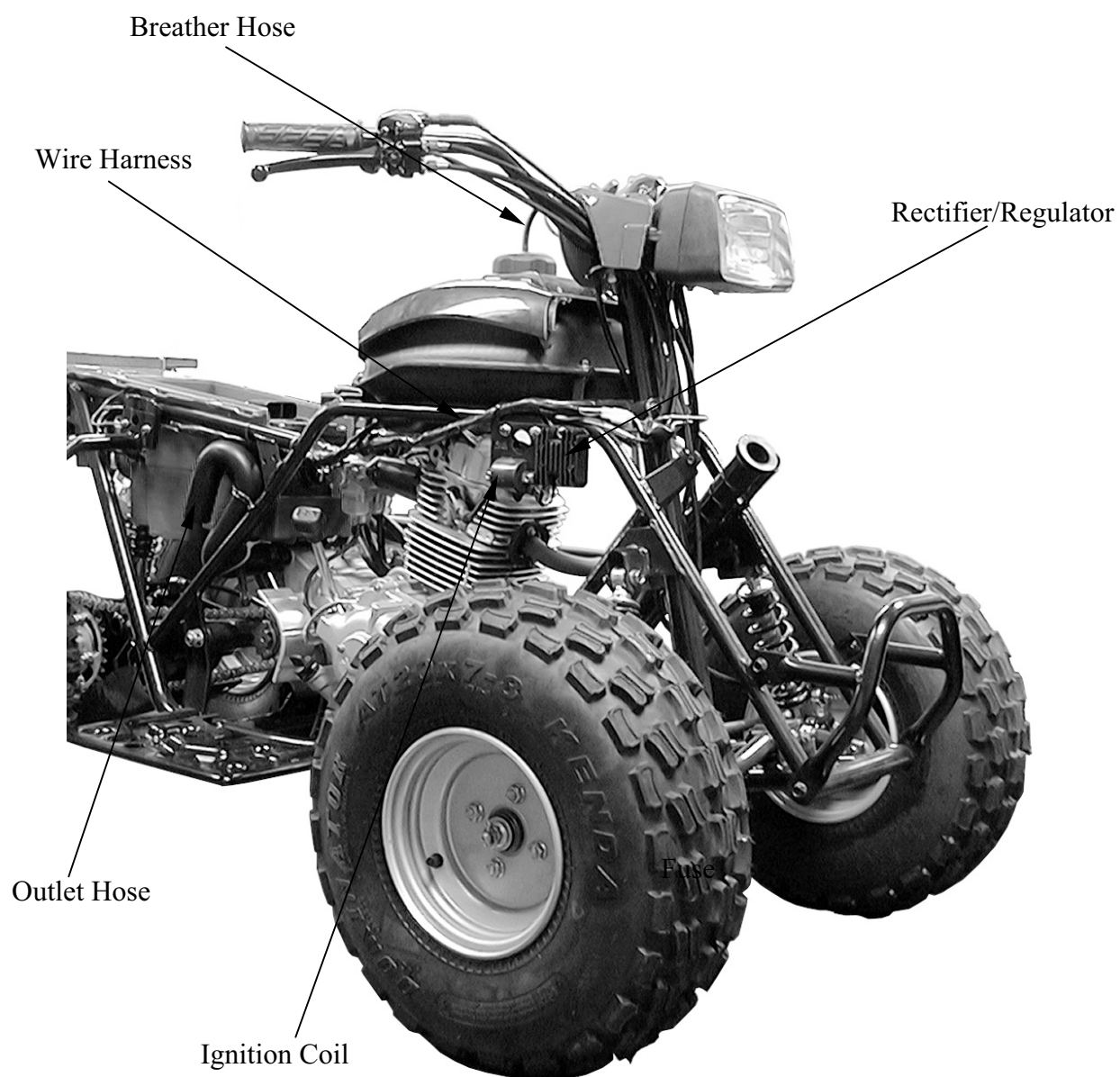
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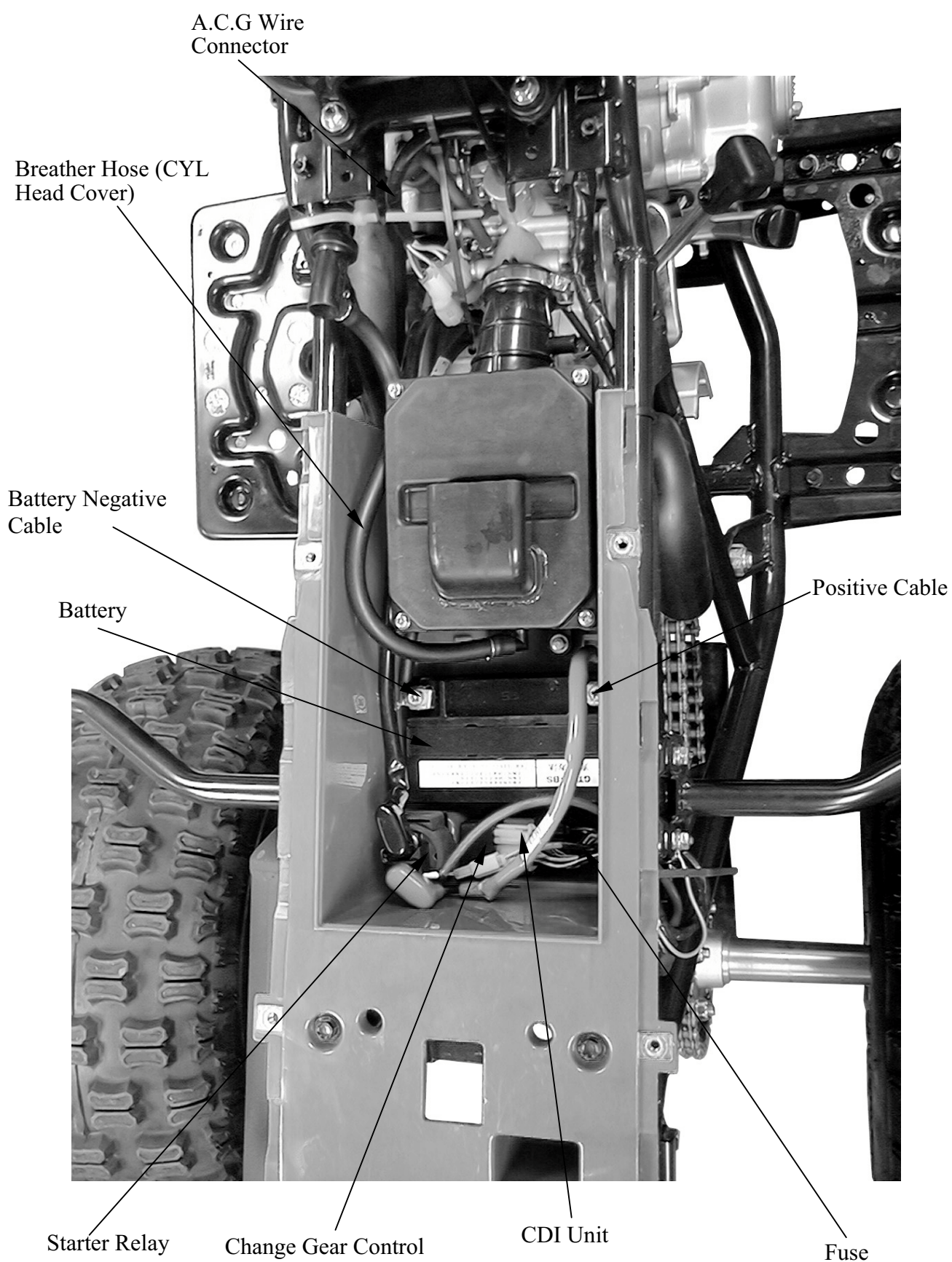


