

HONDA

SERVICE MANUAL



85-87

TRX 250

**FOURTRAX
250**

IMPORTANT SAFETY NOTICE

 **WARNING** *Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.*

CAUTION: *Indicates a possibility of personal injury or equipment damage if instructions are not followed.*

NOTE: Gives helpful information.

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. It is important to note that this manual contains some warnings and cautions against some specific service methods which could cause **PERSONAL INJURY** to service personnel or could damage a vehicle or render it unsafe. Please understand that those warnings could not cover all conceivable ways in which service, whether or not recommended by Honda might be done or of the possibly hazardous consequences of each conceivable way, nor could Honda investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda *must satisfy himself thoroughly* that neither personal safety nor vehicle safety will be jeopardized by the service method or tools selected.

HOW TO USE THIS MANUAL

Sections 1 through 3 apply to the whole Four Trax, while sections 4 through 18 describe parts of the Four Trax, grouped according to location.

Find the section you want on this page, then turn to the table of contents on page 1 of that section.

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

If you don't know what the source of a problem is, refer to section 19, Troubleshooting.

CONTENTS

	GENERAL INFORMATION	1
	LUBRICATION	2
	MAINTENANCE	3
ENGINE	FUEL SYSTEM	4
	ENGINE REMOVAL/INSTALLATION	5
	CYLINDER HEAD/VALVES	6
	CYLINDER/PISTON	7
	CLUTCH/OIL PUMP/KICK STARTER	8
	ALTERNATOR/STARTER CLUTCH/ GEARSHIFT LINKAGE	9
	CRANKCASE/CRANKSHAFT/ TRANSMISSION	10
	CHASSIS	FRONT WHEEL/SUSPENSION/STEERING
BRAKES		12
REAR WHEEL/SUSPENSION/FINAL DRIVE		13
CARRIERS/FENDERS/EXHAUST MUFFLER		14
ELECTRICAL	IGNITION SYSTEM	15
	BATTERY/CHARGING SYSTEM	16
	STARTER SYSTEM	17
	LIGHTS/SWITCHES	18
	TROUBLESHOOTING	19

1. GENERAL INFORMATION

GENERAL SAFETY	1-1	TORQUE VALUES	1-5
SERVICE RULES	1-1	TOOLS	1-7
MODEL IDENTIFICATION	1-2	CABLE & HARNESS ROUTING	1-9
SPECIFICATIONS	1-3		

GENERAL SAFETY

WARNING

If the engine must be running to do some work, make sure the area is well-ventilated. Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas.

WARNING

The battery generates hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near the battery, especially while charging it.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in your work area.

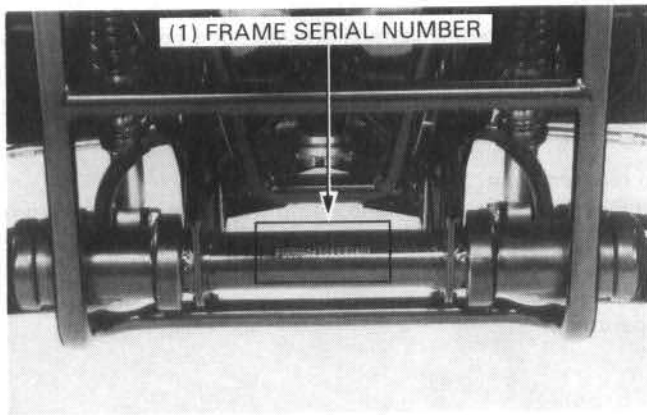
WARNING

The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and call a doctor if electrolyte gets in your eyes.

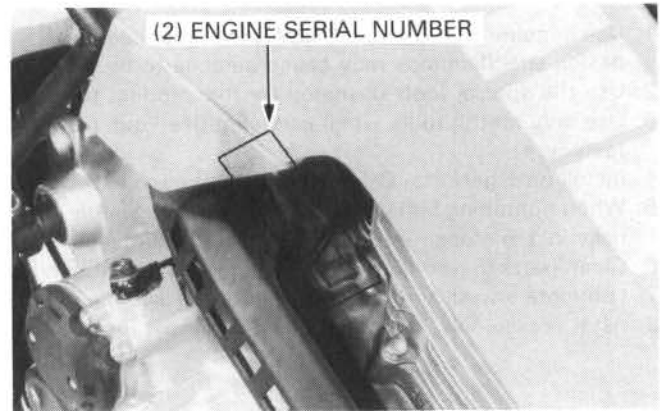
SERVICE RULES

1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalents. Parts that don't meet HONDA's design specifications may cause damage to the Four Trax.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing this Four Trax. Metric bolts, nuts and screws are not interchangeable with English fasteners.
4. Install new gaskets, O-rings cotter pins, and lock plates when reassembling.
5. When tightening bolts or nuts, begin with the larger-diameter or inner bolt first. Then tighten to the specified torque diagonally in 1-5 steps, unless a particular sequence is specified.
6. Clean parts in non-flammable or high flash point solvent upon disassembly.
7. Lubricate any sliding surfaces before reassembly.
8. After reassembly, check all parts for proper installation and operation.

MODEL IDENTIFICATION

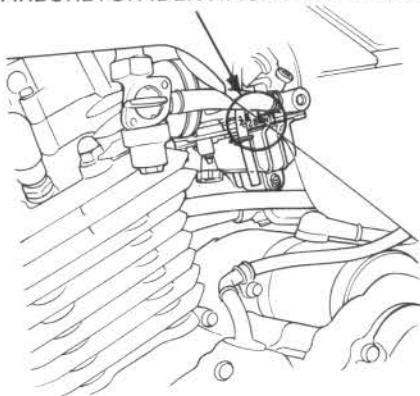


The frame serial number is stamped on the arm hinge.



The engine serial number is stamped on the upper side of the right crankcase.

(3) CARBURETOR IDENTIFICATION NUMBER



The carburetor identification number is on the carburetor body left side.

SPECIFICATIONS

<p>DIMENSIONS</p>	<p>Overall length Overall width Overall height Wheel base Seat height Foot peg height Ground clearance Dry weight</p>	<p>1,875 mm (73.8 in) 1,080 mm (42.5 in) 1,020 mm (40.2 in) 1,235 mm (48.6 in) 765 mm (30.1 in) 290 mm (11.4 in) 160 mm (6.3 in) '85 212 kg (467 lb) AFTER '85 217 kg (478 lb)</p>
<p>FRAME</p>	<p>Type Rim size Front tire size, pressure Rear tire size, pressure Front brake Rear brake Fuel tank capacity Fuel reserve capacity Toe-in Caster angle Camber angle Trail length Tread</p>	<p>Semi-double cradle 5.5 x 10 DC 9.25 x 9 DC 21 x 7.00—10, 0.2 kg/cm² (2.9 psi) 25 x 12.00—9, 0.15 kg/cm² (2.2 psi) Hydraulic operated leading trailing shoe Cable operated leading trailing shoe 10.0 liter (2.6 US gal, 2.2 Imp gal) 2.0 liter (0.5 US gal, 0.4 Imp gal) 0 ± 7.5 mm (0 ± 0.30 in) 8° 1° 42 mm (1.65 in) 800 mm (31.5 in) 800 mm (31.5 in)</p>
<p>ENGINE</p>	<p>Type Cylinder arrangement Bore x stroke Displacement Compression ratio Valve train Maximum horsepower Maximum torque Oil capacity Lubrication system Cylinder compression Intake valve Exhaust valve Valve clearance (Cold)</p>	<p>Gasoline, air-cooled 4-stroke Single cylinder inclined 20° 74 x 57.3 mm (2.9 x 2.3 in) 246 cc (15.0 cu-in) 9 : 1 Overhead camshaft, chain driven 19.3 HP/7,000 rpm (SAE) 2.03 kg-m (14.7 ft-lb)/6,000 rpm (SAE) 2.5 liter (2.6 US qt, 2.2 Imp qt) 2.1 liter (2.2 US qt, 1.8 Imp qt) after draining Forced pressure and wet sump 12.5 ± 1.0 kg/cm² (178 ± 14 psi) 8° BTDC 35° ABDC 5° BBDC 40° ATDC } at 1 mm lift 0.08 mm (0.003 in) 0.08 mm (0.003 in)</p>
<p>CARBURETOR</p>	<p>Type Venturi dia. Main jet Pilot screw opening Jet needle Float level Idle speed</p>	<p>Dual valve 27 mm (1.06 in) #128 2-3/8 turns out 3rd groove 18.5 mm (0.73 in) 1,400 ± 100 rpm</p>

GENERAL INFORMATION

DRIVE TRAIN	Clutch Transmission Primary reduction Gear ratio S/L I II III IV Reverse Final reduction Gearshift pattern	Wet multi-plate, semi-automatic 5-speed constant mesh with reverse 2.407 (65/27) 4.083 (49/12) 2.389 (43/18) 1.609 (37/23) 1.179 (33/28) 0.906 (29/32) 5.397 5.684 Left foot operated return system, Forward: N-S/L-1-2-3-4 Reverse: N-R
ELECTRICAL	Ignition Ignition timing Alternator Battery Spark plug Spark plug gap Headlight Taillight Neutral indicator Reverse indicator Oil temperature indicator Initial Full advance Capacity	CDI 13° BTDC at idle 31° BTDC at 3,500 rpm 200W/5,000 rpm 12V-12AH DR8ES-L (NGK) X24ESR-U (ND) 0.6-0.7 mm (0.024-0.028 in) 12V 45W/45W 12V 3.4W x 2 12V 3W 12V 3W 12V 3.4W

