176 MAINTENANCE



(2)Both right or both left turn signals come on and stay on or flash too slowly:

•Check that battery voltage is not low.

•Check that all wiring connections are good.

 Check that the turn signal bulbs and indicator bulb are of the correct wattage.

olf all of the above check good, replace the relay.

(3) A single light on one side comes on and stays on:

 Either the light that does not come on is burned out or of the incorrect wattage, or the wiring is broken or improperly connected.

(4) Neither light on one side comes on:

 Unless both lights for that side are burned out, the trouble is with the turn signal switch.

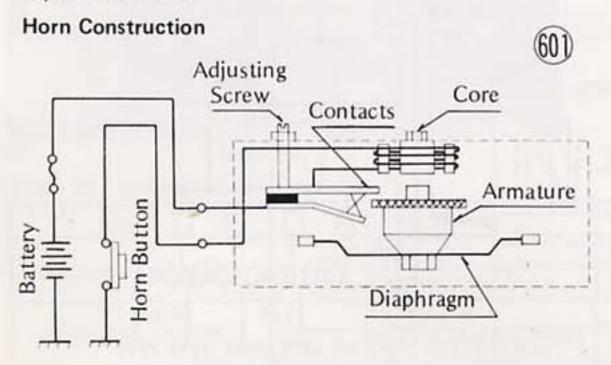
(5) Flashing rate is too fast:

•If this occurs on both the right and left sides, check that the battery is not being overcharged (indicating a defective regulator). If the dynamo and the battery voltage are normal, replace the turn signal relay.

•If this occurs on only one side, one or both of the turn signal bulbs are of too high a wattage.

HORN

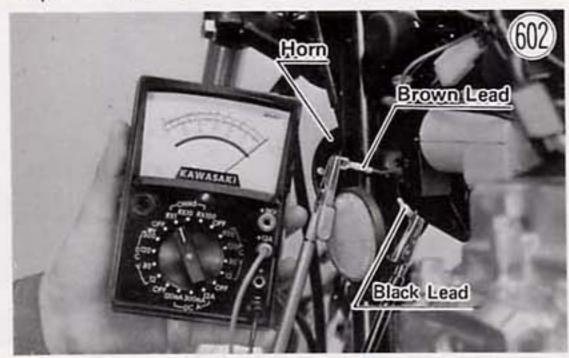
The horn circuit and construction are shown in Fig. 601. When the horn button is pressed with the ignition switch on, the horn is grounded to complete the horn circuit. Current then flows through the horn contacts and horn coil, magnetizing the iron core. The magnetized iron core pulls on the armature and diaphragm assembly, the movement of which pushes open the contacts, interrupting the current flow. Since the core now loses its magnetism, the armature and diaphragm assembly springs back to its original position, closing the contacts. This cycle repeats until the horn button is released. Since each cycle takes only a fraction of a second, the diaphragm moves fast enough to produce sound.



The contacts wear down after long use, requiring adjustment from time to time (Pg. 22). If the horn itself is determined to be at fault and adjustment fails to correct the trouble, the contacts or some other component in the horn is defective. The horn cannot be disassembled and must be replaced if defective. Horn trouble

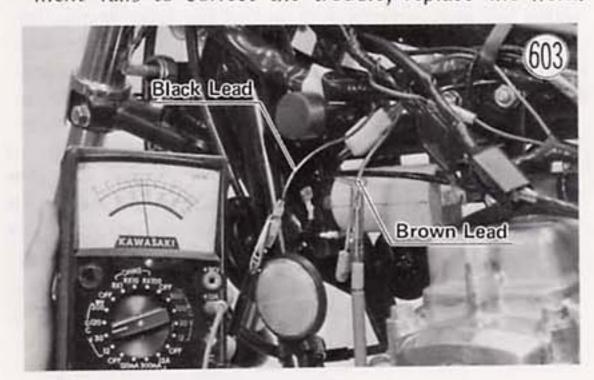
Check that battery voltage is normal.

•Disconnect the leads to the horn, and connect to the horn leads a multimeter set to the R x 1 range to check for continuity (close to zero ohms). If the reading is several ohms or if there is no reading at all, replace the horn.



•If the reading is very close to zero, set the multimeter to the 30 VDC range, and connect the meter to the leads that were disconnected from the horn. The + meter lead goes to the brown lead, and the — meter lead goes to the black lead. With the ignition switch on, press the horn button. The meter should register battery voltage. If it does not, the fuse, ignition switch, horn button, or the wiring is at fault.

•If the meter does show battery voltage, indicating that the horn trouble lies within the horn itself, and adjustment fails to correct the trouble, replace the horn.