## 1. GENERAL INFORMATION

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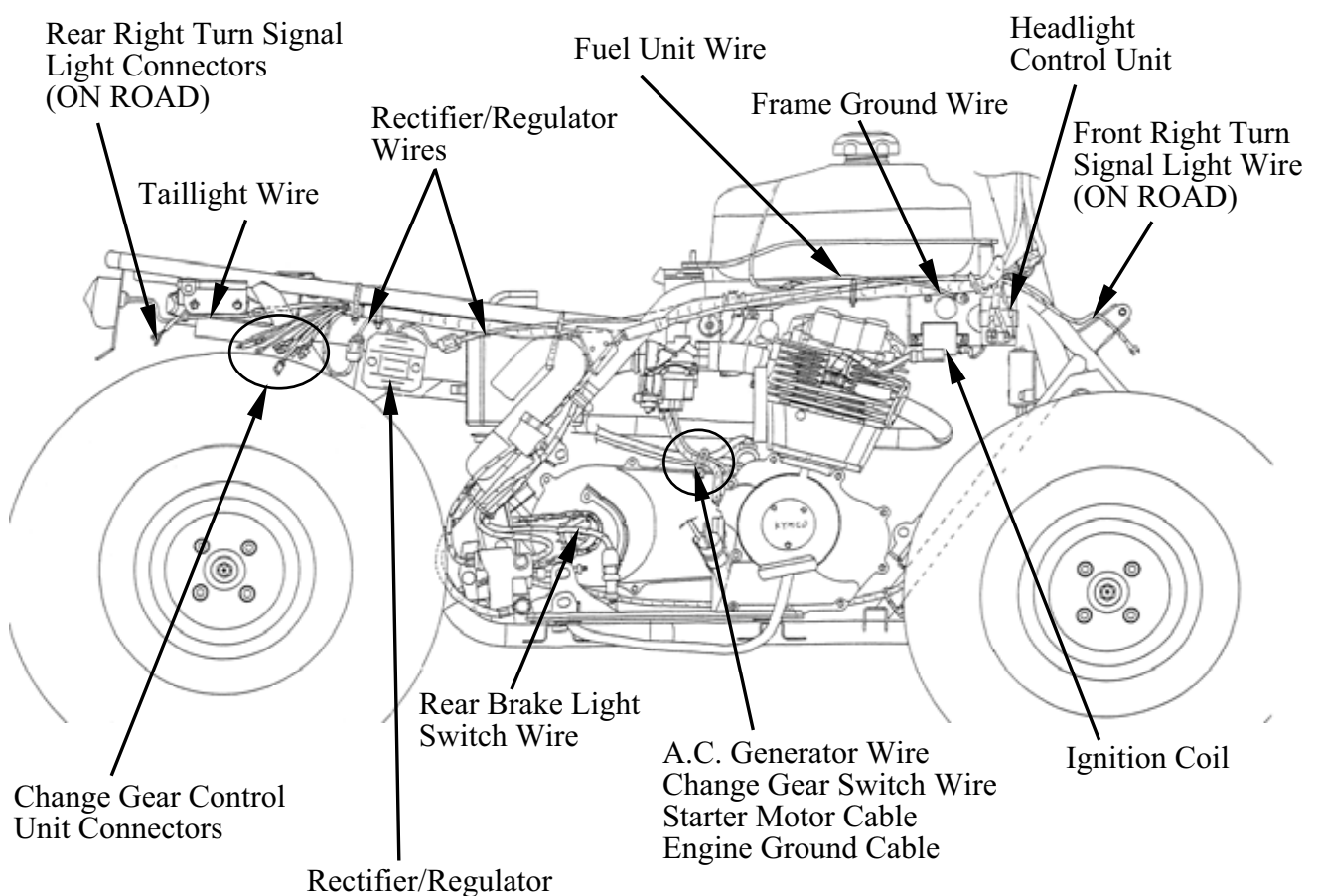
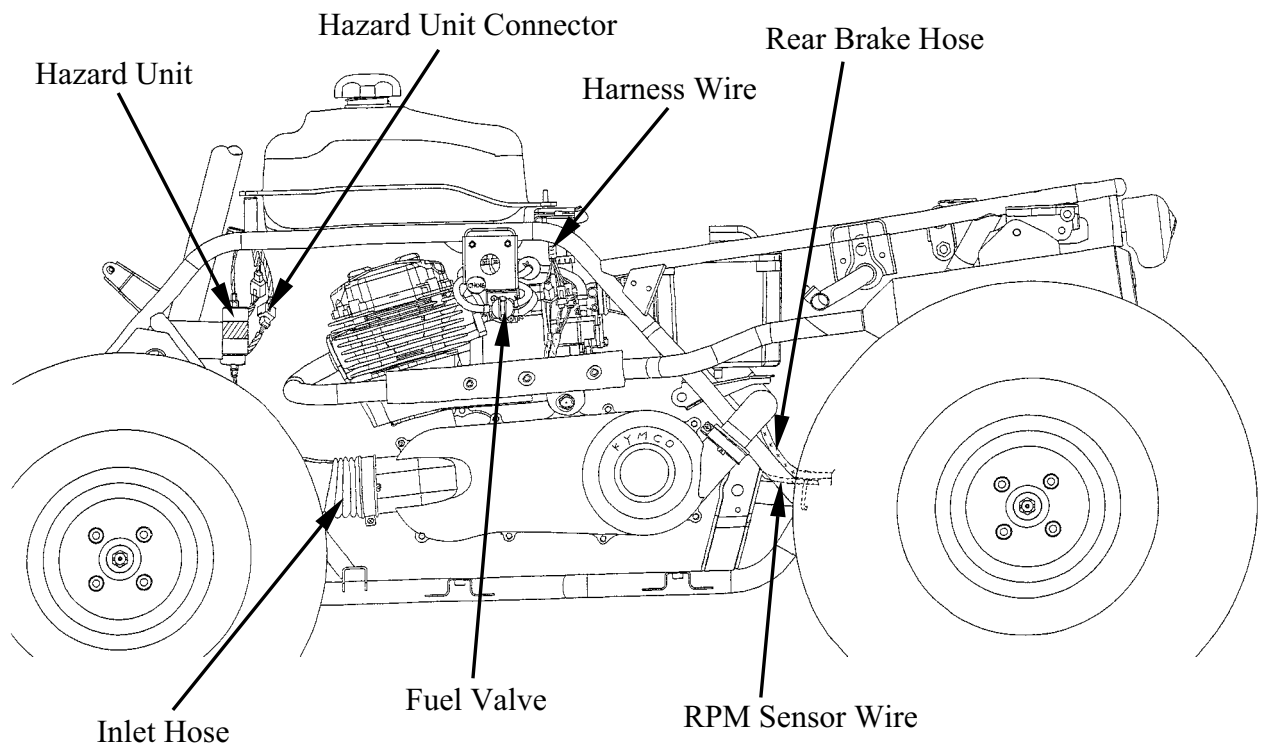