TORQUE VALUES

ENGINE

Item	Q'ty	Thread Dia. (mm)	Torque		
			N·m	kg·m	ft·lb
Cylinder head socket bolt	3	8	22–28	2.2–2.8	16–20
Cylinder head cap nut	4	10	35–45	3.5–4.5	25–33
Cylinder stud bolt	4	10	8–12	0.8–1.2	6–9
Crankcase bolt	14	6	8–12	0.8–1.2	6–9
Gearshift return spring pin	1	8	18–25	1.8–2.5	13–18
Output drive gear bearing outer lock nut	1	64	90–110	9.0–11.0	65–80
Output gear case socket bolt	3	8	20–25	2.0–2.5	14–18
Output driven gear bearing holder socket bolt	3	8	20–25	2.0–2.5	14–18
Output driven gear bearing outer lock nut	1	60	90–110	9.0–11.0	65–80
Output driven gear bearing inner lock nut	1	28	70–80	7.0–8.0	51–58
Kick starter stopper plate socket bolt	2	6	10–14	1.0–1.4	7–10
Flywheel bolt	1	12	100–120	10.0–12.0	72–87
Pulse generator screw	2	5	5–7	0.5–0.7	3.6–5.1
Right crankcase cover bolt	12	6	8–12	0.8–1.2	6–9
Left crankcase cover bolt	11	6	8–12	0.8–1.2	6–9
Oil separator plate bolt	2	6	8–12	0.8–1.2	6–9
Clutch lock nut	1	18	100–120	10.0–12.0	72–87
Clutch lifter cap bolt	4	6	10–14	1.0–1.4	7–10
Centrifugal clutch lock nut	1	20	110–130	11.0–13.0	80–94
Cylinder base bolt	2	6	8–12	0.8–1.2	6–9
Cam sprocket bolt	2	7	17–23	1.7–2.3	12–17
Cylinder head cover bolt	7	6	8–12	0.8–1.2	6–9
Valve adjusting lock nut	2	6	15–18	1.5–1.8	11–13
Cam chain guide holder socket bolt	1	6	8–12	0.8–1.2	6–9
Oil pipe bolt	3	7	8–12	0.8–1.2	6–9
Spark plug	1	12	15–20	1.5–2.0	11–14
Intake pipe band screw	1	5	3–5	0.3–0.5	2–4
Oil filter cover bolt	3	6	8–12	0.8–1.2	6–9
Neutral/Reverse switch	2	10	11–15	1.1–1.5	8–11
Starter clutch socket bolt	6	8	18–25	1.8–2.5	13–18
Cam chain tensioner lifter bolt	2	6	8–12	0.8–1.2	6–9
Alternator stator bolt	3	6	8–12	0.8–1.2	6–9
Breather plate socket bolt	1	6	10–14	1.0–1.4	7–10
Clutch adjusting screw lock nut	1	8	19–25	1.9–2.5	14–18
Drain bolt	1	12	15–25	1.5–2.5	11–18
Cam chain tensioner lifter sealing bolt	1	6	8–12	0.8–1.2	6–9
Oil temperature sensor	1	12	15–20	1.5–2.0	11–14

GENERAL INFORMATION

FRAME

Item	Q'ty	Thread Dia. (mm)	Torque		
			N•m	kg-m	ft-lb
Handlebar upper holder bolt	4	8	18-30	1.8-3.0	13-22
Handlebar lower holder nut	2	10	40-48	4.0-4.8	29-35
Steering stem nut	1	16	80-140	8.0-14.0	58-101
Steering bearing adjustment nut (initial)	1	—	25-35	2.5-3.5	18-25
Steering bearing adjustment nut (See page 11-15)	1	—	1-2	0.1-0.2	0.7-1.4
Wheel nut	16	10	50-60	5.0-6.0	36-43
Front axle nut	2	16	80-120	8.0-12.0	58-87
Rear axle nut	2	16	80-120	8.0-12.0	58-87
Rear brake panel nut	4	10	80-90	8.0-9.0	58-65
Front shock absorber mount bolt	2	10	40-50	4.0-5.0	29-36
Swing arm right pivot bolt	1	30	16-20	1.6-2.0	12-14
Swing arm pivot lock nut	1	30	100-130	10.0-13.0	72-94
Final gear case mount bolt	4	10	50-60	5.0-6.0	36-43
	4	8	30-36	3.0-3.6	22-26
Rear left bearing housing bolt	4	8	30-36	3.0-3.6	22-26
Front engine hanger bolt	3	10	60-70	6.0-7.0	43-51
Upper engine hanger bolt	6	10	65-75	6.5-7.5	47-54
Rear engine hanger bolt	3	10	65-75	6.5-7.5	47-54
Lower engine hanger bolt (Front)	1	10	65-75	6.5-7.5	47-54
Lower engine hanger bolt (Rear)	1	10	80-90	8.0-9.0	58-65
Gearshift pedal bolt	1	6	10-14	1.0-1.4	7-10
Foot peg bracket bolt	4	10	40-50	4.0-5.0	29-36
Intake pipe bolt	2	6	6-9	0.6-0.9	4-7
Muffler clamp bolt	2	8	18-28	1.8-2.8	13-20
Direct current receptacle bolt	2	5	1.5-2.5	0.15-0.25	1.1-1.8
Master cylinder reservoir cover screw	2	4	1-2	0.1-0.2	0.7-1.4
Brake hose bolt	5	10	25-35	2.5-3.5	18-25
Ball joint/Tie rod nut	8	10	35-43	3.5-4.3	25-31
Kingpin lock nut	2	8	20-25	2.0-2.5	14-18
Front arm hinge bolt	2	35	80-100	8.0-10.0	58-72
Rear shock absorber mount bolt	2	10	80-90	8.0-9.0	58-65
Final gear case cover bolt	2	10	45-50	4.5-5.0	33-36
	6	8	23-28	2.3-2.8	17-20
Pinion joint nut	1	16	100-120	10.0-12.0	72-87
Pinion bearing lock nut	1	60	90-110	9.0-11.0	65-80
Trailer hitch bolt	2	10	70-80	7.0-8.0	51-58
Grease fitting	6	—	3-5	0.3-0.5	2-4
Wheel cylinder hose bolt	4	8	25-35	2.5-3.5	18-25

Torque specifications listed above are for the most important tightening points. If a torque specification is not listed, follow the standards given below.

STANDARD TORQUE VALUES

Item	Torque N•m (kg-m, ft-lb)	Item	Torque N•m (kg-m, ft-lb)
5 mm bolt, nut	4.5-6 (0.45-0.6, 3-4)	5 mm screw	3.5-5 (0.35-0.5, 2-4)
6 mm bolt, nut	8-12 (0.8-1.2, 6-9)	6 mm screw, 6 mm flange bolt with 8 mm head	7-11 (0.7-1.1, 5-8)
8 mm bolt, nut	18-25 (1.8-2.5, 13-18)	6 mm flange bolt, nut	10-14 (1.0-1.4, 7-10)
10 mm bolt, nut	30-40 (3.0-4.0, 22-29)	8 mm flange bolt, nut	24-30 (2.4-3.0, 17-22)
12 mm bolt, nut	50-60 (5.0-6.0, 36-43)	10 mm flange bolt, nut	35-45 (3.5-4.5, 25-33)

TOOLS

SPECIAL

* Newly designed for this model

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	TOOL NUMBER	REF. PAGE
Universal bearing puller	07631-0010000	Equivalent commercially available in U.S.A.		10-5, 13-18
Socket bit, 17 mm	07703-0020500			13-13, 15
Pivot lock nut wrench	07908-4690001	Lock nut wrench (U.S.A. only)	KS-HBA-08-469	13-13, 15
Steering stem socket	07916-3710100			11-14
Lock nut wrench, 30 x 64 mm	07916-MB00001	Lock nut wrench, 30 x 64 mm Attachment (U.S.A. only)	07916-MB00000	10-18, 20
Lock nut wrench, 34 x 44 mm	07916-ME50001			Lock nut wrench, 34 x 44 mm
		Attachment (U.S.A. only)	07916-ME50000	
Clutch center holder	07923-KE10001			8-8, 11
Pinion holder	07924-HA00000			13-18, 19, 25
Shaft holder	07924-ME50000			10-14, 15, 21
Crank assembly tool set	07931-KF00000			10-7
- crankshaft assembly collar	07931-KF00100			10-7
- threaded adapter	07931-KF00200			10-7
- shaft puller	07931-ME40000			10-7, 13-19
Bearing remover, 17 mm	07936-3710300			8-14, 10-6, 11
Bearing remover handle	07936-3710100			8-14, 10-6, 11, 17
Bearing remover weight	07741-0010201	Remover weight	07936-3710200	8-14, 10-6 11, 13, 14
Bearing remover set, 30 mm	07936-8890100	Not available in U.S.A.		13-14
- remover head	07936-8890200			13-14
- bearing remover, 30 mm	07936-8890300			13-14
Bearing remover, 15 mm	07936-KC10000	Remover weight	07936-3710200	10-17
- remover weight	07741-0010201			10-17
Bearing remover, 20 mm	07936-3710600	Not available in U.S.A.		8-14
Pinion gear driver	07945-HA00000			13-9, 10, 21
Attachment, 28 x 30 mm	07946-1870100			8-14, 10-12
Attachment	07946-HA00000			10-19
Compressor base	07959-MB10000			13-12
Kingpin driver	07965-VM50000			11-9
Spring compressor adapter	07967-VM50100			11-13
Collar	07967-GA70101			11-13, 13-17
Spring compressor adapter	07967-KC10000			13-12
Valve guide reamer	07984-2000000			6-8
Snap ring pliers	07914-3230001			12-10
* Inspection adapter (C1)	07508-0012500	Not available in U.S.A.		15-2, 4
* Clutch holder	07923-HA80000			8-4, 7
* Camber/caster gauge attachment	07910-MJ30100			3-12
Attachment	07965-SA50600			12-12
Digital multimeter	07411-0020000	Digital multimeter (U.S.A. only)	KS-AHM32-003	15-1, 16-1
Circuit tester (SANWA)	07308-0020000	Circuit tester (KOWA)	TH-5H-1	15-1, 16-1