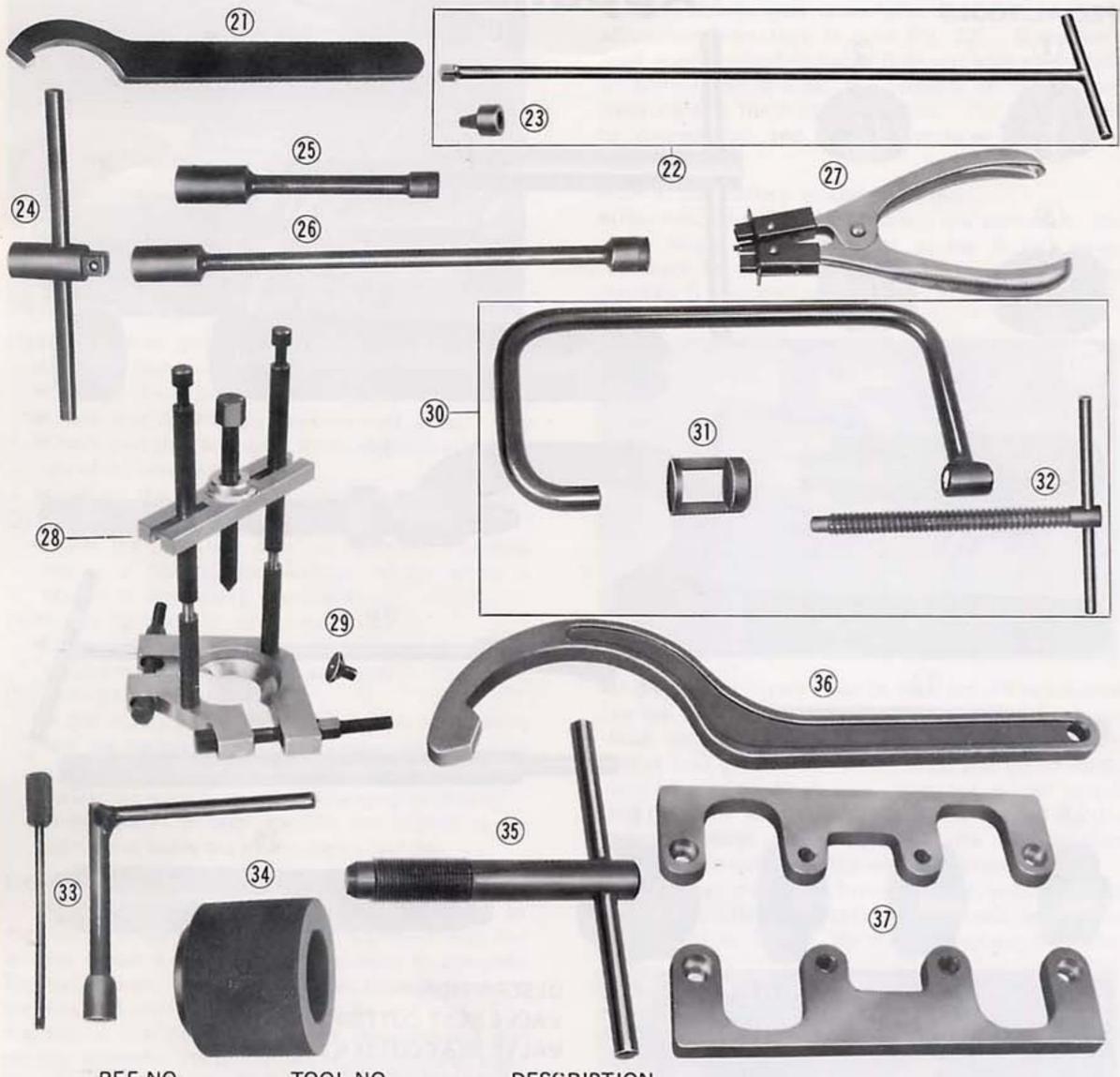
NOTE: Do not loosen the armature mounting since doing so would alter the armature position such that the horn would probably have to be replaced.

SPEEDOMETER, TACHOMETER

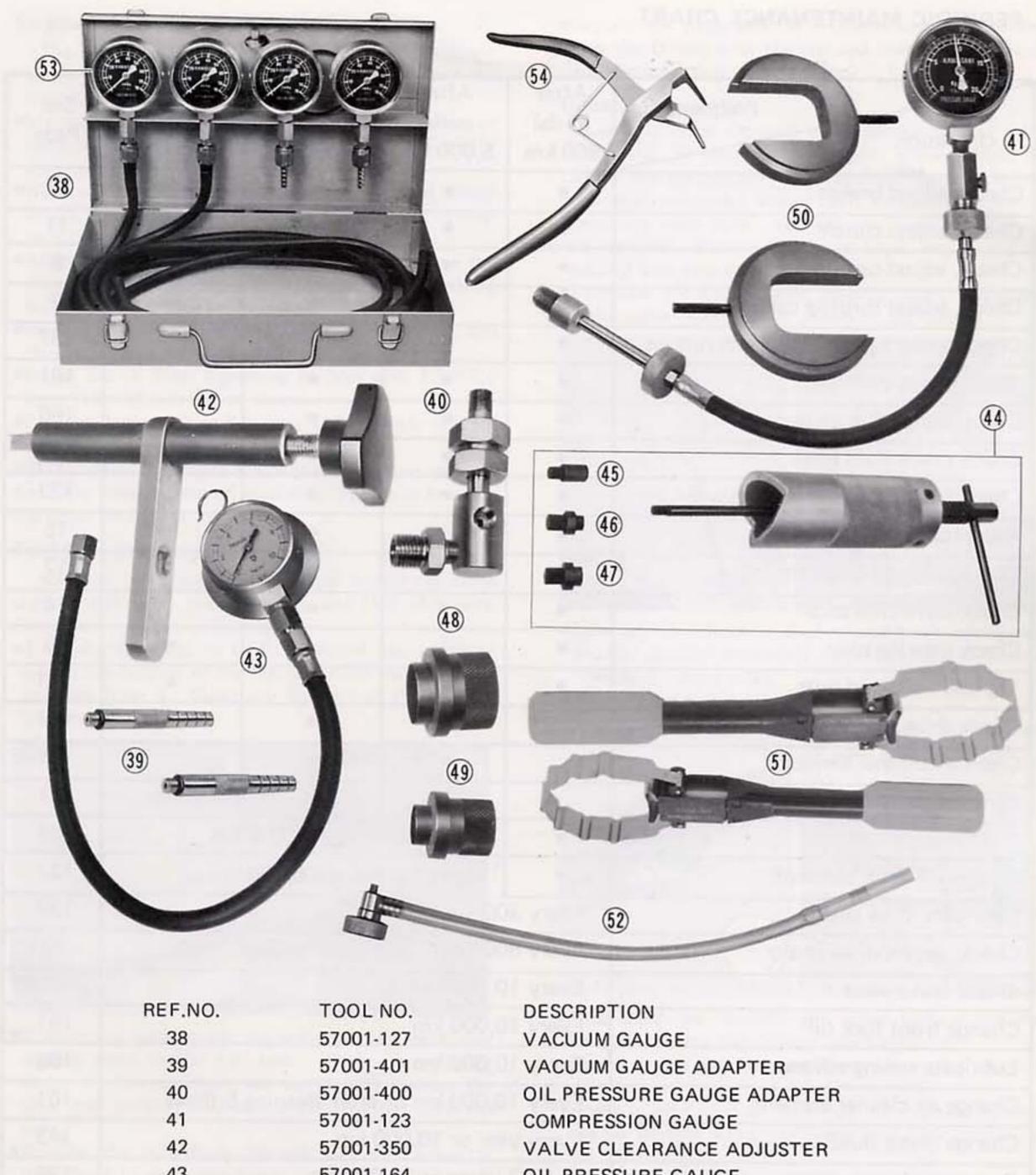
The speedometer and the tachometer are sealed units which cannot be disassembled. If either fails to work satisfactorily, it must be replaced as a complete unit.