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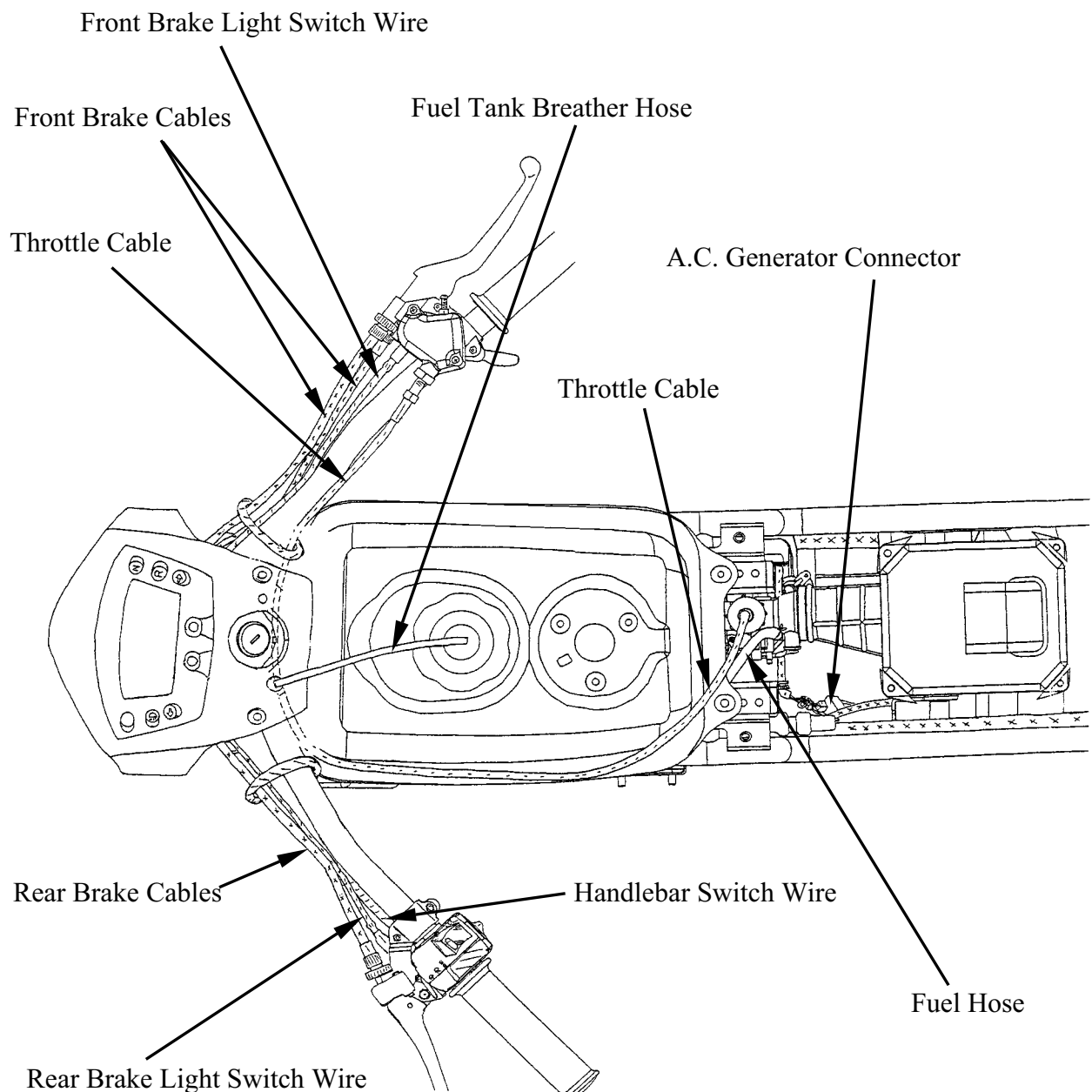