GENERAL INFORMATION

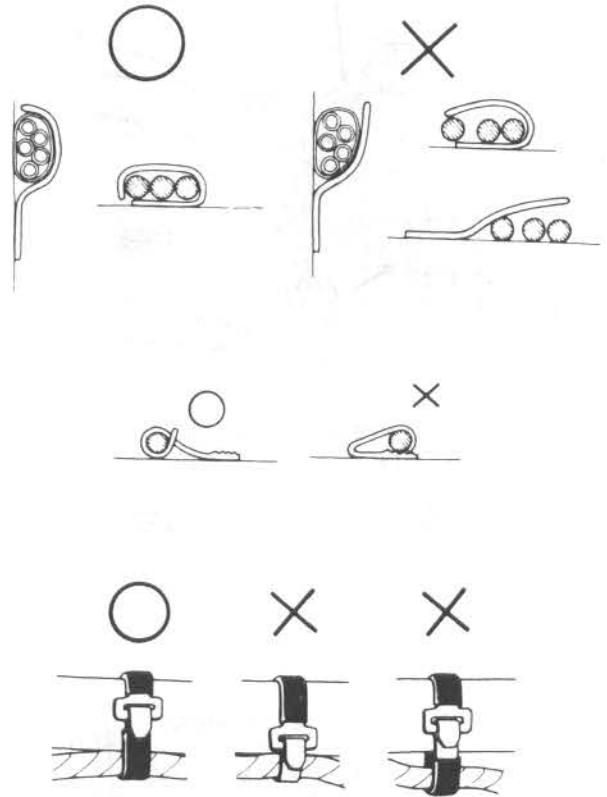
COMMON

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	TOOL NUMBER	REF. PAGE		
Float level gauge	07401-0010000	Equivalent commercially available in U.S.A.	089201-200-000	4-10		
Valve adjusting wrench, 10 x 12 mm	07708-0030200			3-4		
Valve adjusting wrench B	07708-0030400	Valve adjusting wrench		3-4		
Extension bar	07716-0020500	Equivalent commercially available in U.S.A.		11-14		
Flywheel holder	07725-0040000				9-4, 5	
Rotor puller	07733-0020001	Flywheel puller	07933-3950000	9-5		
Valve guide remover, 5.5 mm	07742-0010100	Valve guide remover, 5.5 mm	07942-3290100	6-8		
Attachment, 37 x 40 mm	07746-0010200			10-6, 13-14		
Pilot, 17 mm	07746-0040400			8-14, 10-6		
Pilot, 15 mm	07746-0040300			10-17		
Attachment, 42 x 47 mm	07746-0010300			8-14		
				10-5, 11, 16, 17		
				11-15		
				12-6		
				13-18, 20		
Pilot, 25 mm	07746-0040600			10-11		
Pilot, 20 mm	07746-0040500			8-14, 10-11, 12-6		
				10-11		
Pilot, 22 mm	07746-0041000			13-17, 19		
Attachment, 32 x 35 mm	07746-0010100			13-21		
Driver B	07746-0020100			10-12, 17, 11-11, 13-9, 10, 20		
Attachment, 52 x 55 mm	07746-0010400			10-16, 17, 13-10		
				13-20, 22		
Pilot, 28 mm	07746-0041100			10-6, 7, 13-20, 22		
Attachment, 62 x 68 mm	07746-0010500			10-6, 7		
Pilot, 35 mm	07746-0040800			12-5		
Attachment, 72 x 75 mm	07746-0010600	Equivalent commercially available in U.S.A.		12-5		
Remover head, 20 mm	07746-0050600				8-14, 10-5, 6, 7, 11, 12, 16, 17 11-12, 15, 12-6, 12, 13-9, 10, 14, 17, 18, 19, 20, 22	
Bearing remover shaft	07746-0050100				10-17, 19, 13-21	
Driver	07749-0010000				10-17	
Driver C	07746-0030100			13-21		
Attachment, 30 mm I.D.	07746-0030300			10-17		
Attachment, 35 mm I.D.	07746-0030400			13-21		
Valve spring compressor	07757-0010000	Valve spring compressor	07957-3290001	6-6, 11		
Shock absorber compressor	07959-3290001			11-13, 13-12, 17		
Tire breaker set	07772-0050000	Universal bead breaker (U.S.A. only)	GN-AH-958-BB1	13-5		
- breaker arm compressor	07772-0050100					13-5
- breaker arm	07772-0050200					13-5

CABLE & HARNESS ROUTING

Note the following when routing cables and wire harnesses:

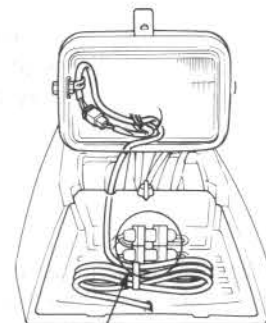
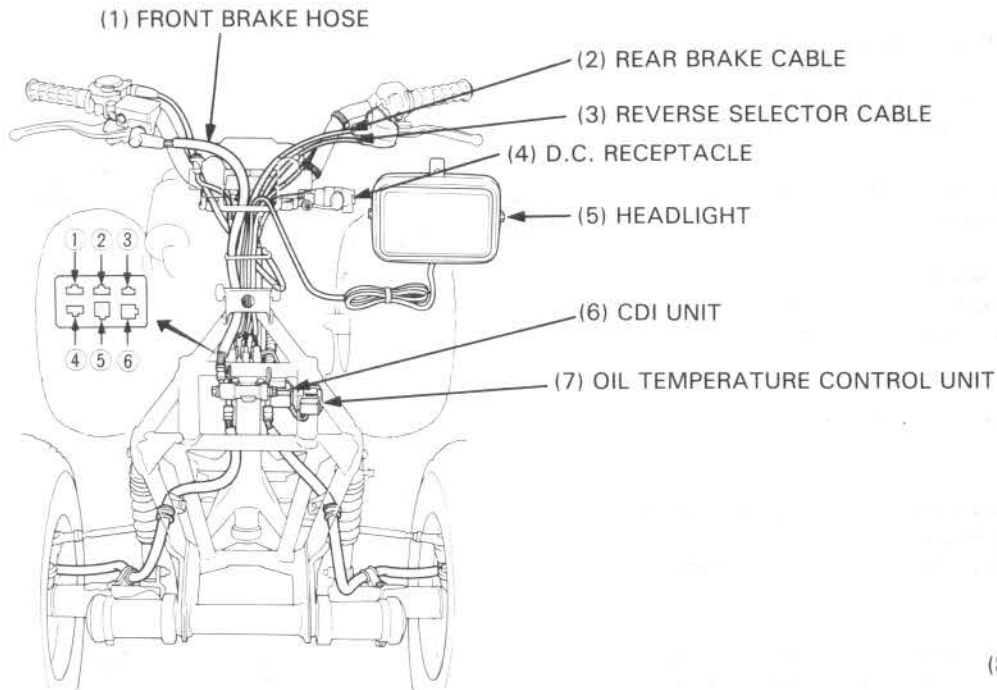
- A loose wire, harness or cable can be a safety hazard. After clamping, check each wire to be sure it is secure.
- Do not squeeze a wire against a weld or end of its clamp when a weld-on clamp is used.
- Secure wires and wire harnesses to the frame with their respective wire bands at the designated locations. Tighten the bands so that only the insulated surfaces contact the wires or wire harnesses.
- Route harnesses so they are not pulled taut or have excessive slack.
- Protect wires and harnesses with electrical tape or tubes if they contact a sharp edge or corner. Clean the attaching surface thoroughly before applying tape.
- Do not use a wire or harness with a broken insulator. Repair by wrapping them with protective tape or replace them.
- Route wire harnesses to avoid sharp edges or corners. Also avoid the projected ends of bolts and screws.
- Keep wire harnesses away from the exhaust pipe and other parts that get hot.
- Be sure grommets are seated in their grooves properly.
- After clamping, check each harness to be certain that it is not interfering with any moving or sliding parts.
- Wire harnesses routed along the handlebars should not be pulled taut, have excessive slack, be pinched by, or interfere with adjacent or surrounding parts in all steering positions.
- After routing, check that the wire harnesses are not twisted or kinked.



