

STEP 85—Check oil level in final drive gear case and, if necessary, fill gear case up to filler neck with recommended oil. Reinstall and tighten filler cap.

Oil Capacity:

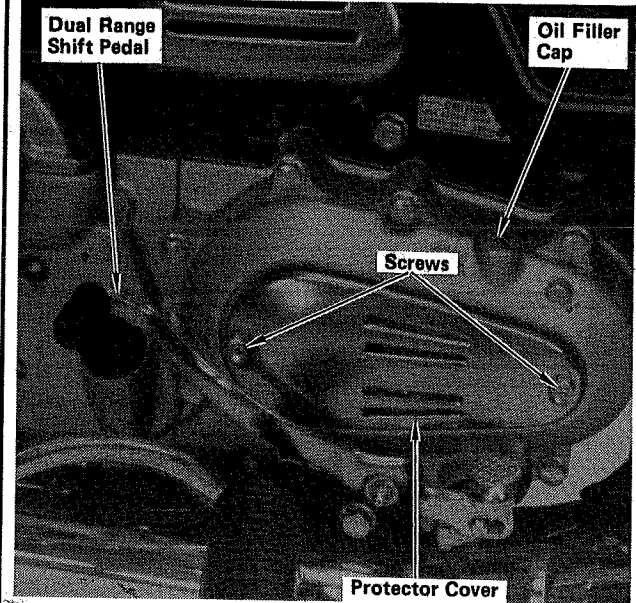
0.15 liter (0.16 U.S. qt.)

Recommended Oil:

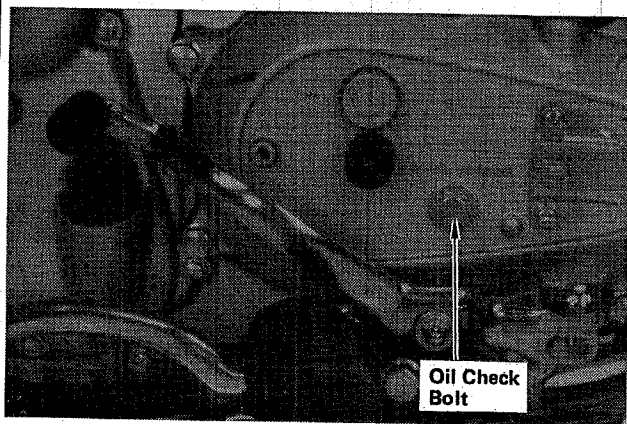
Hypoid Gear Oil

SAE 90 above 5°C. (41°F.)

SAE 80 below 5°C. (41°F.)



STEP 86—With motorcycle still on center-stand, remove dual range transmission protector cover by removing two screws. Remove oil filler cap.



STEP 87—Remove oil level check bolt and check that oil level is even with lower edge of hole. If necessary add recommended oil. Reinstall oil level check bolt and filler cap. Tighten filler cap. Tighten oil check bolt to specified torque and reinstall protector cover.

Oil Capacity:

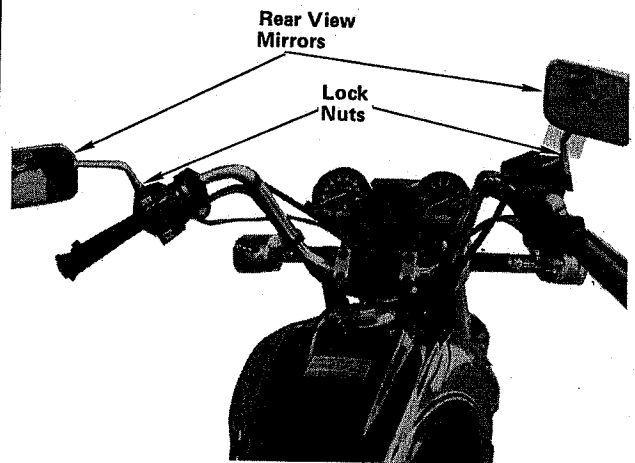
0.6 liter (0.61 U.S. qt.)

Recommended Oil:

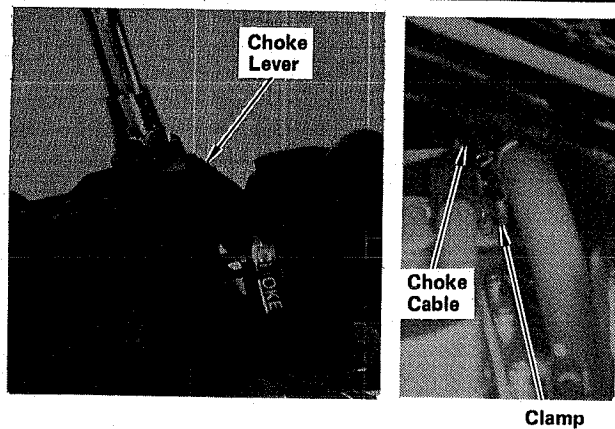
Hypoid Gear Oil SAE 80

Torque specification:

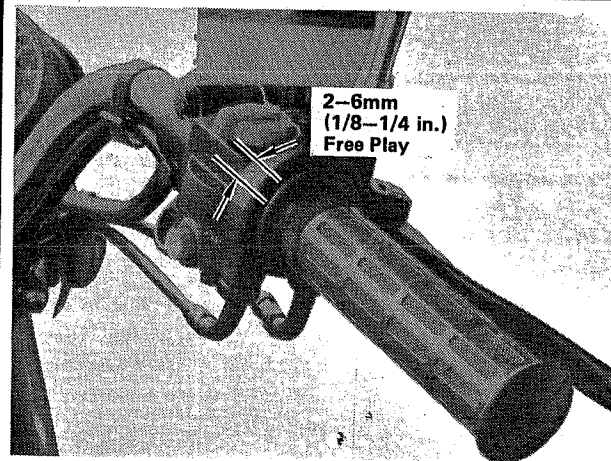
2.2 kg-m (16 lb-ft)



STEP 88—Install rear view mirrors and adjust mirrors prior to delivery. Tighten lock nuts securely.

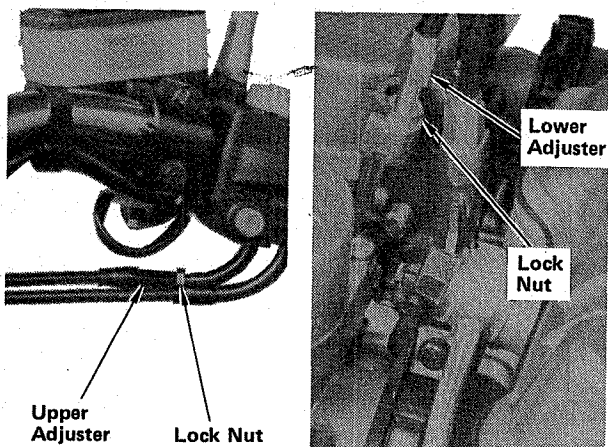


STEP 89—Operate choke lever and check for smooth operation of choke lever. Pull choke lever all the way down to fully open choke valves. Check that choke valves are fully open by trying to move choke lever on carburetor. Push handlebar choke lever all the way up to fully close choke valves. Check that choke valves are fully closed by checking for free play in cable between choke lever on carburetor and cable outer housing. If necessary, adjust free play by loosening cable clamp on carburetor and moving cable outer housing. Tighten clamp after adjustment.

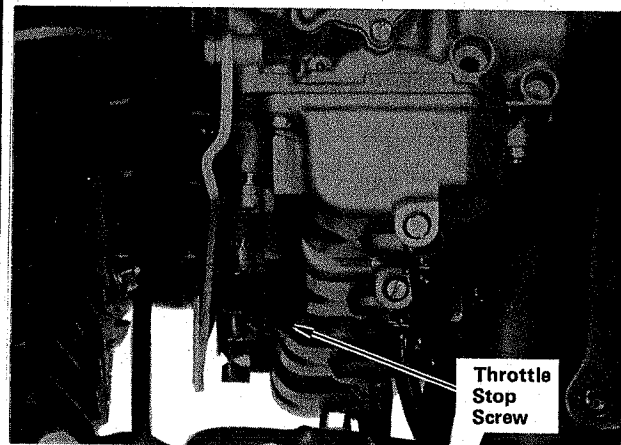


STEP 90—Make sure that there is no deterioration, damage or kinks in throttle cables, and that throttle grip free play is 2–6 mm (1/8–1/4 in.) on outer edge of throttle grip flange. Check for smooth throttle grip full opening and automatic full closing in all steering positions. Adjust if necessary.

NOTE: Accelerator pump may flood carburetors during this inspection.



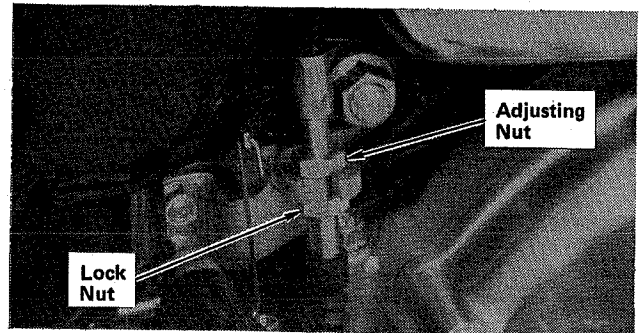
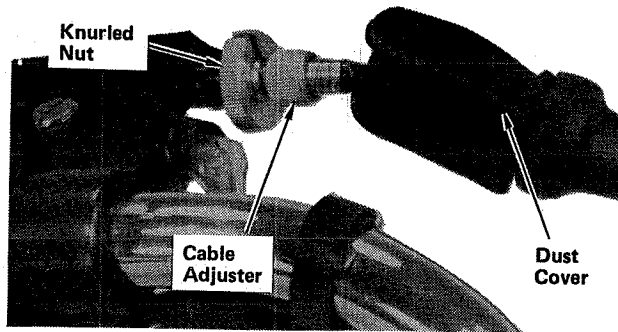
STEP 91—Major throttle free play adjustments are made at lower adjuster. To adjust, loosen adjuster lock nut and turn adjuster. Tighten lock nut. Minor adjustments are performed at upper adjuster. Recheck throttle operation. Replace any damaged parts. Install fuel tank and side covers.