# 1. GENERAL INFORMATION

## CABLE & HARNESS ROUTING (MXU 150)

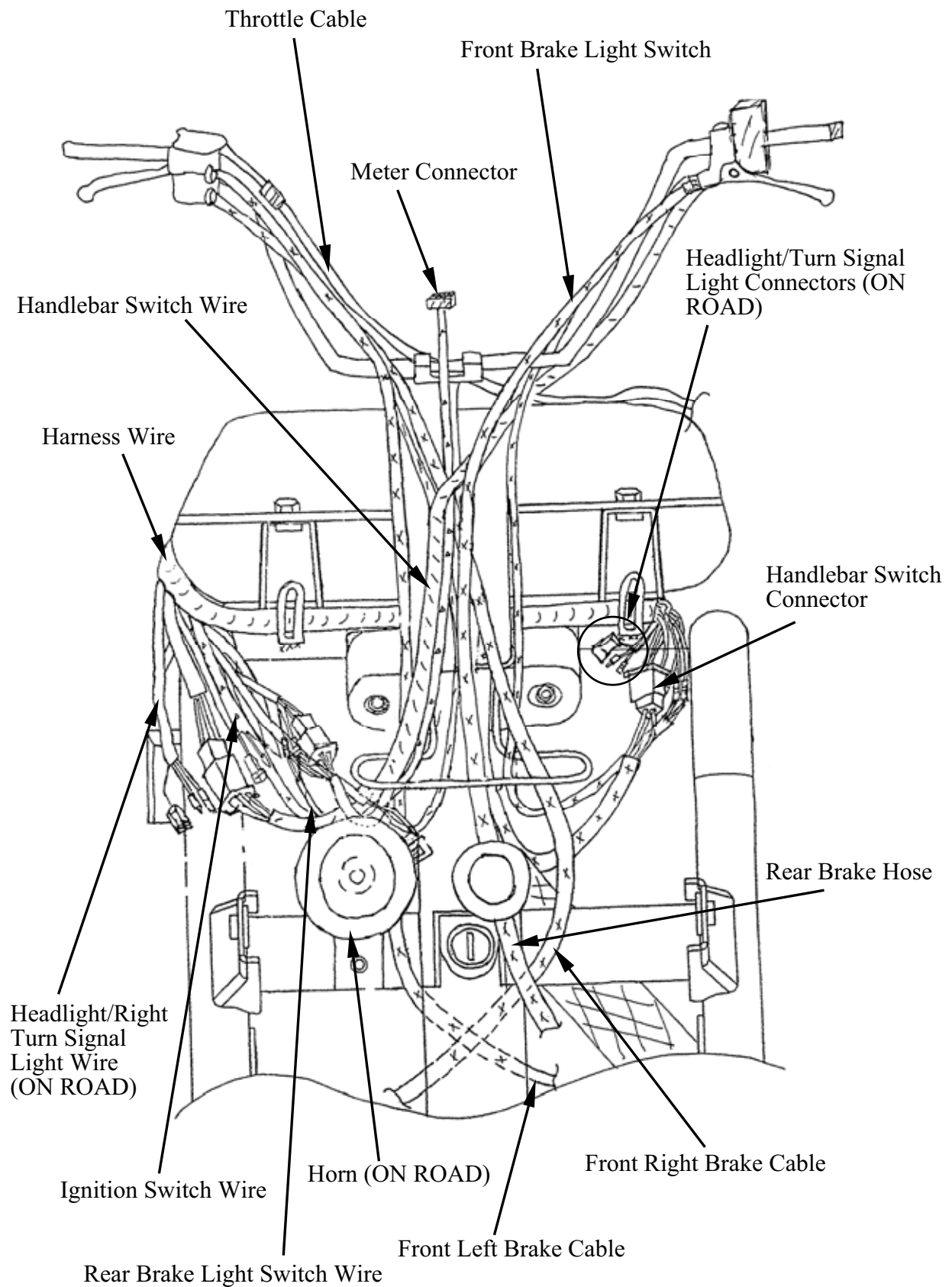


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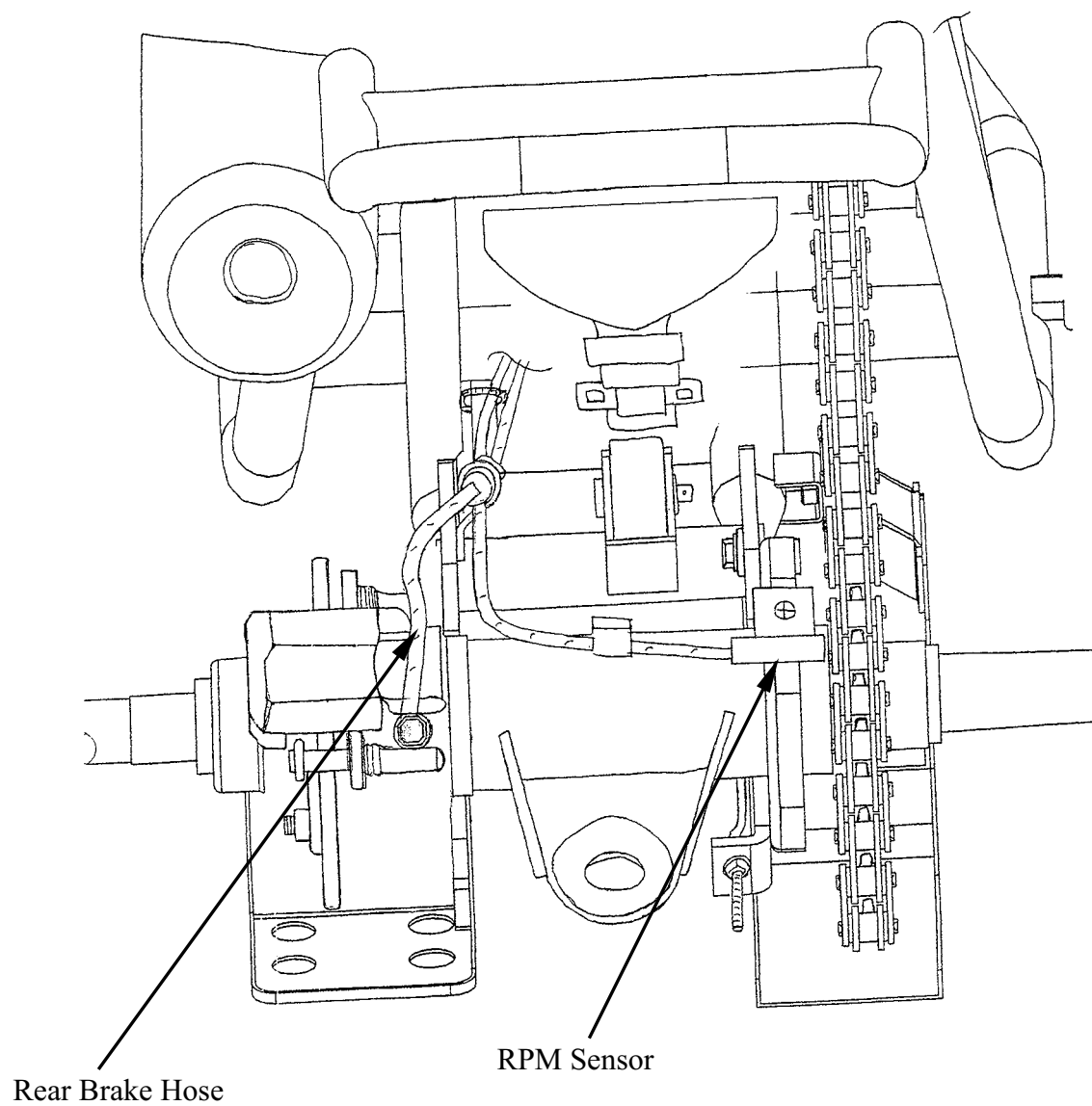