O: CORRECT
x: INCORRECT

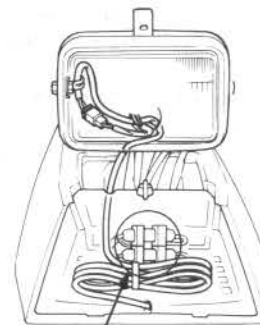
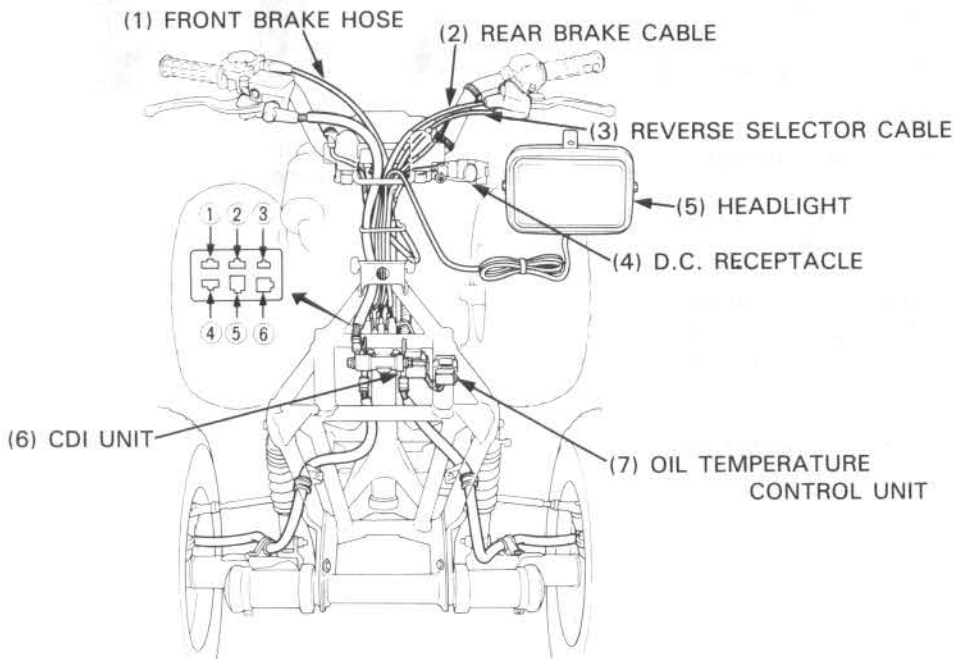
GENERAL INFORMATION

'85:



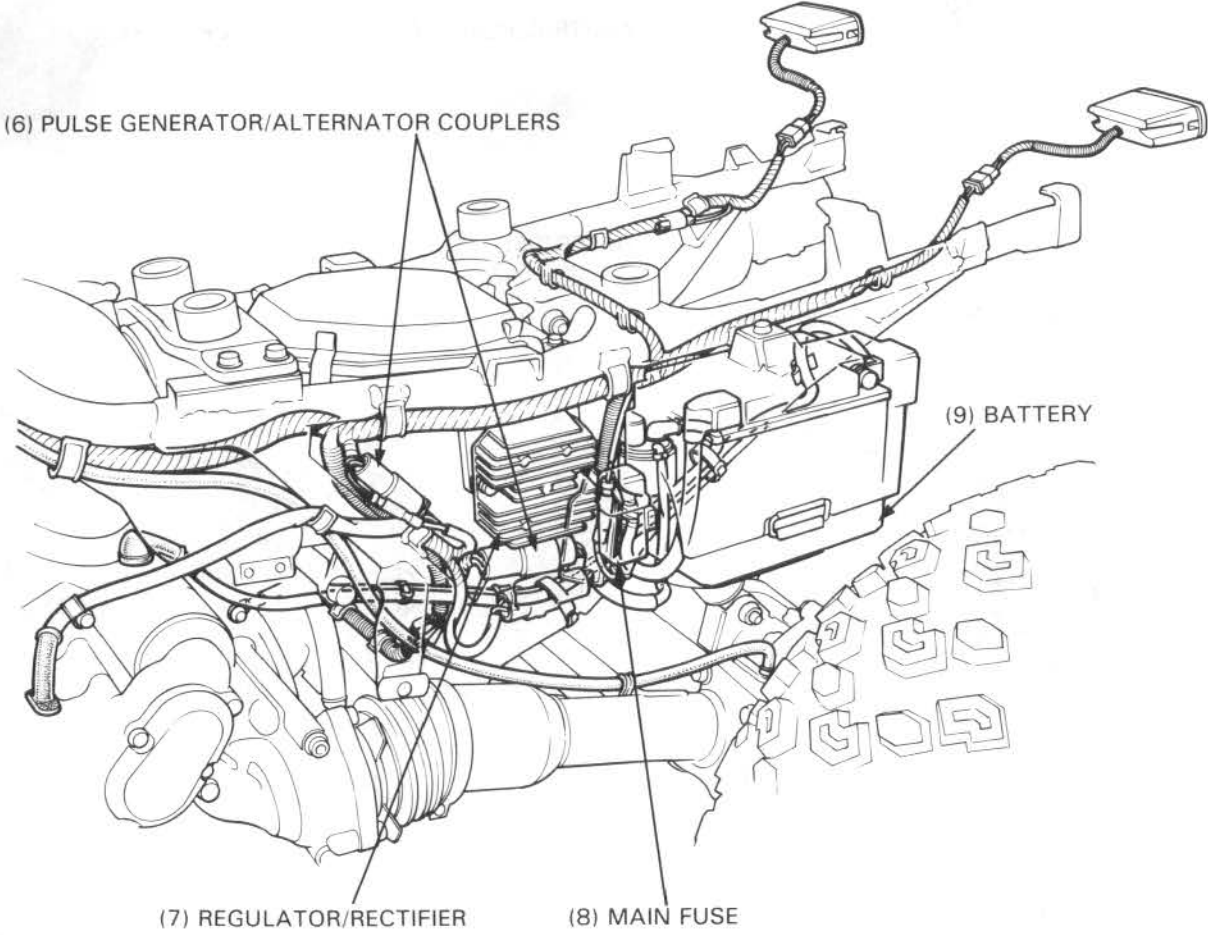
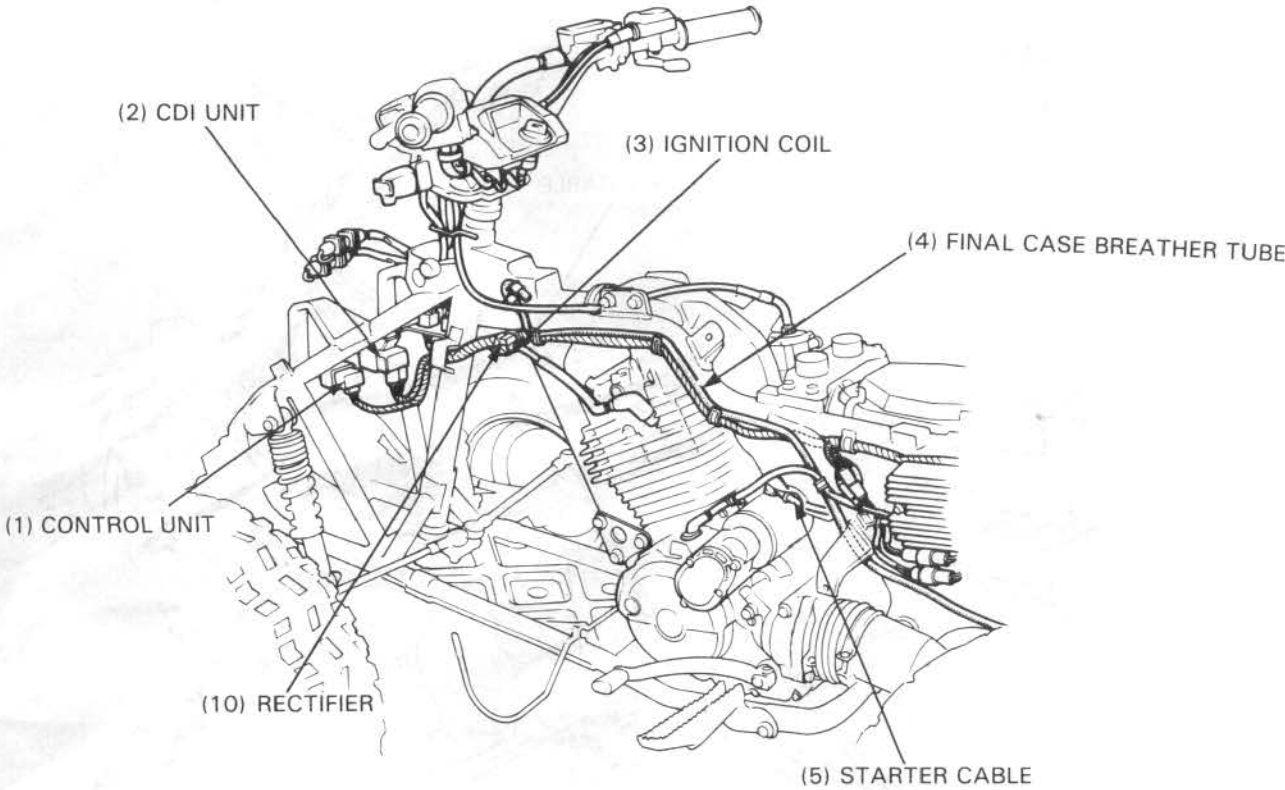
(8) D.C. RECEPTACLE FUSE AND SUB FUSE