STEP 92—Warm up engine with transmission in NEUTRAL, and motorcycle on centerstand. Turn throttle stop screw as required to obtain specified idle speed.

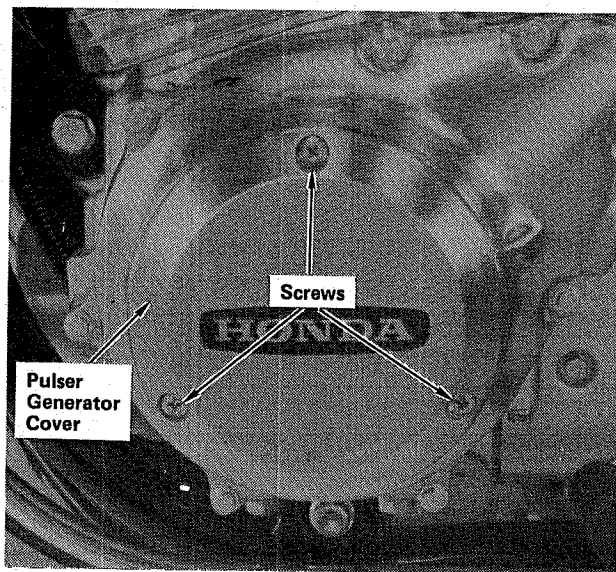
Idle speed: 1,000 ±100 rpm

NOTE: Inspect and adjust idle speed after all other engine adjustments are within specifications. Engine must be warm for accurate idle adjustment. Ten minutes of stop and go operation is sufficient.

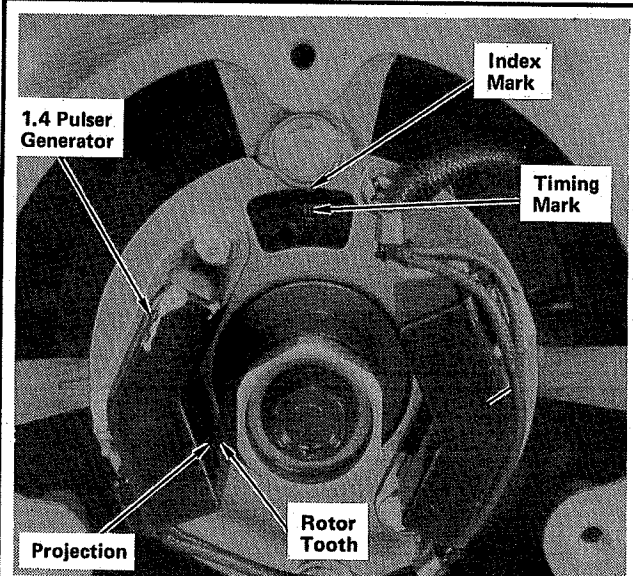


STEP 93— Check clutch lever free play, 10-20 mm ($3/8$ – $3/4$ in.) measured at tip of clutch lever. If adjustment is necessary, loosen knurled nut and turn cable adjuster until correct free play is obtained. Tighten knurled nut. If adjustment cannot be made with clutch lever adjusting bolt, screw adjuster all the way in. Loosen lower clutch cable adjusting lock nut and turn adjusting nut all the way out to obtain maximum free play. Remove clutch lifter cap, loosen clutch lifter lock nut. Then turn adjusting screw clockwise until slight resistance is felt. From this position, turn clutch adjusting screw counterclockwise $3/4$ turn, and tighten lock nut. Reinstall lifter cap. Turn clutch cable lower adjusting nut so that there is 10–20 mm ($3/8$ – $3/4$ in.) of free play at end of clutch lever. Tighten lock nut. Any minor adjustment can be obtained with cable adjuster and knurled nut at clutch lever. After adjustment, be sure all lock nuts are tightened securely. Reinstall dust cover.

CAUTION: After adjusting clutch, check that clutch is not slipping, and that clutch is properly disengaging as follows: start engine, pull in clutch lever and shift into gear, and check that engine does not stall or motorcycle start to creep. Gradually release clutch lever and open throttle, motorcycle should start smoothly and accelerate gradually.