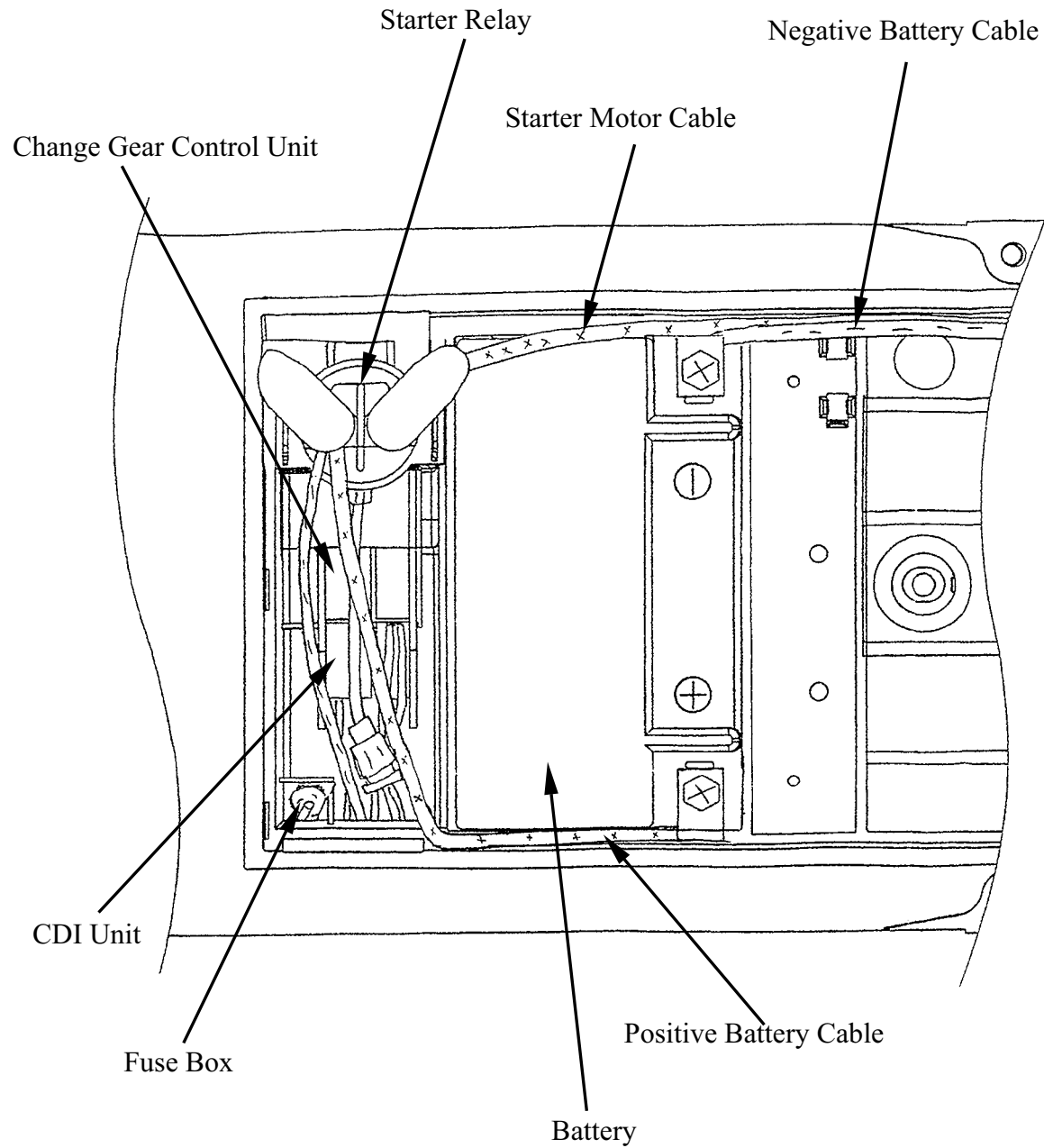
# 1. GENERAL INFORMATION



## 1. GENERAL INFORMATION

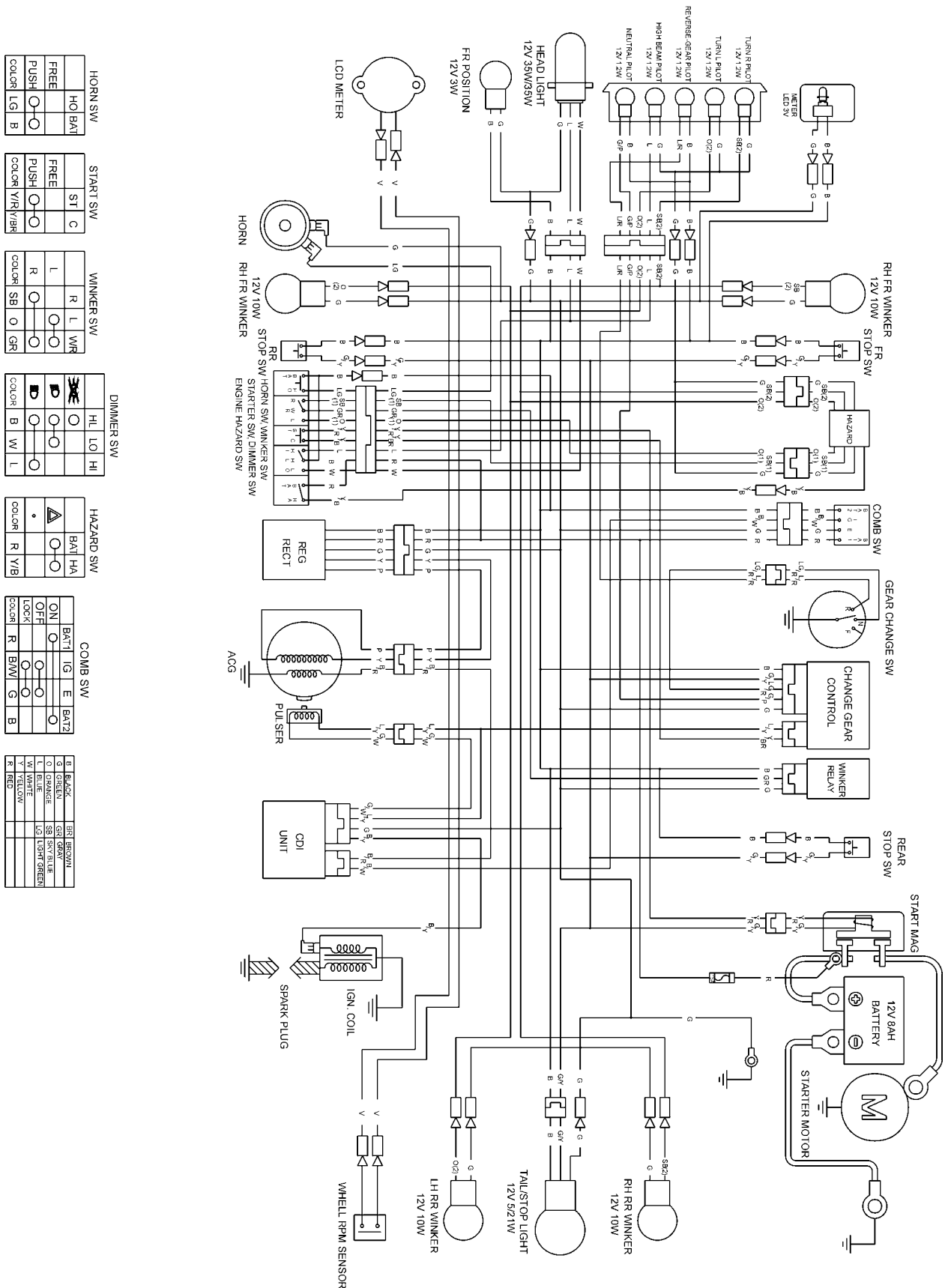


## 1. GENERAL INFORMATION



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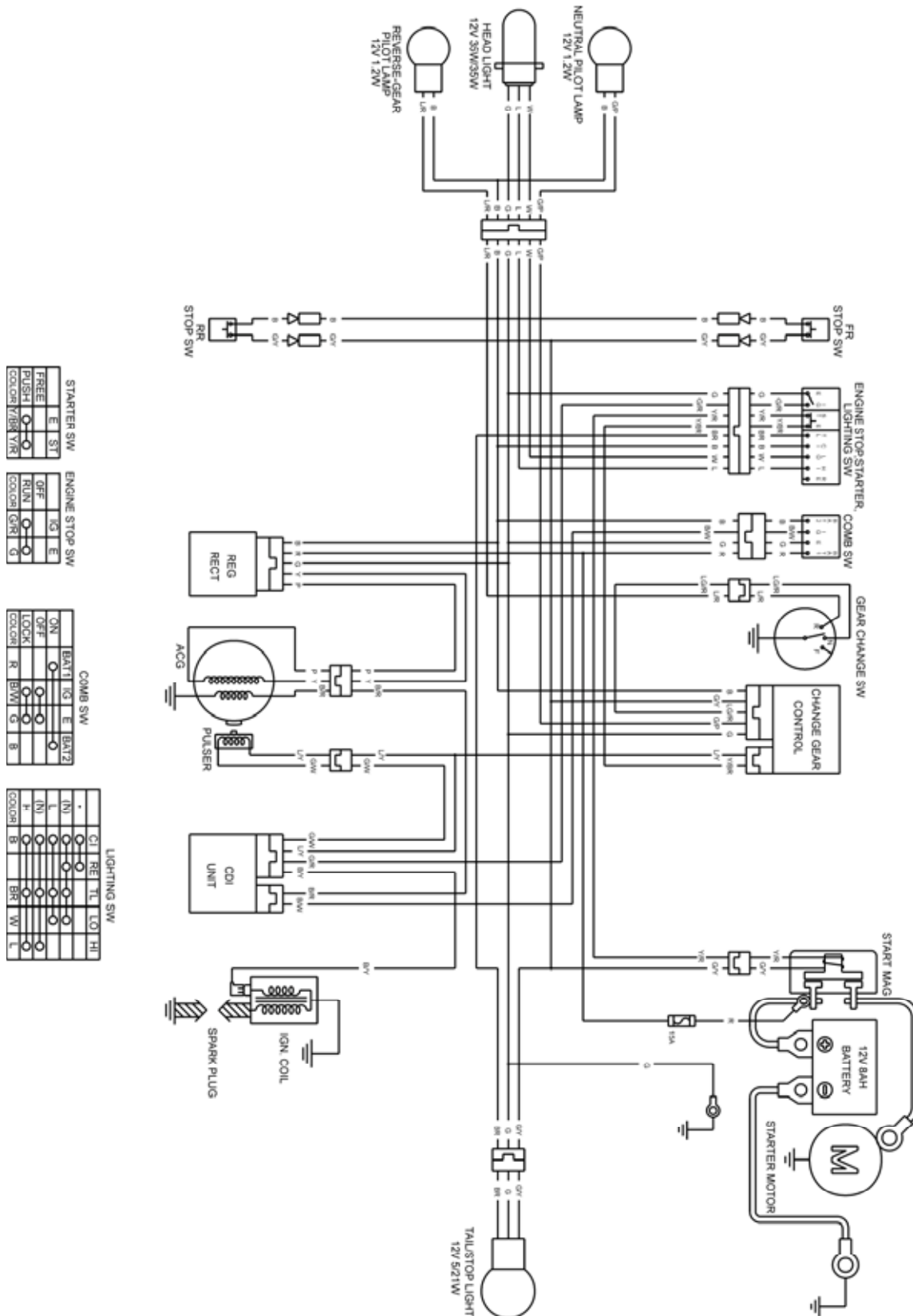
## WIRING DIAGRAM (MX'er 150/125 ON ROAD)