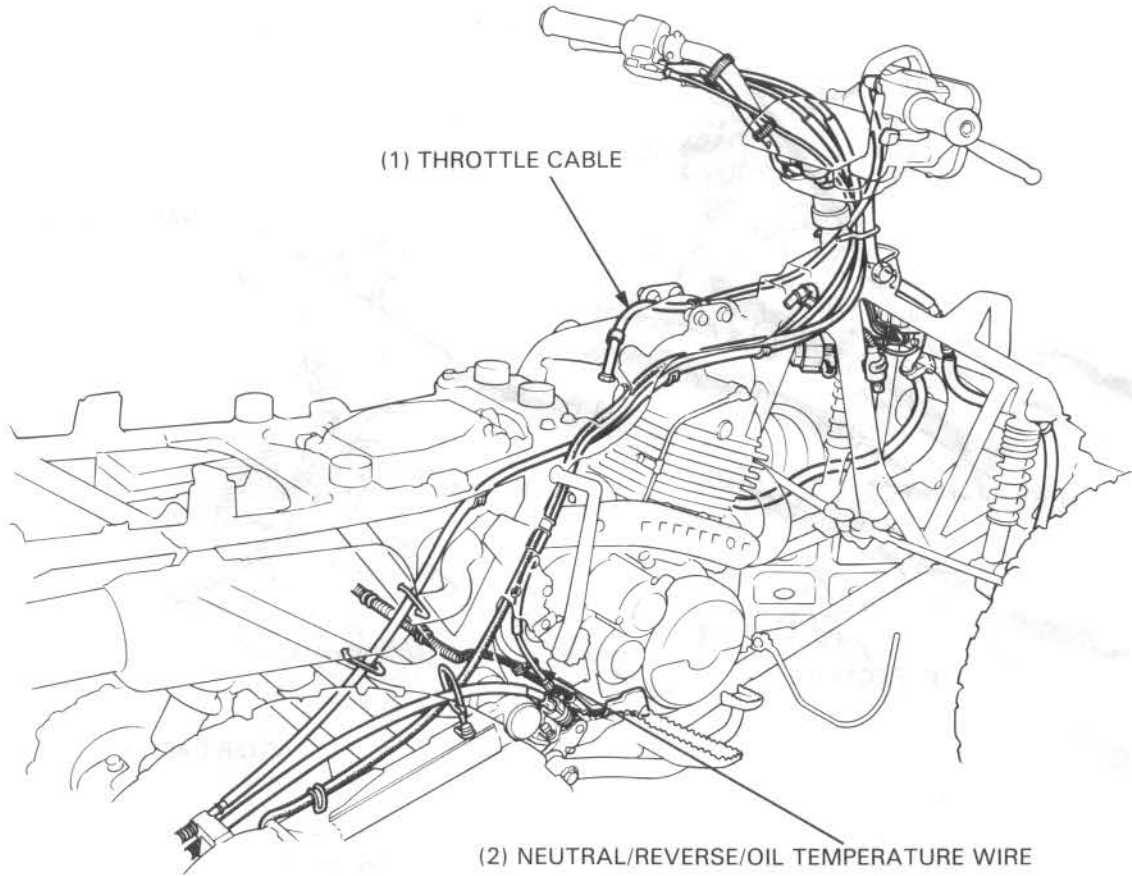
AFTER '85:



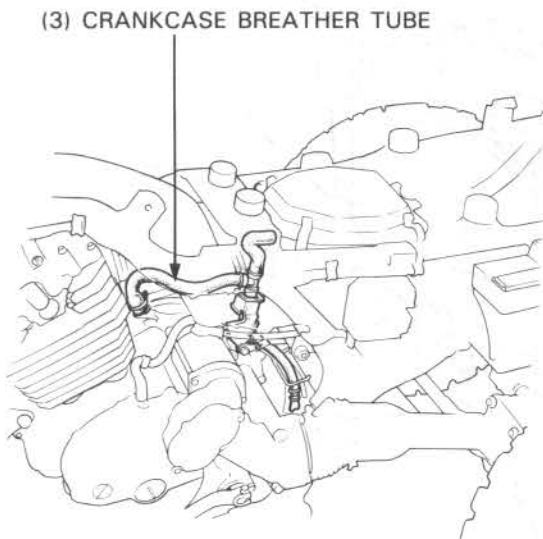
(8) D.C. RECEPTACLE FUSE AND SUB FUSE

- ① TAILLIGHT/STARTER RELAY
- ② HEADLIGHT
- ③ CONTROL UNIT
- ④ NEUTRAL/REVERSE/OIL TEMPERATURE SENSOR
- ⑤ SUB FUSE
- ⑥ IGNITION SWITCH

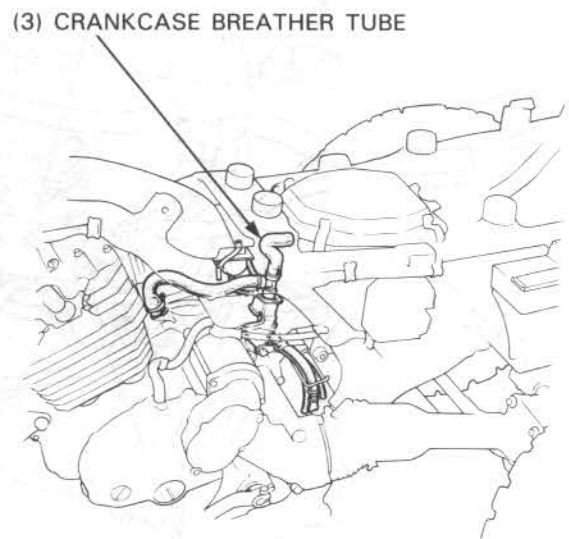




'85:



AFTER '85:

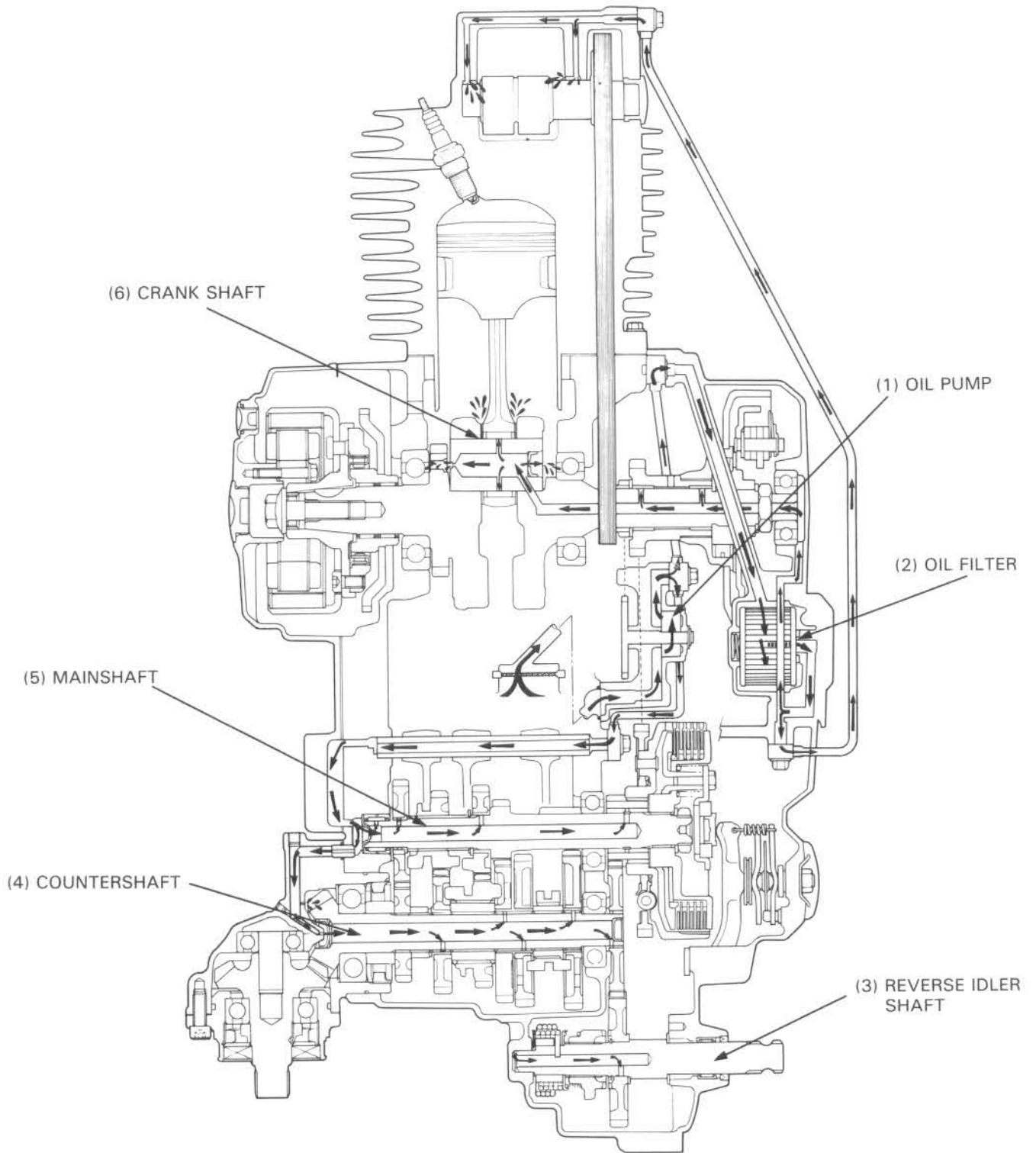


MEMO

2010

LUBRICATION

LUBRICATION DIAGRAM



2. LUBRICATION

SERVICE INFORMATION	2-1	ENGINE OIL & FILTER CHANGE	2-2
TROUBLESHOOTING	2-1	FINAL DRIVE OIL	2-3
ENGINE OIL LEVEL	2-2	LUBRICATION POINTS	2-4

SERVICE INFORMATION

GENERAL

- Section 8 shows how to service the oil pump.

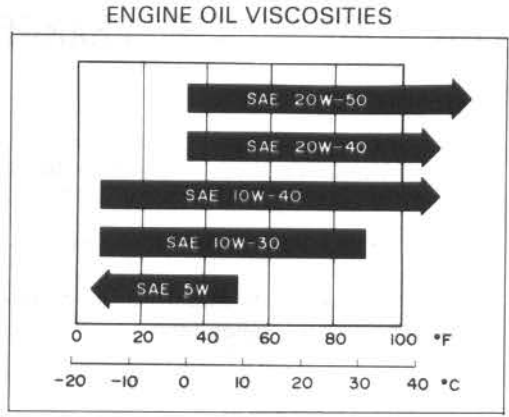
SPECIFICATIONS

Engine oil capacity 2.5 lit (2.6 US qt, 2.2 Imp qt) after disassembly
2.1 lit (2.2 US qt, 1.8 Imp qt) at draining

Engine oil recommendation Use Honda 4-stroke oil or equivalent.
API Service Classification: SE or SF
Viscosity: SAE 10W-40

Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.

Final drive oil capacity 90 cc (3.0 oz)
Final drive oil recommendation Hypoid gear oil SAE #80



TORQUE VALUES

Engine oil drain bolt 15-25 N·m (1.5-2.5 kg-m, 11-18 ft-lb)
Final drive oil filler cap 10-14 N·m (1.0-1.4 kg-m, 7-10 ft-lb)

TROUBLESHOOTING

Oil level too low — high oil consumption

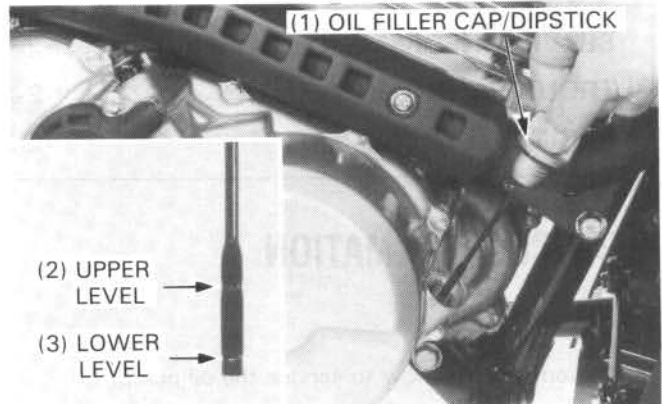
- Normal oil consumption
- External oil leaks
- Worn piston rings
- Oil not changed often enough
- Faulty head gasket

Oil contamination

- Oil or filter not changed often enough.
- Head gasket faulty.
- Worn piston rings.

ENGINE OIL LEVEL

Place the Four Trax on level ground.
Check the oil level with the oil filler cap/dipstick.
Do not screw it in when making this check.
If the oil level is below or near the lower level line on the dipstick, add the recommended oil (page 2-1) up to the upper level line.



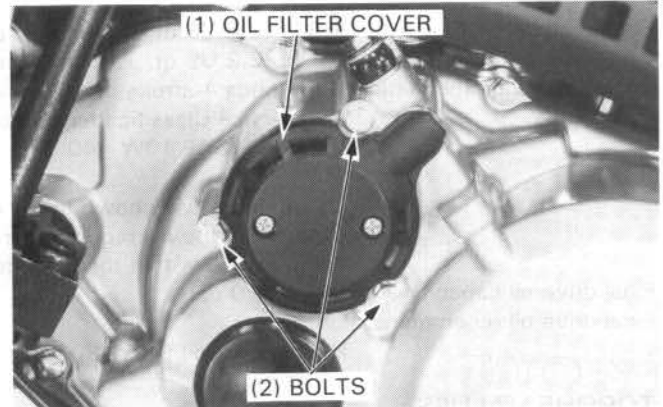
ENGINE OIL & FILTER CHANGE

NOTE

- Change engine oil with the engine warm and the Four Trax on level ground to assure complete draining.

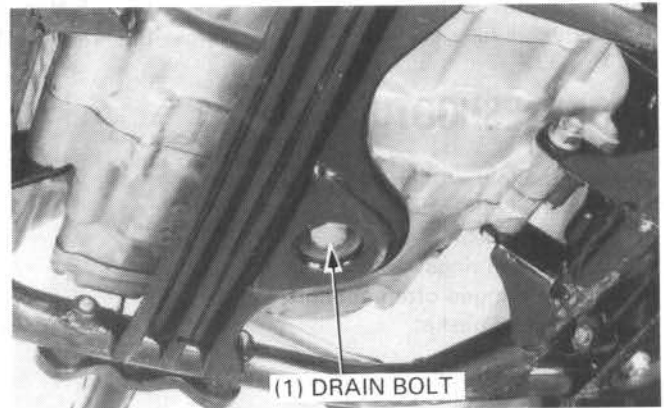
Remove the oil filler cap and drain bolt.

Remove the three bolts attaching the oil filter cover, oil filter and spring. Discard the oil filter.



Check that the sealing washer on the drain bolt is in good condition and install the drain bolt.

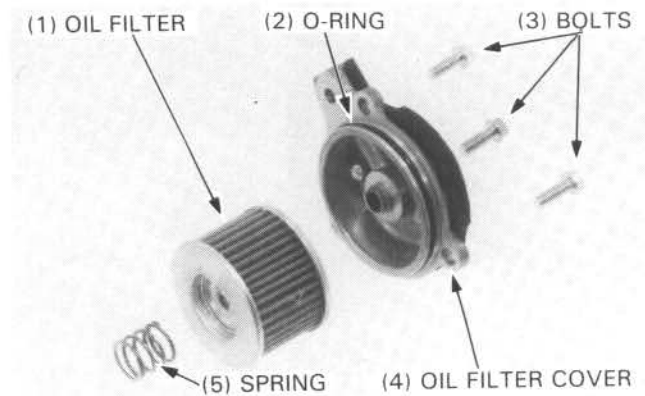
TORQUE: 15–25 N·m (1.5–2.5 kg·m, 11–18 ft·lb)



Make sure that the oil filter cover O-ring is in good condition. Install the oil filter spring, filter and cover using the three bolts.

Fill the crankcase with 2.1 liters (2.2 US qt, 1.8 Imp qt) of the recommended oil (page 2-1).
Install the oil filler cap/dipstick.
Start the engine and let it idle for 2 or 3 minutes.

Stop the engine and check that the oil level is at the upper level line on the dipstick. Make sure there are no oil leaks.



FINAL DRIVE OIL

CHECK

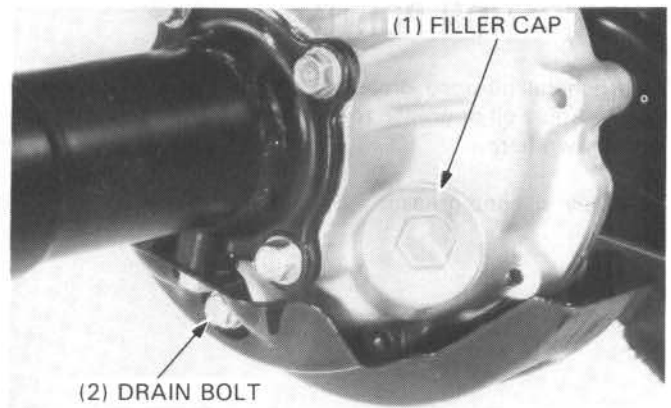
Remove the oil filler cap.

Level the rear wheels with the front wheels by placing a support block under the engine. (The front and rear axles should be in the same plane).