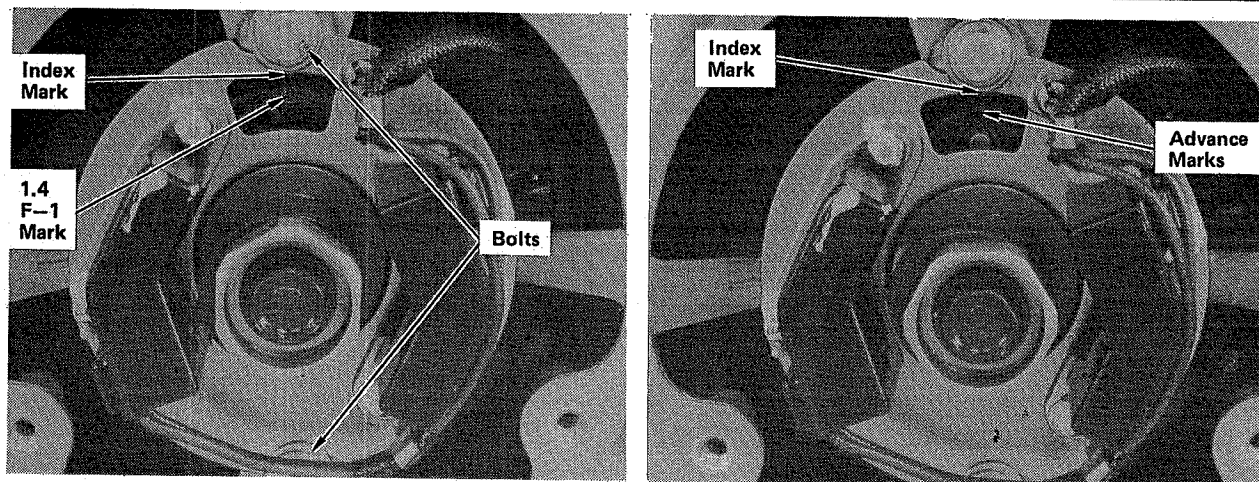


STEP 94—Remove three screws and pulser generator cover.



STEP 95—**STATIC TIMING METHOD:** rotate crankshaft counterclockwise and align "1.4S-F" mark with index mark. Timing is correct if narrow projection of "1-4" pulser generator aligns with rotor tooth.

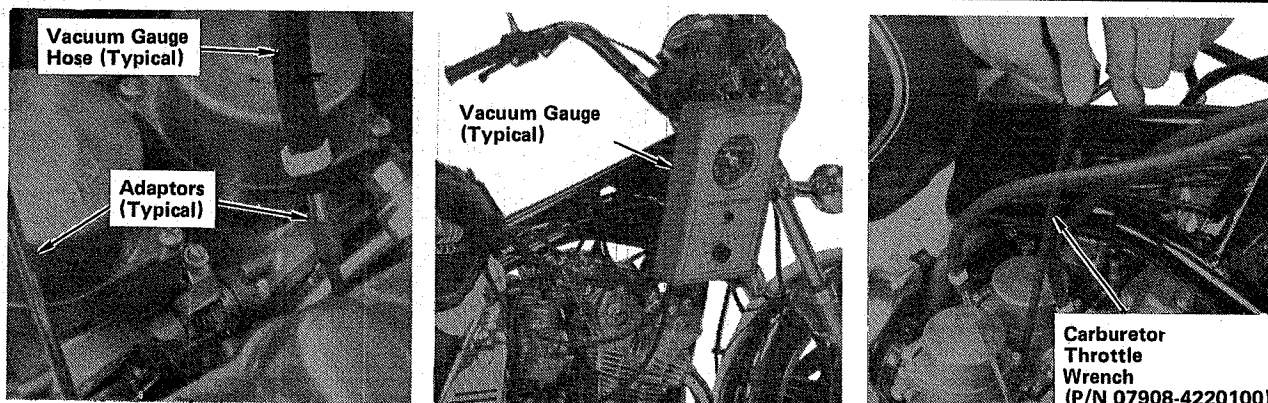
NOTE: Either #1 or #4 piston must be near T.D.C. (Top Dead Center) of compression stroke at this time.



STEP 96— DYNAMIC TIMING METHOD: remove pulser generator cover. Connect stroboscopic timing light to #1 cylinder's high tension lead. Start engine and let it idle. Aim timing light at timing mark. "1.4 F-1" mark should align with index mark. If timing is not correct, adjust by loosening two pulser base plate bolts and rotating plate. Tighten bolts and recheck timing. Start engine and bring engine speed to 3,100 rpm or above and check that index mark is between full advance marks. Replace advancer assembly if it is not functioning properly. Reinstall pulser generator cover.