The speedometer and tachometer illumination lights and the indicator lights are independent and can be removed for replacement if necessary.





REF.NO.	TOOL NO.	DESCRIPTION
21	57001-134	STEM NUT WRENCH
22	57001-179	FRONT FORK CYLINDER HOLDER ASSEMBLY
23	57001-181	FRONT FORK CYLINDER HOLDER ADAPTER
24	57001-370	CYLINDER HEAD BOLT WRENCH HANDLE
25	57001-371	CYLINDER HEAD BOLT WRENCH SOCKET 10 mm
26	57001-372	CYLINDER HEAD BOLT WRENCH SOCKET 13 mm
27	57001-115	PISTON RING PLIERS
28	57001-158	STEM BEARING PULLER
29	57001-166	STEM BEARING ADAPTER
30	57001-241	VALVE SPRING COMPRESSOR ASSEMBLY
31	57001-242	VALVE SPRING COMPRESSOR ADAPTER
32	57001-244	VALVE SPRING COMPRESSOR CENTER SHAFT
33	57001-167	BALANCE ADJUSTER
34	57001-191	FRONT FORK OIL SEAL DRIVER
35	57001-254	DYNAMO ROTOR PULLER
36	57001-255	DYNAMO ROTOR HOLDER
37	57001-165	CYLINDER HEAD HOLDING PLATE



REF.NO.	TOOL NO.	DESCRIPTION
38	57001-127	VACUUM GAUGE
39	57001-401	VACUUM GAUGE ADAPTER
40	57001-400	OIL PRESSURE GAUGE ADAPTER
41	57001-123	COMPRESSION GAUGE
42	57001-350	VALVE CLEARANCE ADJUSTER
43	57001-164	OIL PRESSURE GAUGE
44	57001-910	PISTON PIN PULLER ASSEMBLY
45	57001-912	ADAPTER "A" - Not used for KZ400
46	57001-913	ADAPTER "B"
47	57001-914	ADAPTER "C" - Not used for KZ400
48	57001-265	KICK SHAFT OIL SEAL GUIDE
49	57001-264	SHIFT SHAFT OIL SEAL GUIDE
50	57001-340	PISTON BASE
51	57001-921	PISTON RING COMPRESSOR ASSEMBLY
52	57001-208	FUEL LEVEL GAUGE
53	57001-226	VACUUM GAUGE
54	57001-154	RETAINING RING PLIERS

PERIODIC MAINTENANCE CHART

Operation	After initial 800 km	After initial 5,000 km	Every subsequent 5,000 km	Every subsequent 10,000 km	See Page
Check, adjust brakes	•	•	•		17
Check, adjust clutch	•	•	•		11
Check, adjust carburetors	•	•	•		9
Check, adjust throttle cables	•	•	•		9
Check spoke tightness and rim runout	•	•	•		137
Clean fuel system	•	•	•		181
Clean, set spark plug gaps	•	•	•		166
Check brake fluid level	•	•	•		143
Check tire pressure and tread wear	•	•	•		133
Adjust camshaft chain	1.		•		15
Check, adjust points, timing	•		•		12
Check valve clearance	•		•		14
Check steering play	•			•	16
Tighten bolts and nuts				•	183
Check drive chain wear		•	•		139
Clean air cleaner element			•		101
Perform general lubrication		•	•		181
Change engine oil	•	Every sub	y subsequent 3,000 km		181
Change oil filter element	•	Every subsequent 6,000 km		km	132
Lubricate drive chain	Every 3	300 km			139
Check, adjust drive chain	Every 800 km			20	
Check brake wear	Every 10,000 km			144,146	
Change front fork oil	Every 10,000 km		44	151	
Lubricate timing advancer	Every 1	10,000 km			166
Change air cleaner element	*Every 1	10,000 km or	after cleaning	5 times	101
Change brake fluid	*Every y	ear or 10,00	0 km		143
Regrease wheel bearings	*Every 2	2 years or 20	,000 km		138
Regrease speedometer gear housing	*Every 2 years or 20,000 km			138	
Regrease brake camshaft	*Every 2 years or 20,000 km		N. T.	147	
Lubricate steering stem bearings	*Every 2 years or 20,000 km		148		

^{*} Whichever occurs first

Engine Oil Change

The engine oil and oil filter are changed as follows:

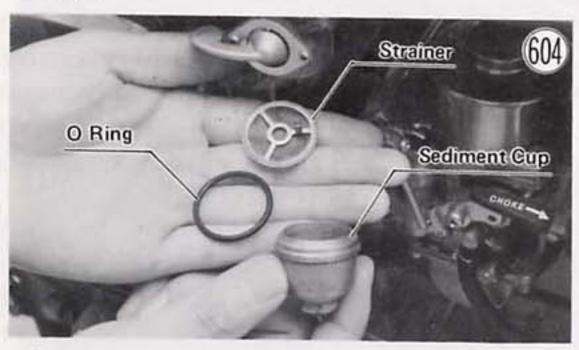
- •Warm up the engine thoroughly, and then stop the engine.
- Set the motorcycle up on its center stand, place an oil pan beneath the engine, and remove the engine drain plug and oil filter.
- Wipe off the drain plug removing any steel filings which may be clinging to it (the drain plug is magnetic).
- After the oil has completely drained out, screw the drain plug back in. Proper torque for the drain plug is 2.7~3.3 kg-m (19.5~24 ft-lbs).
- •Replace the oil filter with a new one if necessary, and check that it is properly assembled (Pg. 27).
- •Install the oil filter tightening its bolt with $1.5 \sim 2.0$ kg-m (11 \sim 14.5 ft-lbs) of torque.
- Pour in 3 l of SE or SD class SAE 10W40, 10W50, or 20W50 motor oil.

NOTE: After the engine has been run and then stopped for a few minutes, the oil level should come to between the upper and lower marks.