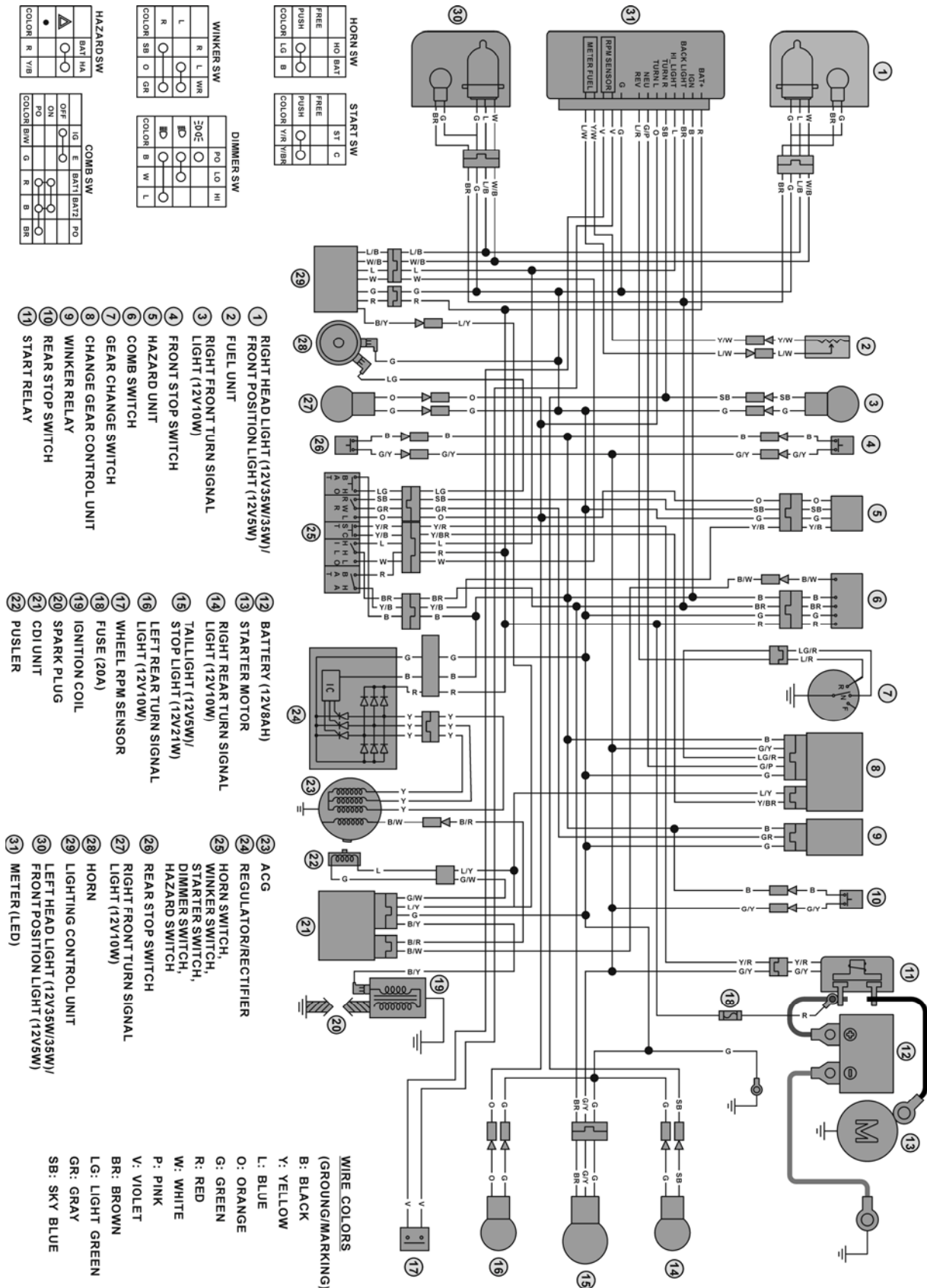
# 1. GENERAL INFORMATION

(MX'er 150/125 OFF ROAD)



## 1. GENERAL INFORMATION

**(MXU 150 ON ROAD)**

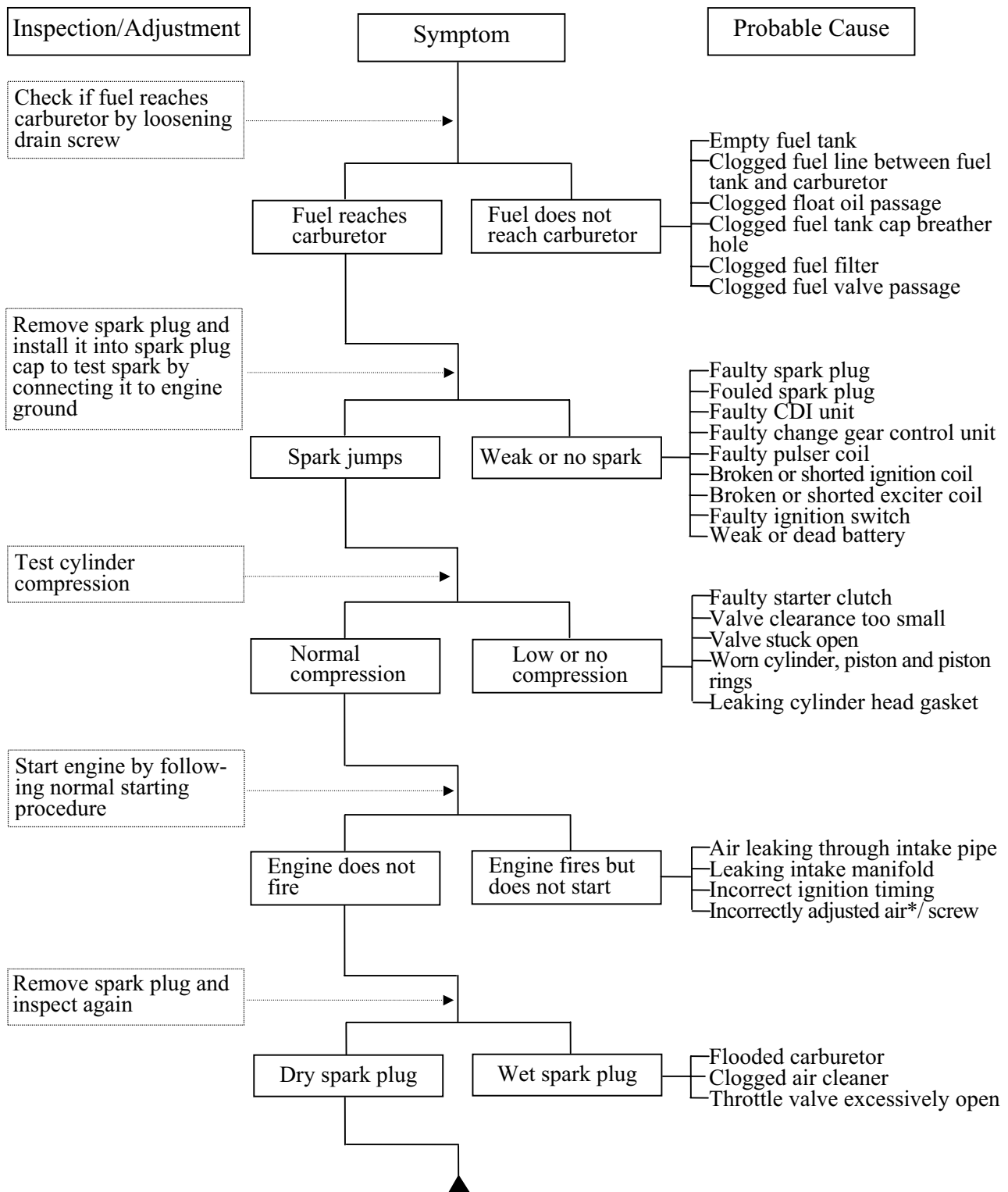




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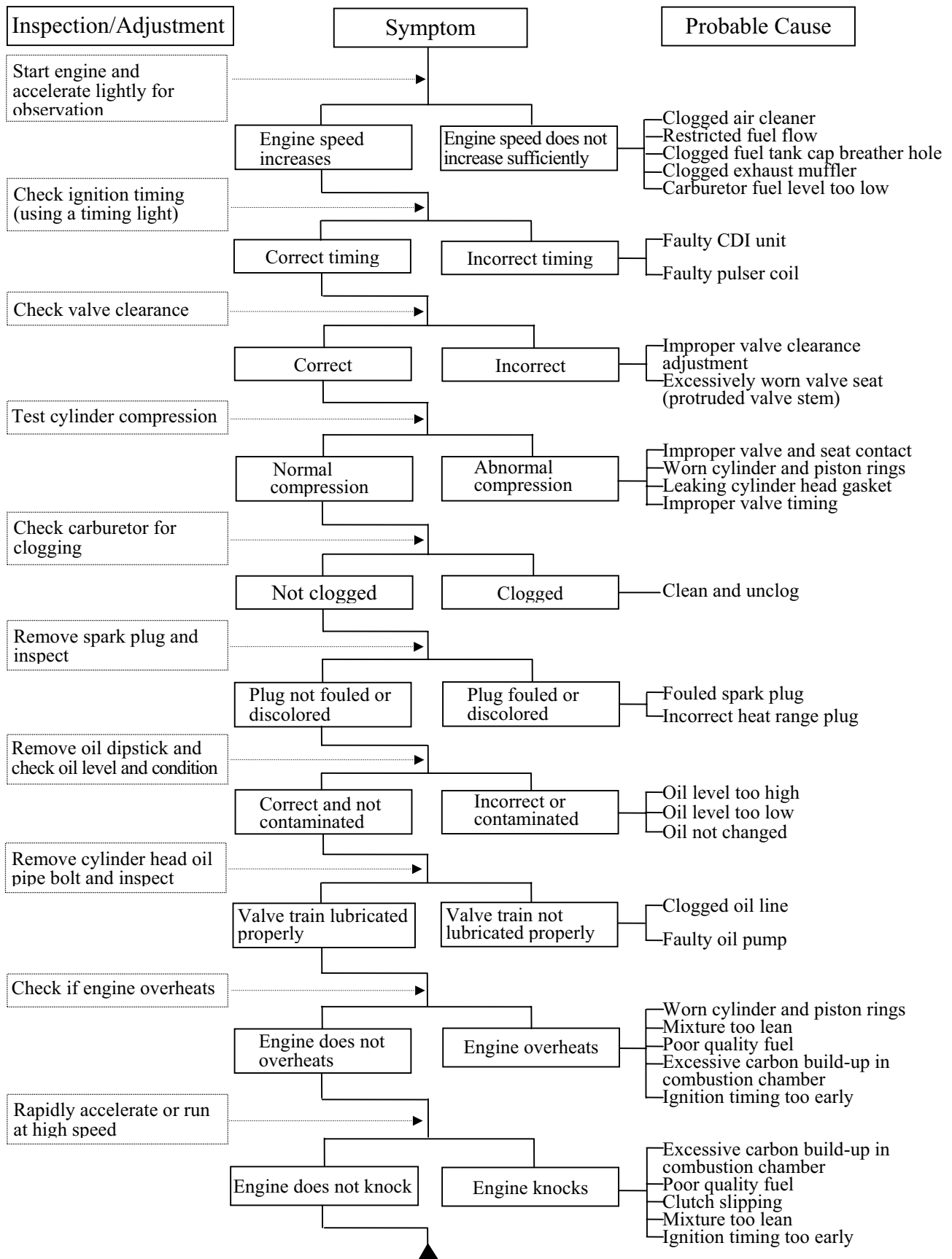
## TROUBLESHOOTING