Idle speed: 1,000 ±100 rpm

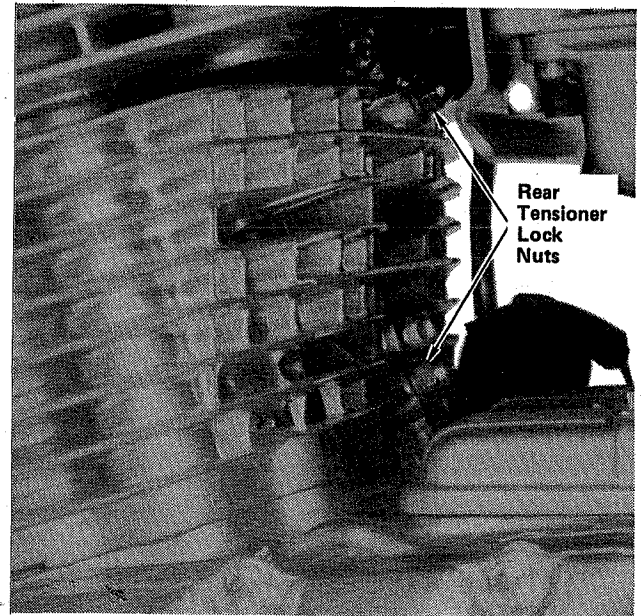
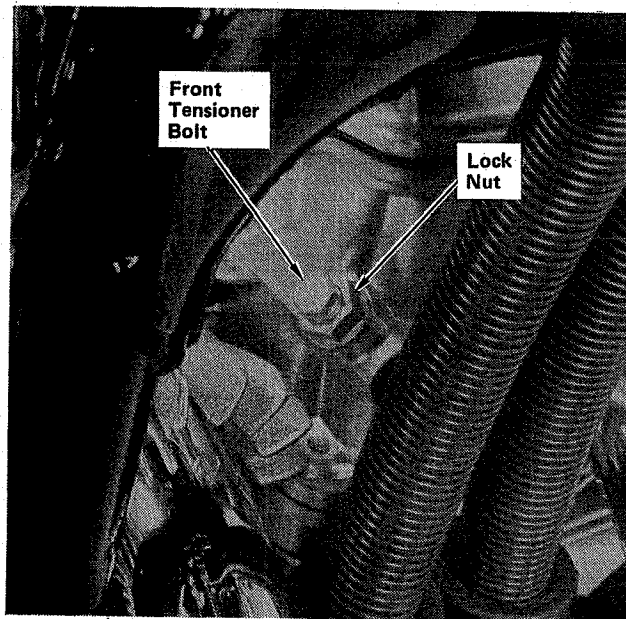
CAUTION: Do not allow engine speed to exceed 9,500 rpm or engine damage may result.



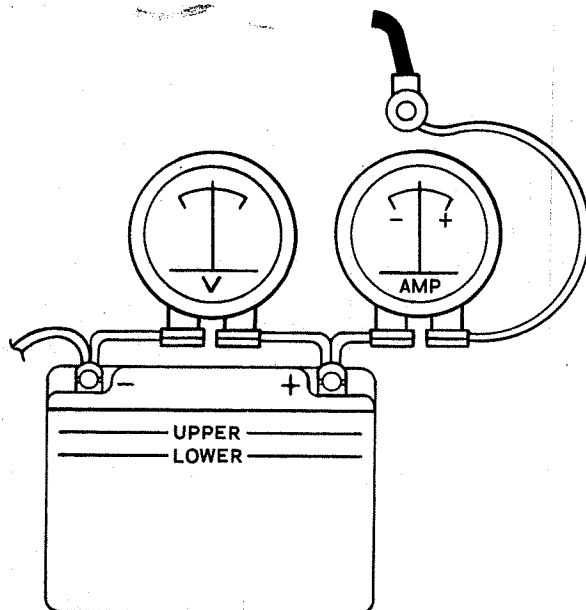
STEP 97—Remove both side covers and seat. Turn fuel petcock OFF and remove fuel line and fuel tank. Prepare a longer fuel line and connect it between fuel tank and carburetor. Position fuel tank higher than normal. Remove plugs from intake ports and install vacuum gauge adaptors, and connect vacuum gauges. Turn fuel petcock ON. Start engine and adjust idle speed. Check that difference in vacuum readings is 60 mm Hg (2.4 in. Hg) or less. If necessary, adjust by loosening lock nuts and turning adjusting screws with carburetor throttle wrench tool. Tighten lock nuts and recheck idle speed and synchronization. Remove fuel line extension, and adaptors. Reinstall fuel tank and side covers. Reinstall seat using socket head bolts removed in Step 20, and install right and left side covers.

NOTES:

- Synchronize carburetors with engine at normal operating temperature, transmission in neutral and motorcycle on centerstand.
- #2 carburetor cannot be adjusted; it is base.