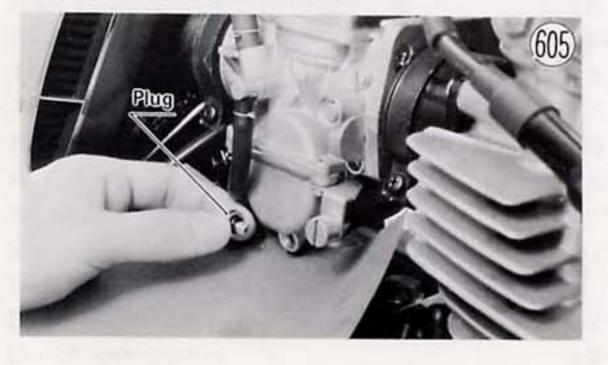
Fuel Line Cleaning

Water or dirt anywhere in the fuel system can cause starting difficulty, poor running, and lack of power. Clean out the lines as follows:

 Turn the fuel tap to OFF. Unscrew the sediment cup at the bottom of the tap, and clean out the water and dirt from it. Clean any dirt out of the fuel tap strainer.



- •If there was water inside the sediment cup, there may also be some in the fuel tank. Holding a container under the fuel tap, turn the tap to RES to drain the tank until gasoline only comes out, and then close the tap.
- •Remove the plug from the side of each carburetor float bowl to drain the bowls.



 Replace the plugs and the sediment cup. Make sure that the O ring is in the tap and that the strainer is not damaged during installation.

General Lubrication

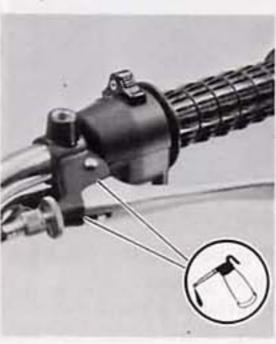
Lubrication of exposed parts subject to rust with either SAE 30 motor oil or regular grease should be carried out periodically and whenever the vehicle has been operated under wet or rainy conditions. Before lubricating each part, clean off any rusty spots with rust remover. Badly rusted nuts, bolts, etc. should be replaced with new ones.

 Lubricate the clutch cable, throttle cables, and front brake cable (KZ400S) as shown in the figure.





- Lubricate the clutch lever pivot and brake lever pivot, and the exposed portion of the clutch inner cable and front brake inner cable.
- •Wipe off excess lubricant.





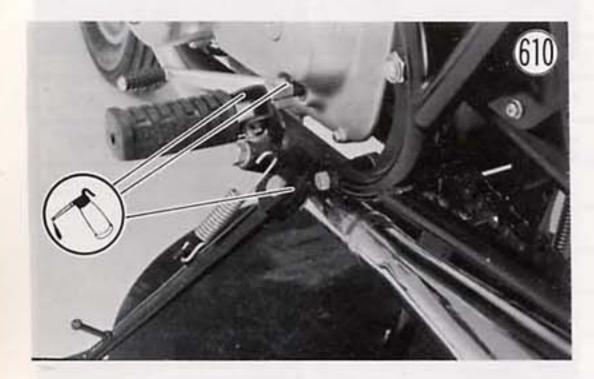
- •Wipe clean the throttle grip inner surface and the handlebar where the throttle grip fits.
- Apply grease to the handlebar where the throttle grip turns.
- Apply a light coat of grease to the exposed portion of the throttle grip inner cables and their catches in the throttle grip.
- •Fit the throttle cables into the throttle grip.



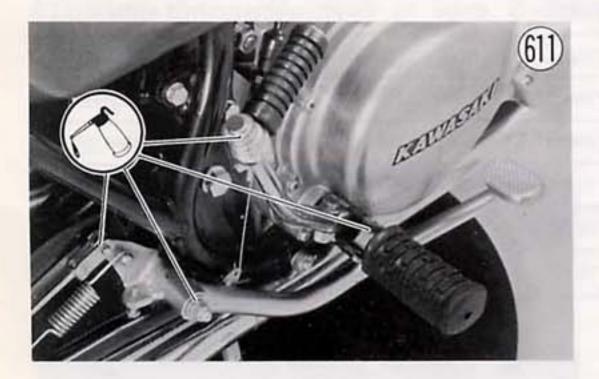
•Force grease into the fitting until it comes out at both sides of the swing arm, and wipe off any excess.



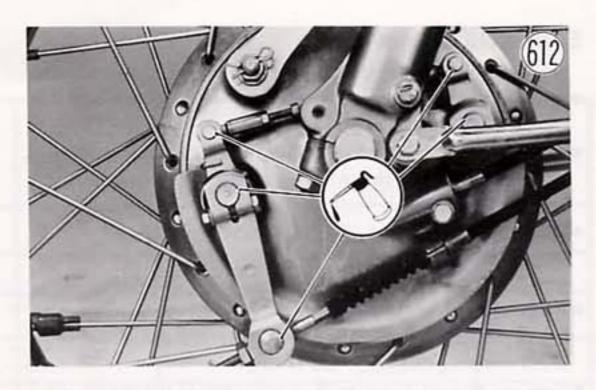
- Wipe off any dirt or grime from around the left foot peg, shift pedal, and side stand.
- Lubricate the exposed metal surfaces around the shift pedal serration and the bolts and nuts for the left foot peg and side stand.
- •Wipe off excess lubricant.



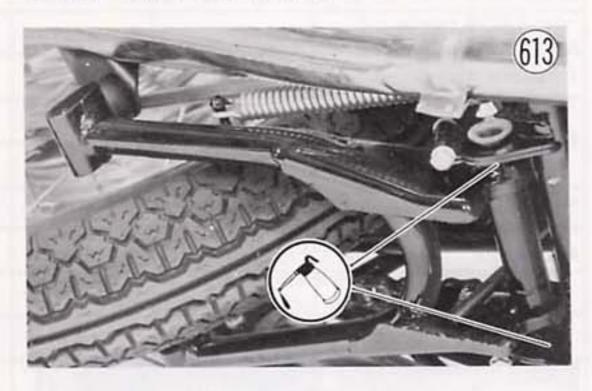
- Wipe off any dirt or grime from around the right foot peg, brake pedal, and kickstarter pedal.
- Lubricate the exposed metal surfaces around the bolts and nuts for the right foot peg, brake pedal, and kick starter pedal.
- •Wipe off excess lubricant.