Check that the oil level reaches the lower edge of the oil filler cap hole.

If the level is low, pour fresh oil through the oil filler hole until it reaches the lower edge.

Check for leaks.



CHANGE

Remove the oil filler cap and the drain bolt to drain all oil from the final gear case.

Install the drain bolt securely.

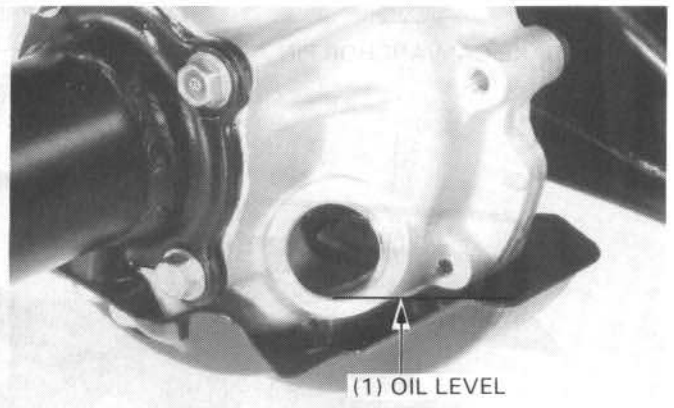
Fill the gear case with the recommended oil up to the correct level.

OIL CAPACITY: 90 cc (3.0 oz)

RECOMMENDED OIL: Hypoid gear oil SAE #80

Install the oil filler cap.

TORQUE: 10–14 N·m (1.0–1.4 kg·m, 7–10 ft·lb)

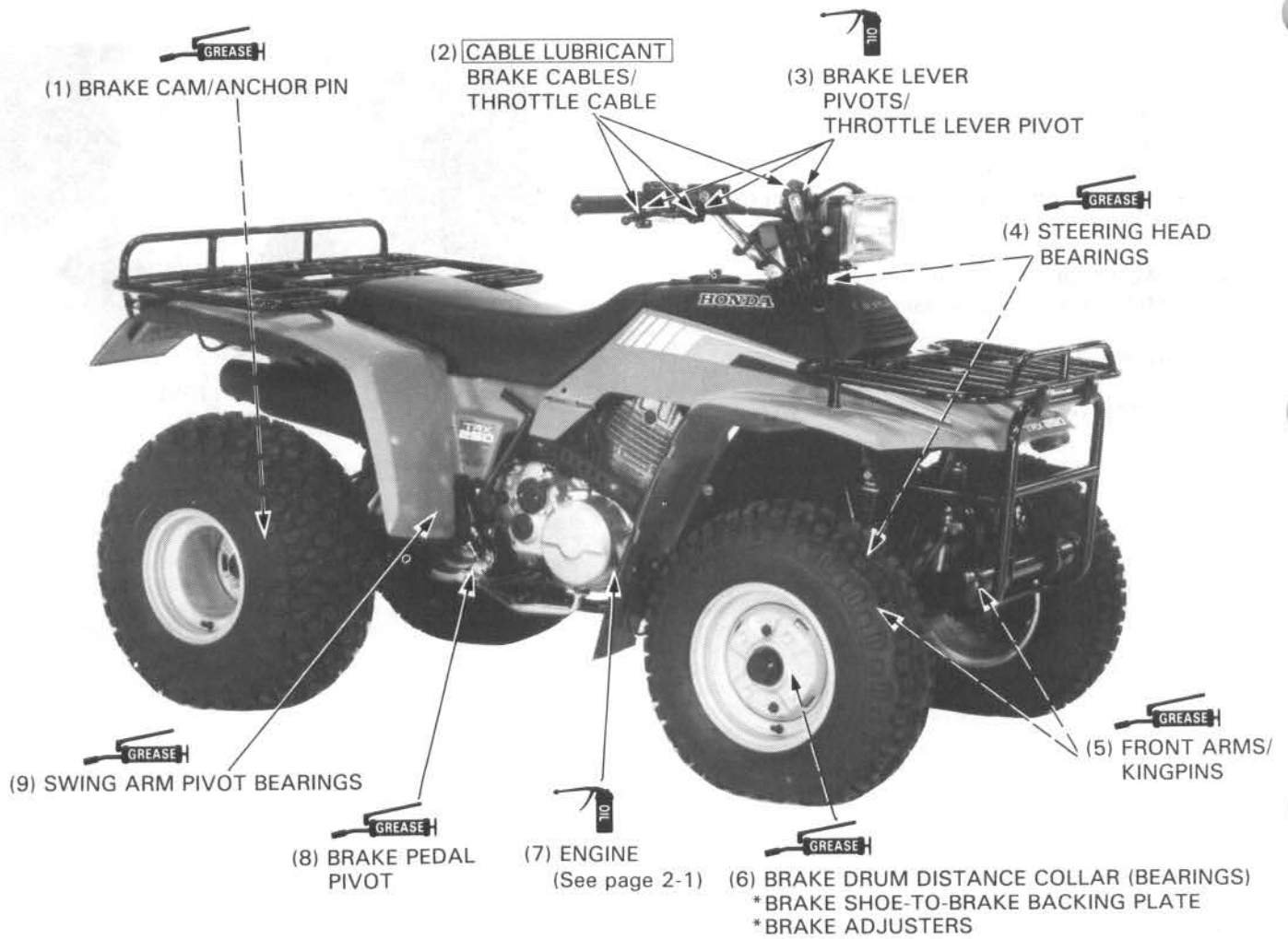


LUBRICATION

LUBRICATION POINTS

Use general purpose grease when no other specification is given. Apply oil or grease to any 2 sliding surfaces and cables not shown here.

* Apply silicone grease.



3. MAINTENANCE

SERVICE INFORMATION	3-1	BRAKE SHOES	3-8
MAINTENANCE SCHEDULE	3-2	BRAKE SYSTEM	3-8
AIR CLEANER ELEMENT	3-4	CLUTCH	3-10
SPARK PLUG	3-4	SUSPENSION	3-10
BREATHER TUBE	3-5	SPARK ARRESTER CLEANING	3-11
VALVE CLEARANCE	3-5	REVERSE LOCK MECHANISM	3-11
CARBURETOR IDLE SPEED	3-6	NUTS, BOLTS, FASTENERS	3-11
FUEL LINE	3-6	LIGHTING EQUIPMENT	3-12
FUEL FILTER	3-6	TIRES	3-12
CYLINDER COMPRESSION	3-7	STEERING HEAD BEARING	3-12
THROTTLE OPERATION	3-7	STEERING SYSTEM	3-13
BRAKE FLUID	3-7		

SERVICE INFORMATION

SPECIFICATIONS

Spark plug gap:		0.6–0.7 mm (0.024–0.028 in)
Recommended spark plugs:		DR8ES-L (NGK) X24ESR-U (ND)
Valve clearance:	Intake:	0.08 mm (0.003 in)
	Exhaust:	0.08 mm (0.003 in)
Idle speed:		1,400 ± 100 rpm
Cylinder compression		12.5 ± 1.0 kg/cm ² (178 ± 14 ps in)
Throttle lever free play:		3–8 mm (1/8–5/16 in)
Front brake lever free play:		25–30 mm (1–1-1/4 in)
Rear (parking) brake lever free play:		15–20 mm (5/8–3/4 in)
Rear brake pedal free play:		15–20 mm (5/8–3/4 in)
Reverse selector lever free play:		2–4 mm (1/16–1/8 in)
Front tire size:		21 x 7.00–10
Rear tire size:		25 x 12.00–9
Recommended tire pressure:	'85 Front:	2.9 psi (20 kPa, 0.20 kg/cm ²)
	Rear:	2.2 psi (15 kPa, 0.15 kg/cm ²)
	AFTER '85 Front:	3.0 psi (20 kPa, 0.2 kg/cm ²)
	Rear:	2.2 psi (15 kPa, 0.15 kg/cm ²)
Standard tire circumference:	'85 Front:	1,745 mm (68.7 in)
	Rear:	1,940 mm (76.4 in)
	AFTER '85 Front:	1,681 mm (66.2 in)
	Rear:	1,885 mm (74.2 in)
Front tire toe-in:		0 ± 7.5 mm (0 ± 0.30 in)
camber:		1°
caster:		8°

TORQUE VALUE

Clutch adjusting screw lock nut	19–25 N·m (1.9–2.5 kg-m, 14–18 ft-lb)
---------------------------------	---------------------------------------

TOOL

Special

Camber/caster gauge attachment	07910—MJ30100, Not available in U.S.A.
--------------------------------	--

Common

Valve adjusting wrench, 10 x 12 mm	07708—0030200 or equivalent available in U.S.A.
Valve adjusting wrench B	07708—0030400 or valve adjusting wrench 089201—200—000

MAINTENANCE

MAINTENANCE SCHEDULE

The maintenance intervals shown in the following schedule are based upon average riding conditions. Four Traxx subjected to severe use, or ridden in unusually wet or dusty areas, require more frequent servicing. Items marked * should be serviced by an authorized Honda dealer, unless the owner has the proper tools and is mechanically proficient. Other maintenance items are simple to perform and may be serviced by the owner.