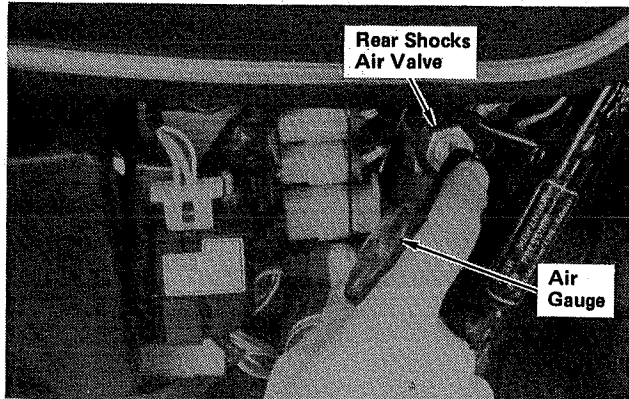
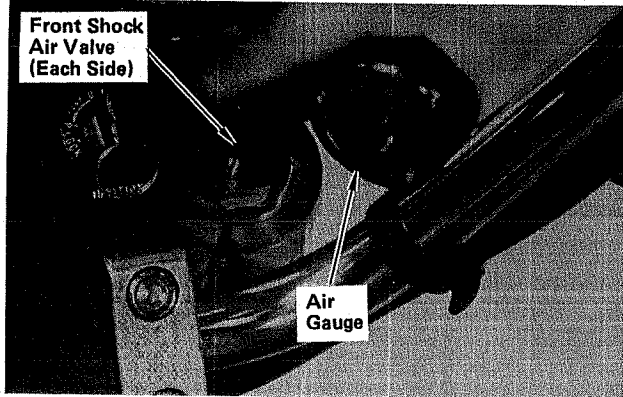
STEP 98—With engine stopped, remove right dynamo cover. Loosen cam chain tensioner lock nut and bolt at front of cylinder head. Tighten bolt while rotating crankshaft clockwise. Tighten lock nut. Loosen both top and bottom nuts of rear cam chain tensioner. Tighten nuts while rotating crankshaft clockwise. The tensioners will automatically provide correct tension when lock nuts/bolts are loosened. Install dynamo cover.



STEP 99—Check battery charging system (volts and amperes) at battery, as described in shop manual.

CAUTION

REMOVE BATTERY AND MAINTAIN IN FULLY CHARGED CONDITION UNLESS MOTORCYCLE IS TO BE DELIVERED IMMEDIATELY. REFER TO SERVICE BULLETIN SL #48. DO NOT USE ELECTRIC STARTER IMMEDIATELY AFTER INSTALLATION OF A FRESHLY CHARGED BATTERY, SOME TIME IS REQUIRED FOR BATTERY TO ATTAIN FULL CAPACITY.



STEP 100—Remove left side cover. Check air pressures in front and rear shock absorbers. Reinstall left side cover.

NOTE: Check air pressures when front and rear shock absorbers are cold.

1. Place motorcycle on centerstand. (Do not use side stand when checking).
2. Remove caps from air valves for front and rear shock absorbers.
3. Check front and rear shock absorber air pressure with an air gauge.
4. Add air if necessary.
5. Reinstall air valve caps.

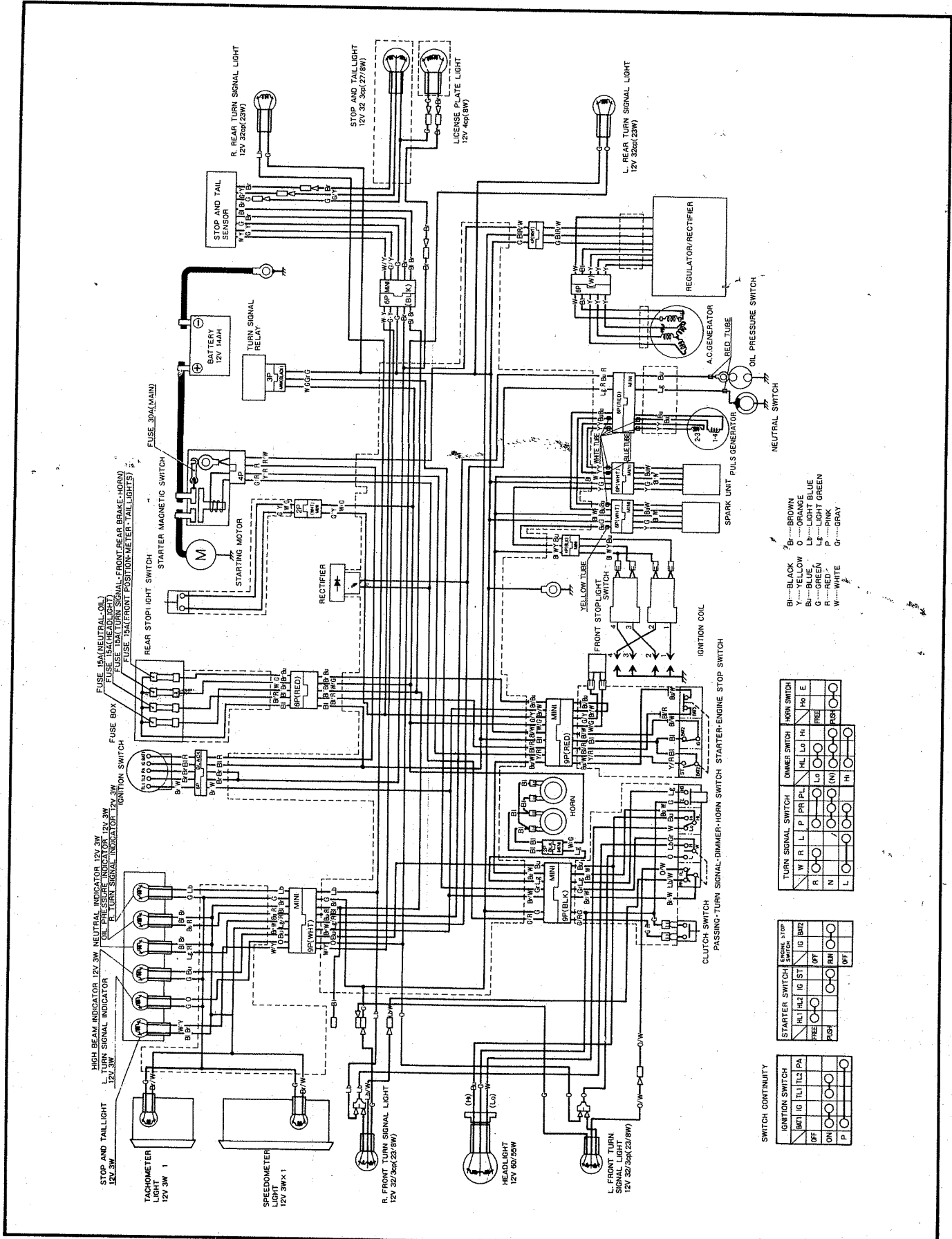
Recommended Air Pressures:

Front: 6–14 psi

Rear: 0–57 psi

TORQUE TABLE

ITEM	SIZE	TORQUE
Handlebar holder socket bolts	8 mm	2.5 kg-m (19 lb-ft)
Master cylinder holder bolts	6 mm	1.0 kg-m (8 lb-ft)
Engine mount bolts	10 mm	4.0 kg-m (29 lb-ft)
Front fork pinch bolts -- upper	-----	1.1 kg-m (9 lb-ft)
Front fork pinch bolts -- lower	-----	4.4 kg-m (32 lb-ft)
Front fender bolts	6 mm	1.0 kg-m (8 lb-ft)
Front axle	-----	6.0 kg-m (44 lb-ft)
Axle holder nut	8 mm	2.0 kg-m (15 lb-ft)
Caliper mounting bolts (caliper bracket)	-----	3.5 kg-m (26 lb-ft)
Anti-dive link bolt	-----	2.2 kg-m (16 lb-ft)
Caliper pivot bolt	-----	3.5 kg-m (26 lb-ft)
Caliper mounting bolts	8 mm	2.2 kg-m (16 lb-ft)
Pad pin retainer bolts	6 mm	1.0 kg-m (8 lb-ft)
Front fork stabilizer bolts	8 mm	2.3 kg-m (17 lb-ft)
Instrument mount cap nuts	8 mm	2.1 kg-m (16 lb-ft)
Headlight case bolts	-----	3.5 kg-m (26 lb-ft)
Rear handrail bolts	8 mm	2.1 kg-m (16 lb-ft)
	6 mm	1.1 kg-m (8 lb-ft)
	10 mm	4.0 kg-m (29 lb-ft)
Foot peg bracket nut	10 mm	4.0 kg-m (29 lb-ft)
Rear brake pedal bolt	8 mm	2.1 kg-m (16 lb-ft)
Oil filter cover bolt	-----	3.0 kg-m (22 lb-ft)
Cylinder head cover bolts	-----	1.0 kg-m (8 lb-ft)
Final drive gear case filler cap	-----	1.2 kg-m (9 lb-ft)
Dual range transmission check bolt	-----	2.2 kg-m (16 lb-ft)



- Bl—BLACK
- Y—YELLOW
- Or—ORANGE
- Gr—GREEN
- LB—LIGHT BLUE
- LG—LIGHT GREEN
- R—RED
- P—PINK
- W—WHITE
- Gr—GRAY

TURN SIGNAL SWITCH		DIMMER SWITCH		HORN SWITCH	
W	R	L	P	PL	HL
○	○	○	○	○	○
R	○	○	○	○	PREZ
N	○	○	○	○	○
L	○	○	○	○	○

STARTER SWITCH		Eng. Stop Switch	
HL	HLZ	IG	IST
○	○	○	○
FREE	○	OFF	○
RUSH	○	○	○
○	○	OFF	○

IGNITION SWITCH	
IGN	IG
○	○
OFF	○
○	○
P	○

NOTE: Check all items listed on the following Pre-Delivery Service Check List. Refer to owner's manual or shop manual for specifications and detailed procedures. Always test ride the unit to make sure that it is functioning properly.