### ENGINE WILL NOT START OR IS HARD TO START



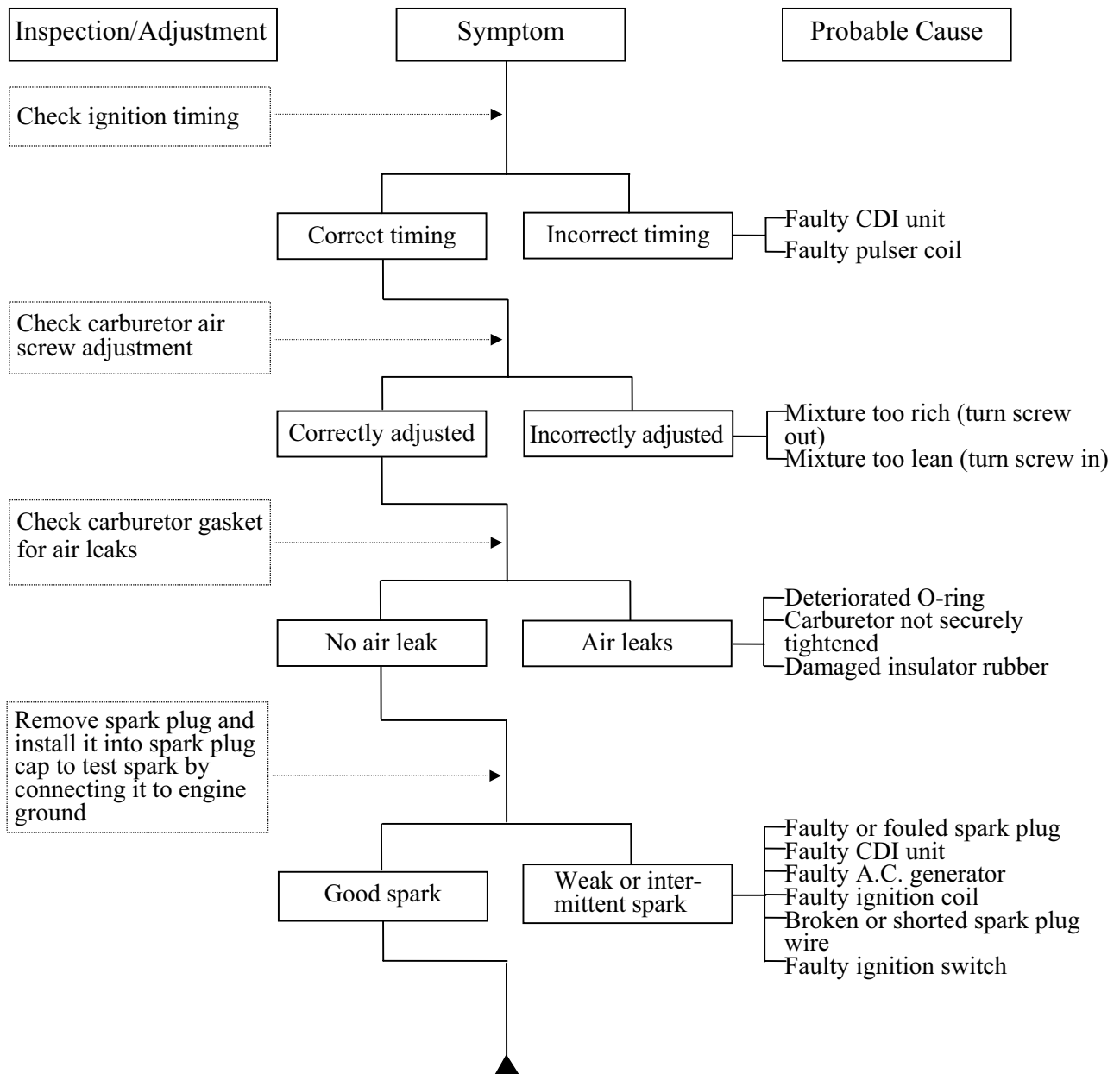
# 1. GENERAL INFORMATION

## ENGINE LACKS POWER



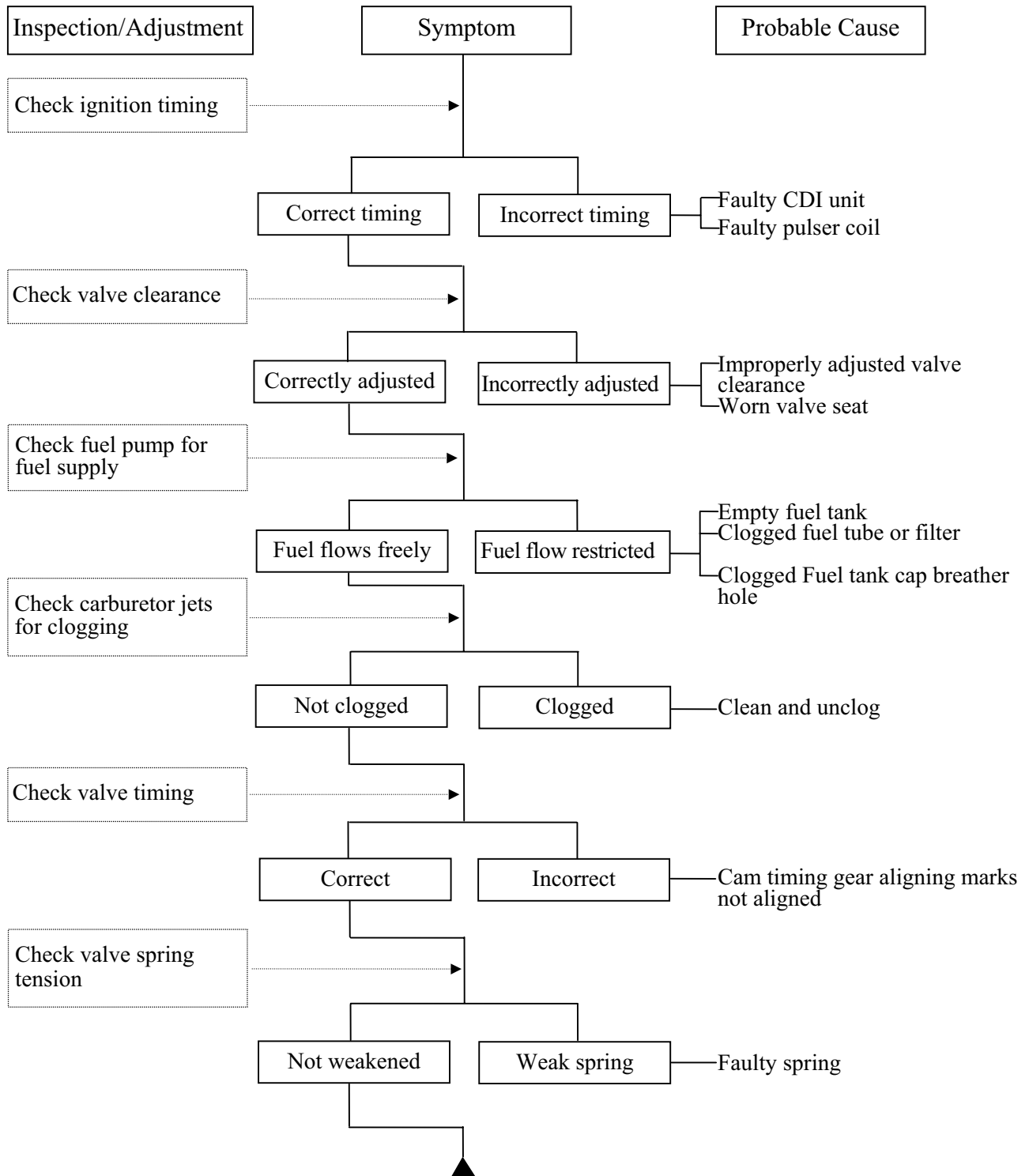
# 1. GENERAL INFORMATION

## POOR PERFORMANCE (ESPECIALLY AT IDLE AND LOW SPEEDS)



# 1. GENERAL INFORMATION

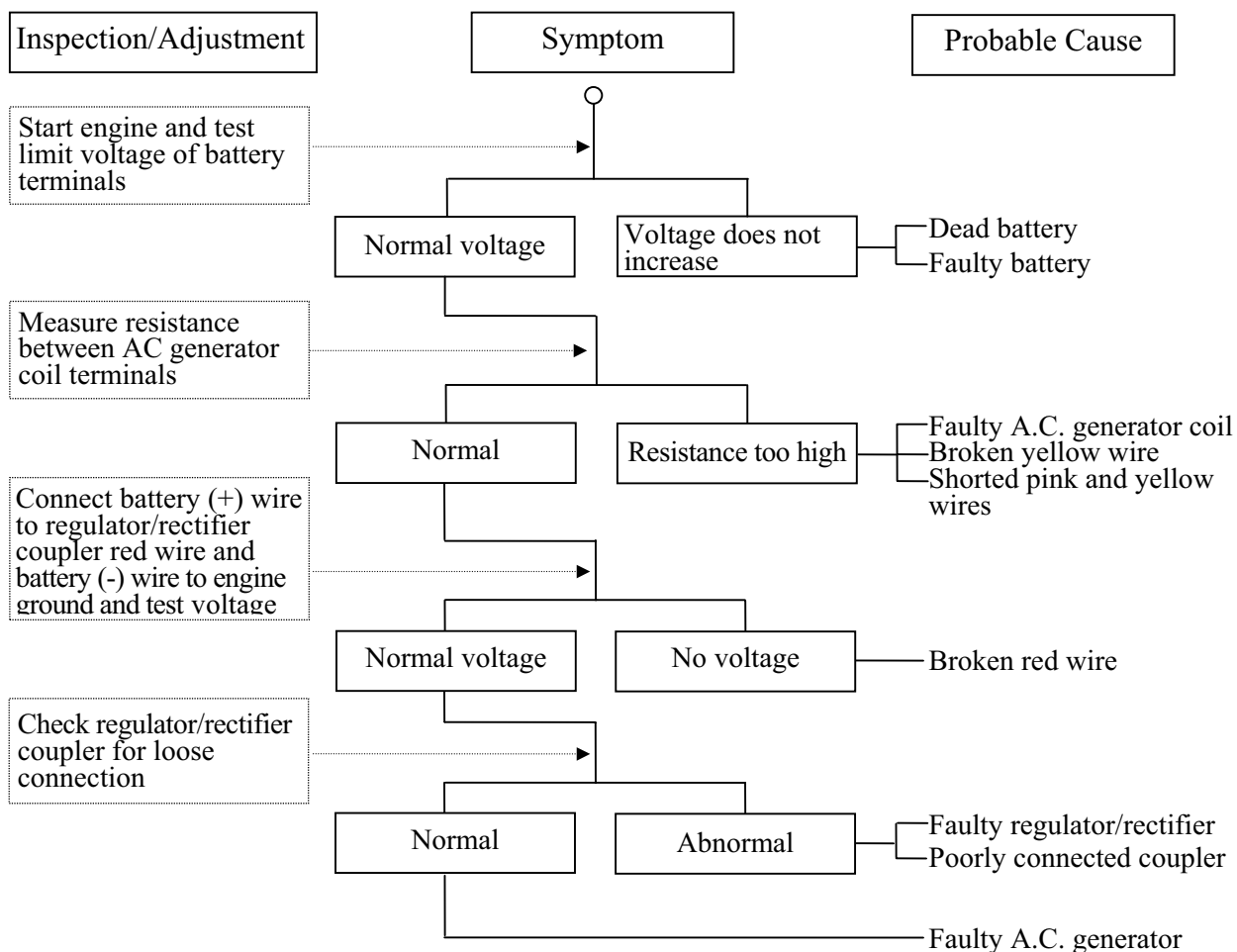