Perform the Pre-ride Inspection in the Owner's Manual at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate or Replace, if necessary C: Clean R: Replace A: Adjust		INITIAL SERVICE PERIOD (First week of operation)	REGULAR SERVICE PERIOD (Every 30 operating days)	Refer to page	
	ENGINE OIL	NOTE (1), (2)	R	R	2-2
*	ENGINE OIL FILTER		R	R	2-2
	AIR CLEANER ELEMENT	NOTE (2)		I	3-4
	SPARK PLUG			I	3-4
	BREATHER TUBE			I	3-5
*	VALVE CLEARANCE		I	I	3-5
*	CARBURETOR		I	I	3-6
	FUEL LINE		I : (EVERY YEAR)		3-6
*	FUEL FILTER		C: (EVERY YEAR)		3-6
	THROTTLE OPERATION		I	I	3-7
	FINAL DRIVE OIL		I : (EVERY YEAR) R: (EVERY 2 YEARS)		2-3
	BRAKE FLUID (FRONT)		I	I *R: (EVERY YEAR)	3-7
*	BRAKE SHOES		I : (EVERY YEAR)		3-8
	BRAKE SYSTEM		I	I	3-8
*	CLUTCH		A	A	3-10
*	SUSPENSION			I	3-10
*	SPARK ARRESTER			C	3-11
*	REVERSE LOCK MECHANISM		I	I	3-11
	NUTS, BOLTS, FASTENERS		I	I	3-11
	LIGHTING EQUIPMENT		I	I	3-12
	TIRES		I	I	3-12
*	STEERING HEAD BEARINGS		A: (EVERY YEAR)		3-12
*	STEERING SYSTEM		I : (EVERY YEAR)		3-13

NOTE: (1) Replace every 30 operating days or every 3 months, whichever comes first.
(2) Service more frequently when riding in dusty areas.

AFTER '85

The maintenance intervals shown in the following schedule are based upon average riding conditions. Four Traxs subjected to severe use, or ridden in unusually wet or dusty areas, require more frequent servicing. Items marked * should be serviced by an authorized Honda dealer, unless the owner has the proper tools and is mechanically proficient. Other maintenance items are simple to perform and may be serviced by the owner. ** In the interest of safety, we recommend these items be serviced only by an authorized Honda dealer.

I: Inspect and Clean, Adjust, Lubricate or Replace, if necessary C: Clean R: Replace A: Adjust L: Lubricate		INITIAL SERVICE PERIOD (First week of operation)	REGULAR SERVICE PERIOD (Every 30 operating days)	Refer to page
	ENGINE OIL	R	R	2-2
	ENGINE OIL FILTER	R	R	2-2
	AIR CLEANER	NOTE (1)	I	3-4
	SPARK PLUG		I	3-4
	AIR CLEANER CASE BREATHER	NOTE (2)	I	3-5
*	VALVE CLEARANCE	I	I	3-5
*	CARBURETOR IDLE SPEED	I	I	3-6
*	FUEL LINE	I : (EVERY YEAR)		3-6
*	FUEL STRAINER	C: (EVERY YEAR)		3-6
*	THROTTLE OPERATION	I	I	3-7
*	CARBURETOR CHOKE		I	4-5
	FINAL DRIVE OIL	I : (EVERY YEAR) R: (EVERY 2 YEARS)		2-3
	BRAKE FLUID (FRONT)		I *R: (EVERY 2 YEARS)	3-7
*	BRAKE SHOES	NOTE (2)	I : (EVERY YEAR)	3-8
	BRAKE SYSTEM	I	I	3-8
*	CLUTCH SYSTEM	I	I	3-10
*	SUSPENSION		I	3-10
*	SPARK ARRESTER	NOTE (3)	C	3-11
*	REVERSE LOCK SYSTEM	I	I	3-11
*	NUTS, BOLTS, FASTENERS	I	I	3-11
**	WHEEL	I	I	3-12
**	STEERING HEAD BEARINGS	I : (EVERY YEAR)		3-12
**	STEERING SYSTEM	I : (EVERY YEAR)		3-13

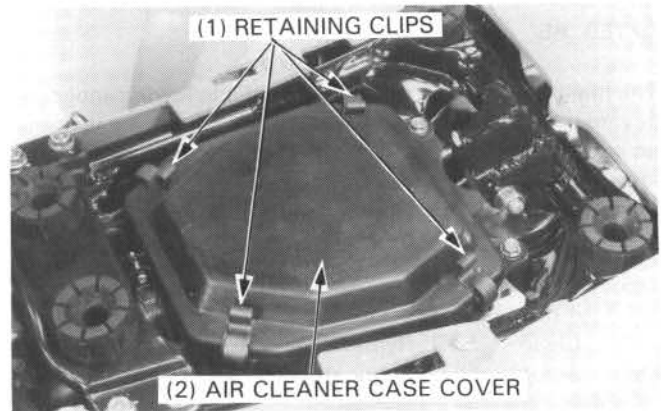
NOTE: (1) Service more frequently when riding in dusty areas, sand or snow.
 (2) Service more frequently after riding in very wet or muddy conditions.
 (3) USA only.

MAINTENANCE

AIR CLEANER ELEMENT

Remove the seat by pulling the seat latch lever.

Release the retaining clips holding the air cleaner case cover, and remove the air cleaner case cover.



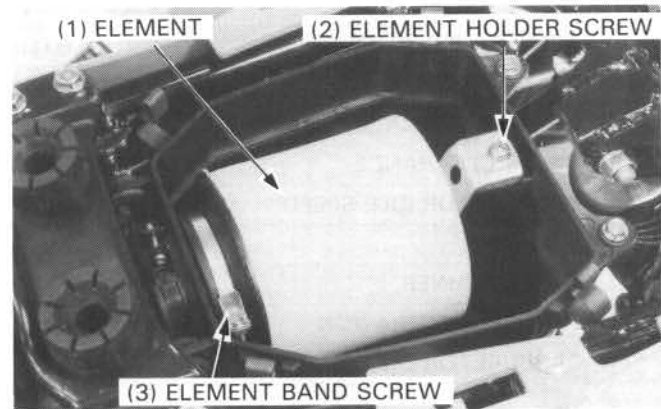
Loosen the air cleaner element band screw. Remove the element holder attaching screw and remove the air cleaner element assembly from the case.

Remove the element holder by turning it counterclockwise. Remove the element band and remove the element from the element core.

Wash the element in non-flammable or high flash point solvent, squeeze out the solvent thoroughly, and allow to dry.

Soak the element in gear oil (SAE 80-90) and squeeze out excess.

Place the element onto the element core and replace the element band and holder.



Install the element in the air cleaner case. Install the air cleaner case cover and clips. Install the seat.

SPARK PLUG

Disconnect the spark plug cap and remove the spark plug.

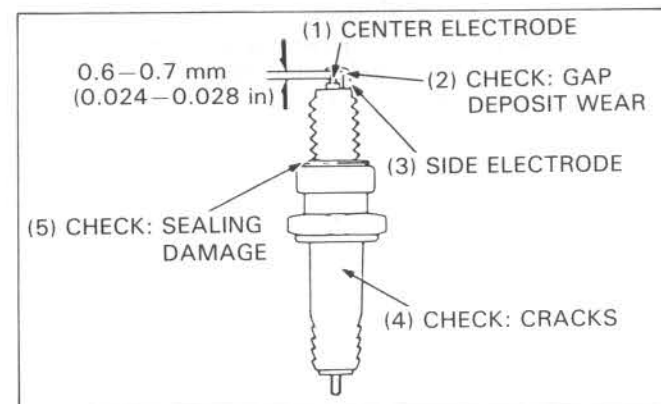
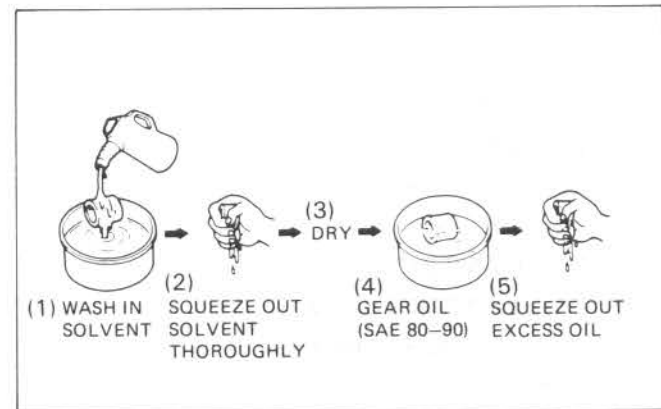
Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should have a constant thickness. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.

Measure the gap with a wire-type feeler gauge and adjust if necessary by carefully bending the side electrode.

SPARK PLUG GAP: 0.6–0.7 mm (0.024–0.028 in)
RECOMMENDED SPARK PLUG: DR8ES-L (NGK)
X24ESR-U (ND)

Check the sealing washer and replace with a new one if damaged.

With the sealing washer attached, thread the spark plug in by hand to prevent cross-threading. Tighten the spark plug another 1/2 turn with a spark plug wrench to compress the sealing washer.





Download the full PDF manual instantly.

Our customer service e-mail:

aservicemanualpdf@yahoo.com