PRE-DELIVERY SERVICE CHECK LIST

- Fill front and rear brake master cylinder reservoirs with DOT 3 brake fluid, and bleed brake system.
- Check operation of front and rear brakes.
- Adjust rear brake pedal height.
- Adjust clutch, check cable routing, and check operation.
- Fill crankcase with recommended oil.
- Remove and inspect fuel tank, drain and flush.
- Check valve clearance, adjust if necessary.
- Reinstall fuel tank, fill with fuel, turn on fuel petcock and check for leaks.
- Check and clear air cleaner element.
- Adjust cam chain tension.
- Install and adjust mirrors.
- Check choke operation and adjust idle speed.
- Check ignition timing. Adjust if necessary.
- Synchronize carburetors.
- Check throttle grip free play, cable routing, and operation in all steering positions.
- Fill dual range transmission and final drive gear case with recommended oil, if necessary.
- Check tire pressure and wheel condition.
- Check operation and air pressure of front and rear suspension.
- Inspect electrical components for proper operation and adjustment:
 - Headlight: Adjust high and low beam aim, and check high beam pilot light.
 - Tail and stoplight.
 - Stoplight switches: Adjust and check operation with both front and rear brake controls.
 - Turn signals.
 - Position lights.
 - License plate light.
 - Horn.
 - Engine stop switch.
 - Starter.
 - Instrument, flasher, oil pressure, headlight, and neutral indicator lights.
 - Battery charging system.
- Check security of all nuts, bolts, and other fasteners.
- Check to ensure that all applicable recall and product update campaigns are complied with.
- TEST RIDE:** Check performance, handling, and operation.
 - Transmission and clutch: Ease of shifting, clutch operation, etc.
 - Acceleration: Smoothness, etc.
 - Handling: Stability and cornering.
 - Brakes: Smoothness and stopping power.
 - Idling: Smoothness, throttle response, return to idle.
 - Recheck idle speed after 10 minutes of stop and go driving.
 - Speedometer and Tachometer: Proper operation.
 - Upon completion of test ride, check for fuel and oil leaks.

1983 LOOSE PARTS

The following is a list of items contained in the crate.

PART NAME	QTY	H/C	PART NUMBER
Bolt, socket head, 8 x 32 mm, handlebar	4	125114	90154-MB1-000
Upper holder, handlebar, right	1	124989	53235-MB1-000
Upper holder, handlebar, left	1	126069	53236-MB1-000
Handlebar cover	1	124976	53105-MB1-000
Cap, socket head bolt	4	125167	91455-MB0-000
Front fender	1	129009	61100-MG1-000
Grommet, front fender	1	105226	45451-471-000
Bolt, flange, 6 x 16 mm, front fender	4	029741	95700-06016
Front wheel	1	-----	-----
Speedometer gearbox	1	124808	44800-MB0-003
Screw, oval head, 5 x 20 mm	1	076872	93700-05020-0G
Front axle	1	-----	44301-461-770
Axle collar	1	094634	44311-461-770
Bolt, flange, 8 x 50 mm, front wheel	1	068787	95700-08050-00
Nut, flange, 8 mm, front wheel	1	048114	94050-08000
Bolt, flange, 8 x 55 mm, front wheel	1	121310	90180-MA3-660
Speedometer cable guide	1	124812	44832-MB1-000
Bolt, flange, 8 x 20 mm	1	121333	95700-08020-07
Front fork stabilizer (front fork brace)	1	-----	53240-MB1-010
Bolt, socket head, 8 x 17 mm	4	125112	90153-MB0-000
Cap, socket head bolt	4	125167	91455-MB0-000
Rear view mirror, right	1	125071	88110-MB1-003
Rear view mirror, left	1	125073	88120-MB1-003
Battery	1	105399	31500-461-771 or 31500-461-772
Battery terminal bolt	2	-----	-----
Battery terminal bolt nut	2	-----	-----
Battery terminal bolt washer	2	-----	-----
Right side cover	1	-----	83620-MG1-000
Left side cover	1	-----	83720-MG1-000
Dust cover, handle lever	1	092689	53180-425-010
Wire band B1	4	046881	32161-404-000
Master cylinder holder	1	123573	45517-MB0-006
Bolt, socket head, 6 x 23 mm	2	123707	90117-MB0-000
Handrail	1	129016	77320-MG1-000
Bolt, handrail	4	129064	90191-MG1-000
Rear shock absorber upper nut	2	129067	90309-MG1-000
Rear reflex reflector	2	079999	33741-148-871
Right footpeg	1	128910	50630-MG1-000
Nut, flange, 10 mm	1	048386	94050-10000
Rear brake pedal	1	128900	46500-MG1-000
Bolt, flange, 8 x 25 mm	1	067121	95700-08025-00
Owner's manual	1	129080	31MG1000
Nut, instrument	2	125125	90303-MB1-000

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HONDA

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