## POOR PERFORMANCE (AT HIGH SPEED)



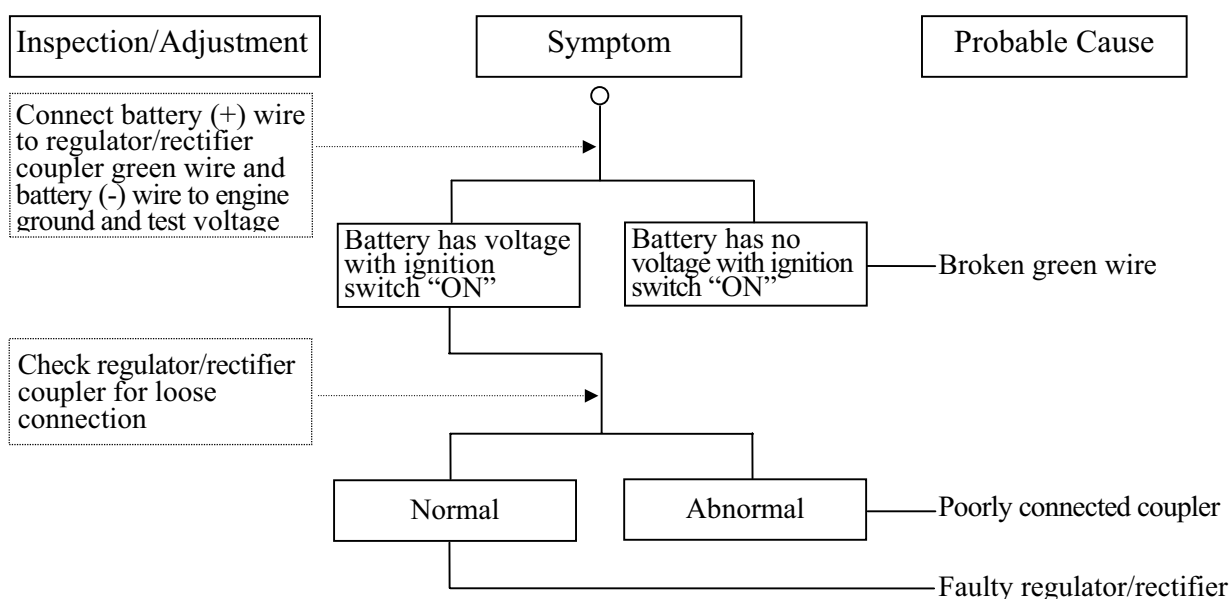
# 1. GENERAL INFORMATION

## POOR CHARGING (BATTERY OVER DISCHARGING OR OVERCHARGING)

### Undercharging



### Overcharging





# 1. GENERAL INFORMATION

## NO SPARK AT SPARK PLUG