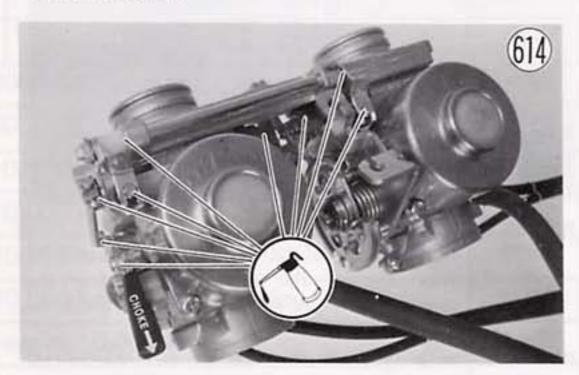
 Oil lightly around the camshaft serrations and where the cam lever connects to the brake cable and the connecting rod (KZ400S).

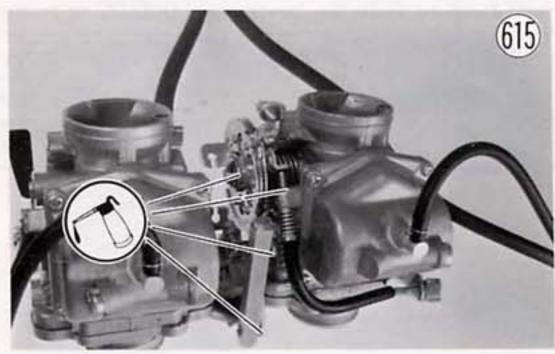


- Oil lightly the end of each drive chain adjuster, the camshaft serration, and the end of the brake rod.
- •Wipe off excess oil.
- •Lubricate the center stand pivot.



 Oil lightly the carburetor link mechanism and the choke link mechanism.





TORQUE TABLE

Tighten all bolts and nuts to the proper torque using an accurate torque wrench. A bolt or nut if insufficiently tightened may become damaged or fall out, possibly resulting in damage to the motorcycle and injury to the rider. A bolt or nut which is over-tightened may become damaged, strip an internal screw, or break and then fall out.

The following table lists the tightening torque for the major bolts and nuts:

	Metric	English	See Pg.
Engine drain plug	2.7~3.3 kg-m	19.5 ~ 24 ft-lbs	27,51,181
Oil filter bolt	1.5~ 2.0 kg-m	11~14.5 ft-lbs	27,51,181
Engine mounting bolts (3)	3.4~4.6 kg-m	25~33 ft-lbs	25
Engine mounting bracket bolts, front (3)	2.0~2.8 kg-m	14.5~ 20 ft-lbs	25
Engine mounting bracket bolts, rear (2)	1.6~2.2 kg-m	11.5~ 16 ft-lbs	_
Breather cover bolts 8 ^{\phi} (4)	1.8~2.0 kg-m	13~14.5 ft-lbs	26,32,35,38
Cylinder head cover nuts 8 ^{\phi} (8)	2.5~3.0 kg-m	18~22 ft-lbs	32,35,38,70
Cylinder head bolts 8^{ϕ} (2)	2.5~3.0 kg-m	18~22 ft-lbs	38,70
Cylinder head bolts 6^{ϕ} (2)	1.1~1.3 kg-m	95~113 in-lbs	38,70
Camshaft sprocket bolts 6^{ϕ} (2)	1.4~ 1.6 kg-m	10~11.5 ft-lbs	34,37,70
Rocker shaft nuts (4)	2.4~2.6 kg-m	18~22 ft-lbs	15
Dynamo rotor bolt 10 ^{\phi}	6.5~7.0 kg-m	47~51 ft-lbs	45,60
Starter clutch Allen bolts 8 ^{\phi} (3)	3.3~3.7 kg-m	24~27 ft-lbs	46
Dynamo field coil Allen bolts 6 ^{\phi} (3)	0.7~0.8 kg-m	61~69 in-lbs	43
Dynamo armature Allen bolts 6^{ϕ} (3)	0.7~0.8 kg-m	61~69 in-lbs	43,44
Engine sprocket nut	12~15 kg-m	87~108 ft-lbs	53,63
Crankcase bolts 8 ^{\phi} (4)	2.5~3.0 kg-m	18~22 ft-lbs	59
Crankcase bolts 6 ^{\phi} (16)	0.8~1.0 kg-m	69~87 in-lbs	59
Balancer holder bolts 6 ^{\phi} (8)	2.3~2.7 kg-m	16.5~ 19.5 ft-lbs	66
Balancer weight bolts 6 ^{\phi} (2)	1.1~1.3 kg-m	95~113 in-lbs	66
Crankshaft bushing cap bolts 8 ^{\phi} (4)	2.5~3.0 kg-m	18~22 ft-lbs	66
Connecting rod nuts 8^{ϕ} (4)	3.5~3.8 kg-m	25~27 ft-lbs	71
Timing advancer bolt	2.3~2.7 kg-m	16.5~ 19.5 ft-lbs	49,51,60
Neutral indicator switch	1.5~2.0 kg-m	11~14.5 ft-lbs	54
Oil pressure indicator switch	1.4~1.6 kg-m	10.0~11.5 ft-lbs	130
Front axle clamp nuts (2)	1.6~2.2 kg-m	11.5~ 16 ft-lbs	72,75
Front axle nut	7~9 kg-m	51~65 ft-lbs	72,75
Front fork top bolts (2)	2.5~3.0 kg-m	18~22 ft-lbs	93,95
Shock absorber upper clamp bolts (2)	1.6~2.2 kg-m	11.5~16 ft-lbs	93,95,96
Shock absorber lower clamp bolts (2)	2.0~3.0 kg-m	14.5~22 ft-lbs	16,93,95,97
Stem head clamp bolt	1.6~2.2 kg-m	11.5~ 16 ft-lbs	16,97
Stem head bolt	5.5 kg-m	40 ft-lbs	16
Handlebar clamp bolts (4)	1.6~2.2 kg-m	11.5~ 16 ft-lbs	88
Rear axle nut	10~ 14 kg-m	72~101 ft-lbs	21,78,87
Torque link nuts (4) (2 on KZ400D)	2.6~3.5 kg-m	19~25 ft-lbs	21,75,77,87,99
Rear sprocket nuts (4)	3.5~4.3 kg-m	25~31 ft-lbs	87
Rear shock absorber bolts (2)	2.6~3.5 kg-m	19~25 ft-lbs	99,100
Rear shock absorber cap nuts (2)	2.6~3.5 kg-m	19~25 ft-lbs	100
Swing arm pivot shaft nut	6~10 kg-m	43~72 ft-lbs	99
Steering stem lock nut	2.7~3.3 kg-m	19.5~24 ft-lbs	96
Disc brake parts	-	-	81
Spoke	0.2~0.4 kg-m	17~35 in-lbs	81,137
Clutch spring bolts	0.9~1.1 kg-m	78~113 in-lbs	51,60

The table below, relating tightening torque to thread diameter and pitch, lists the basic torque for the bolts and nuts used on Kawasaki Motorcycles. However, the actual torque that is necessary may vary among bolts and nuts with the same thread diameter and pitch. The bolts and nuts listed on Pg. 183 vary to a greater or lesser extent from what is given in this table. Refer to this table for only the bolts and nuts not included in the table on Pg. 183. All of these values are for use with dry solvent cleaned threads.

Coarse threads

dia	(mm)	pitch (mm)	kg-m	ft-lbs
5		0.80	0.35~0.50	2.5~3.5
6		1.00	0.6 ~ 0.9	4.5~6.5
8		1.25	1.6 ~ 2.2	11.5 ~ 16.0
10		1.50	3.1 ~ 4.2	22 ~ 30
12		1.75	5.4 ~ 7.5	39 ~ 54
14		2.00	8.3 ~ 11.5	60~83
16		2.00	13~18	94 ~ 130
18		2.50	18~25	130~181
20		2.50	26 ~ 35	188 ~ 253

Fine threads

dia (mm)	pitch (mm)	kg-m	ft-lbs
5	0.50	0.35~0.50	2.5 ~ 3.5
6	0.75	0.6 ~ 0.8	4.5 ~ 5.5
8	1.00	1.4~ 1.9	10.0 ~ 13.5
10	1.25	2.6 ~ 3.5	19.0 ~ 25
12	1.50	4.5 ~ 6.2	33 ~ 45
14	1.50	7.4~ 10.2	54 ~ 74
16	1.50	11.5~16	83 ~ 116
18	1.50	17 ~ 23	123 ~ 166
20	1.50	23 ~ 33	166 ~ 239

PARTS REQUIRING USE OF A NON-PERMANENT LOCKING AGENT

Part	Q'ty	See Pg.
Camshaft Sprocket Bolts	2	34,37,70
Carburetor Mounting Screws	4	30
Clutch Release Mounting Screws	2	52
Dynamo Rotor Bolt	1	45,60
Dynamo Field Coil Allen Bolts	3	43
Dynamo Armature Allen Bolts	3	43,44
Starter Motor Retaining Bolts	2	47,60
Starter Motor Chain Guide Screws	2	43,44
Starter Motor Clutch Allen Bolts	3	46
Balancer Chain Guide Screws	2	66
Drive Chain Guide Screws	4	52
Primary Chain Guide Screws	2	124
Balancer Weight Bolts	2	66
Neutral Indicator Switch	1	54
Oil Pressure Relief Valve	1	64
External Shift Mechanism Stopper Screws	2	56,60
External Shift Mechanism Return Spring Pin	1	126
Sump Plate Screws	4	58
Front Fork Bottom Allen Bolts	2	95
Oil Pressure Switch	1	130
Pad B Mounting Screw	1	82,83
Front Brake Light Switch	1	174

RECOMMENDED LOCKING AGENTS

- 1. KAWASAKI LIQUID LOCK-K
- 2. NON-PERMANENT LOCTITE

TROUBLESHOOTING GUIDE

Engine Doesn't Start; Starting Difficulty

Starter motor not rotating

Starter motor defective

Battery voltage low

Relay not contacting or operating

Starter button not contacting

Wiring open or shorted

Ignition switch defective

Engine stop switch defective

Fuse blown

Starter motor rotating but engine doesn't start

Starter motor clutch defective

Engine won't turn over

Valve seizure

Cylinder, piston seizure

Con-rod small end seizure

Con-rod big end seizure

Transmission gear or bearing seizure

Camshaft seizure

Kickstarter return spring broken

Kick ratchet gear not engaging

No fuel flow

No fuel in tank

Fuel tap turned off

Tank cap air vent obstructed

Fuel tap clogged

Fuel line clogged

Float valve clogged

Starter jet clogged

Engine flooded

Float level too high

Float valve worn or stuck open

Starting technique faulty

(When flooded, kick with the throttle fully open to allow more air to reach the engine.)

No spark; spark weak

Battery voltage low

Spark plug dirty, defective, or maladjusted

Spark plug cap or high tension wiring defective

Spark plug cap shorted or not in good contact

Contact breaker points dirty or damaged

Condenser defective

Ignition coil defective

Ignition or engine stop switch shorted

Wiring shorted or open

Compression low

Cylinder, piston worn

Piston rings bad (worn, weak, broken, or sticking)

Piston ring clearance excessive

Cylinder head gasket damaged

Cylinder head not sufficiently tightened down

Cylinder head warped

Spark plug loose

Valve sticking

Valve not closing

Valve spring broken or weak

Valve not seating properly (valve bent, warped, or

worn)

Poor Running at Low Speed

Spark weak

Spark plug dirty, defective, or maladjusted

Spark plug cap or high tension wiring defective

Spark plug cap shorted or not in good contact

Contact breaker points dirty or damaged

Condenser defective

Ignition coil defective

Fuel/air mixture incorrect

Pilot screw(s) and/or throttle stop screw malad-

justed

Pilot jet, slow jet, or air passage clogged

Air cleaner clogged, poorly sealed, or missing

Starter plunger stuck open

Carburetor linkage not right

Float level too high or too low

Fuel tank air vent obstructed

Carburetor intake ducts loose

Compression low

Cylinder, piston worn

Piston rings bad (worn, weak, broken or sticking)

Piston ring clearance excessive

Cylinder head gasket damaged

Cylinder head not sufficiently tightened down

Cylinder head warped

Spark plug loose

Valve sticking

Valve not closing

Valve spring broken or weak

Valve not seating properly (valve bent, warped, or

worn)

Other

Ignition timing maladjusted

Timing not advancing (spring broken or stretched)

Engine oil viscosity too high

Poor Running or No Power at High Speed

Firing incorrect

Spark plug dirty, defective, or maladjusted

Spark plug cap or high tension wiring defective

Spark plug cap shorted or not in good contact

Contact breaker points dirty or damaged Condenser defective

Ignition coil defective

Ignition timing maladjusted

Contact breaker spring weak

Fuel/air mixture incorrect

Main jet clogged or wrong size

Jet needle or needle jet worn

Float level too high or too low

Needle jet bleed hole clogged

Air cleaner clogged, poorly sealed, or missing

Starter plunger stuck open

Water or foreign matter in fuel

Carburetor intake ducts loose

Fuel tank air vent obstructed

Compression low

Cylinder, piston worn

Piston rings bad (worn, weak, broken, or sticking)

Piston ring clearance excessive

Cylinder head gasket damaged

Cylinder head not sufficiently tightened down

Cylinder head warped

Spark plug loose

Valve sticking

Valve not closing

Valve spring broken or weak
Valve not seating properly (valve bent, warped, or worn)

Knocking

Ignition timing maladjusted Carbon built up in combustion chamber Fuel poor quality or incorrect

Miscellaneous

Throttle valve won't fully open Ignition timing maladjusted Timing not advancing Balancer mechanism malfunctioning Brakes dragging Clutch slipping Overheating Engine oil level too high Engine oil viscosity too high

Overheating

Firing incorrect

Spark plug dirty, damaged, or maladjusted Ignition timing maladjusted

Fuel/air mixture incorrect

Main jet clogged Float level too low Carburetor intake ducts loose Air cleaner clogged

Compression high

Carbon built up in combustion chamber

Engine load faulty

Clutch slipping Engine oil level too high Brakes dragging

Lubrication inadequate

Engine oil level too low

Clutch Operation Faulty

Clutch slipping

No clutch lever play
Friction plates worn or warped
Steel plates worn or warped
Clutch springs weak
Clutch cable maladjusted
Clutch inner cable catching
Clutch release mechanism defective
Clutch hub or housing unevenly worn

Clutch not disengaging properly

Clutch lever play excessive
Clutch plates warped or too rough
Clutch spring tension uneven
Engine oil deteriorated
Engine oil of too high a viscosity
Clutch housing frozen on drive shaft
Clutch release mechanism defective

Gear Shifting Faulty

Doesn't go into gear; shift pedal doesn't return

Clutch not disengaging
Shift fork(s) bent or seized
Shift return spring weak or broken
External shift mechanism pawl broken
Shift return spring pin loose

External shift mechanism arm spring broken

Jumps out of gear

Shift fork(s) worn
Gear groove(s) worn
Gear dogs, dog holes, and/or dog recesses worn
Shift drum groove(s) worn

Shift drum positioning pin spring weak or broken Shift fork pin(s) worn

External shift mechanism arm spring or pawl worn Drive shaft, output shaft, and/or gear splines worn

Overshifts

Shift return spring pin loose

Abnormal Engine Noise

Knocking

Ignition timing maladjusted
Carbon built up in combustion chamber
Fuel poor quality or incorrect
Overheating

Piston slap

Cylinder/piston clearance excessive Cylinder, piston worn Con-rod bent Piston pin, piston holes worn

Valve noise

Valve clearance incorrect Valve spring broken or weak Camshaft bearings worn

Other noise

Con-rod small end clearance excessive Con-rod big end clearance excessive Piston ring(s) worn, broken, or stuck Piston seizure damage Cylinder head gasket leaking Exhaust pipe leaking at cylinder head connection Crankshaft runout excessive Engine mounts loose Crankshaft bearings worn Primary chain, chain guides worn Starter motor chain, chain guides worn Balancer chain, chain guides worn Camshaft chain tensioner defective Camshaft chain, sprocket, guides worn Camshaft chain requires adjustment Balancer mechanism springs weak or broken

Abnormal Drive Train Noise

Clutch noise

Clutch housing/friction plate clearance excessive Transmission noise

Transmission gears worn or chipped
Metal chips jammed in gear teeth
Engine oil insufficient or too thin
Kick ratchet gear not properly disengaging
from kick gear

Drive chain noise

Chain worn
Rear and/or engine sprocket(s) worn
Chain lubrication insufficient
Rear wheel misaligned

Abnormal Frame Noise

Front fork shock absorber noise

Oil insufficient or too thin Spring weak or broken

Rear shock absorber noise

Shock absorber defective

Disc brake noise

Pad B loose

Pad surface glazed

Disc warped

Caliper seal defective

Cylinder damaged

Drum brake noise

Brake linings overworn or worn unevenly

Drum worn unevenly or scored

Brake spring weak or broken

Foreign matter in hub

Brake not properly adjusted

Other noise

Brackets, nuts, bolts, etc. not properly mounted or tightened

Oil Pressure Indicator Light Goes On

Engine oil pump defective

Engine oil screen clogged

Engine oil level too low

Camshaft journals worn

Crankshaft bearings worn

Oil pressure indicator light switch defective

Wiring defective

Exhaust Smoke

White smoke

Piston oil ring worn

Cylinder worn

Valve guide worn

Engine oil level too high

Black smoke

Air cleaner clogged

Main jet too large or fallen off

Starter plunger stuck open

Float level too high

Brown smoke

Main jet too small

Float level too low

Carburetor intake ducts loose

Handling and/or Stability Unsatisfactory

Handlebar hard to turn

Steering stem lock nut too tight

Bearing balls damaged

Race(s) dented or worn

Steering stem lubrication inadequate

Steering stem bent

Tire air pressure too low

Handlebar shakes or excessively vibrates

Tire(s) worn

Swing arm bushing damaged

Rim(s) warped, or not balanced

Front, rear axle runout excessive

Spokes loose

Wheel bearing(s) worn

Handlebar clamps loose

Handlebar pulls to one side

Frame bent

Wheel misalignment

Swing arm bent or twisted

Swing arm pivot shaft runout excessive

Steering stem bent

Front fork shock absorber(s) bent

Right/left front fork shock absorber oil level

uneven

Right/left rear shock absorbers unbalanced

Shock absorption unsatisfactory

Too hard:

Front fork oil excessive

Front fork oil viscosity too high

Tire air pressure too high

Shock absorber maladjusted

Too soft:

Front fork oil insufficient and/or leaking

Front fork oil viscosity too low

Front fork, rear shock absorber spring(s) weak

Rear shock absorber oil leaking

Brakes Don't Hold

Disc Brake

Air in the brake line

Pad or disc worn

Brake fluid leak

Brake fluid deteriorated

Primary or secondary cup defective

Master cylinder scratched inside

Drum brake

Brake maladjusted

Brake lining or drum worn

Overheated

Water on brake drum

Brake cam, camshaft worn

Oil on brake linings

Battery Discharged

Battery faulty (e.g., plates sulphated, shorted through sedimentation, electrolyte level too low)

Battery leads making poor contact

Rectifier defective

Ignition switch defective

Regulator defective

Armature coil open or short

Wiring faulty

Battery Overcharged

Regulator defective or wiring open Dynamo defective

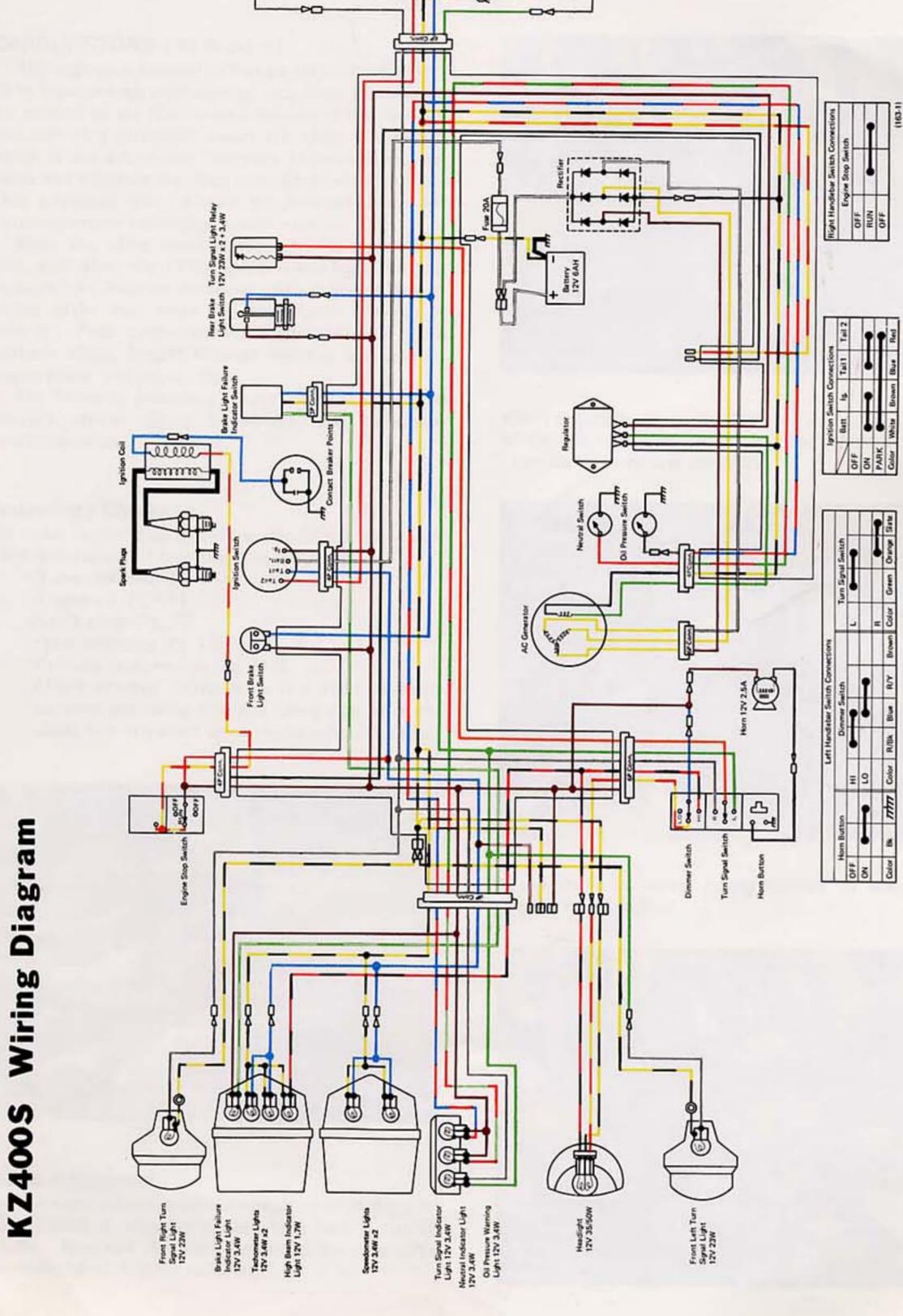
Battery defective

NOTE: This is not an exhaustive list, giving every possible cause for each problem listed. It is meant simply as a rough guide to assist the troubleshooting for some of the more common difficulties. Electrical troubleshooting is not covered here due to its complexity. For electrical problems, refer to the appropriate heading in the Maintenance Section.

Engine Stop Switch Logical 464 ģ 1 8 Turn Signal Indicator Light 12V3.4W Neutral Indicator Light 12V3.4W Speedometer Lights 12V3.4W x 2 Head-gri 12V 35:50W Tachometer Lights 12V3.4W x 2 Front Right Turn Signal Light 12V23W Brake Light Fallore Indicator Light 12V2.4W Oi Presure Warning Light 12V2.4W High Beam Indicator Light 12V 1,7W

KZ400D Wiring Diagram

(US Model)



Rear Right Turn Signal Light 12V 23W 000000 Starter Button Engine Stop Switch [. j . Color Bit minm Color Turn Signal Switch 界 KZ400-D4 Wiring Diagram 8 Model) THE THE 癌 S) Brake Light Failure Indicator Light 12V 3,4W Front Right Turn Signal Light 12V 23W Speedometer Lights 12V 3.4W x 2 High Beam Indicator Light 12V 1.7W Turn Signal Indicator Light 12V 3.4W Tathometer Lights 12V 3.4Wx2 Neutral Indicator Light 12V 3.4W Headight 12V 50/35W

