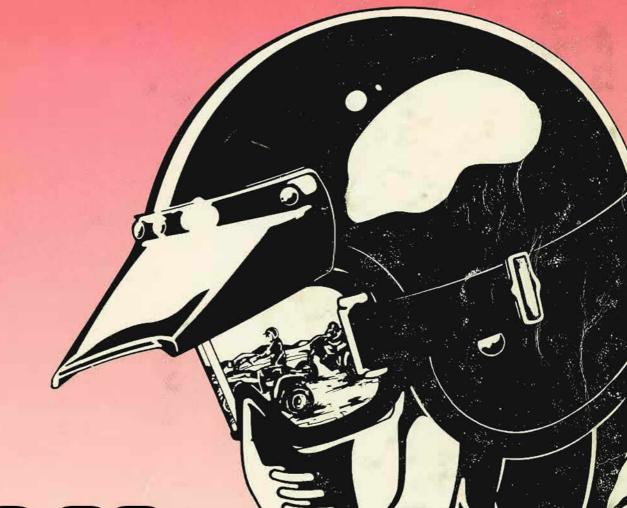
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SERVICE MANUAL



86-88
TRX 2005X
FOURTRAX

This is the cut pages sample. Download all 211 page(s) at: Manual Place.com

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.

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1. GENERAL INFORMATION

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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.

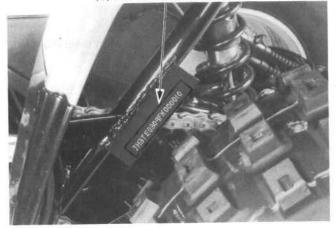
SERVICE RULES

- 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



(1) FRAME SERIAL NUMBER

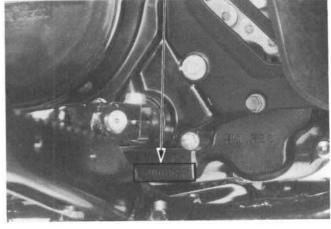


The frame serial number is stamped on the frame left side under the rear fender.



The carburetor identification number is stamped on the carburetor body right side.

(2) ENGINE SERIAL NUMBER



The engine serial number is stamped on the crankcase lower left side.

SPECIFICATIONS

	ITEM		SPECIFICATIONS
DIMENSIONS	Overall length Overall width Overall height Wheel base Seat height Foot peg height Ground clearance Dry weight		1,660 mm (65.4 in) 1,000 mm (39.4 in) 1,015 mm (40.0 in) 1,064 mm (41.9 in) 740 mm (29.1 in) 275 mm (10.8 in) 120 mm (4.7 in) 160 kg (353 lb)
FRAME	Type Front suspension, travel Rear suspension, travel Rim size Front tire size, pressure Rear tire size, pressure Front brake, lining swept Rear brake, lining swept Fuel tank capacity Fuel reserve capacity Toe-in Caster angle Camber angle Trail length Tread	Front Rear t area	Semi-double cradle Double wish-bone, 80 mm (3.1 in) Swing arm 100 mm (3.9 in) 5.5 x 8 DC 8.25 x 8 DC 20 x 7.00 – 8, 2.8 psi (21 kPa, 0.21 kg/cm²) 22 x 11.00 – 8, 2.4 psi (17 kPa, 0.17 kg/cm²) Hydraulic operated leading trailing shoe, 50.4 cm² (7.8 sq in) x 2 Cable operated leading trailing shoe, 77.5 cm² (12.0 sq in) x 2 8.5 liters (2.2 US gal, 1.9 Imp gal) 2.0 liters (0.5 US gal, 0.4 Imp gal) 10 mm (0.4 in) 4°30′ 1° 18 mm (0.7 in) 750 mm (29.5 in) 750 mm (29.5 in)
ENGINE	Exhaust valve Valve clearance (cold)	Opens Closes Opens Closes Intake Exhaust	Air cooled 4-stroke Single cylinder inclined 25° $65.0 \times 60.0 \text{ mm} (2.55 \times 2.36 \text{ in})$ $199.1 \text{ cm}^3 (12.15 \text{ cu in})$ $9:1$ Single overhead camshaft, chain driven $14.5 \text{ HP/7,000 rpm (SAE)}$ $1.56 \text{ kg-m} (11.28 \text{ ft-lb})/6,000 \text{ rpm (SAE)}$ $1.9 \text{ liters } (2.0 \text{ US qt, } 1.7 \text{ Imp qt) after disassembly}$ $1.6 \text{ liters } (1.7 \text{ US qt, } 1.4 \text{ Imp qt) after draining}$ Forced pressure and wet sump Double urethane $1,300 \pm 100 \text{ kPa } (13.0 \pm 1.0 \text{ kg/cm}^2, 184 \pm 14 \text{ ps})$ 8° BTDC 35° ABDC 40° BBDC 5° ATDC $0.08 \text{ mm } (0.003 \text{ in})$ $0.08 \text{ mm } (0.003 \text{ in})$ $1,400 \pm 100 \text{ rpm}$
CARBURETOR	Type Identification number Venturi dia. Air screw initial opening Jet needle Float level		Dual valve 63A 22 mm (0.87 in) 1-1/2 turns out 4 groove 14 ± 1 mm (0.55 ± 0.04 in)

	ITEM		SPECIFICATIONS
DRIVE TRAIN	Clutch Transmission Primary reduction Gear ratios (Overall: 1) Final reduction Gearshift pattern	I II III IV V Reverse	Wet multi-plate, semi-automatic 5-speed constant mesh with reverse 3.087 (71/23) 3.546 (39/11) 2.267 (34/15) 1.632 (31/19) 1.273 (28/22) 1.042 (25/24) 5.850 (33/11 x 39/20) 3.500 (42/12) Left foot operated return system, Forward: N-I-II-III-IV-V Reverse: N-R
ELECTRICAL	Ignition Ignition timing Alternator capacity Battery Spark plug Spark plug gap Fuse Headlight Taillight Neutral indicator Reverse indicator	Initial Full advance	CDI 10° BTDC at idle 28° BTDC at 3,700 rpm 130 W/5,000 rpm 12V—10AH DR8ES-L (NGK) X24ESR-U (ND) 0.6—0.7 mm (0.024—0.028 in) 15A 12V 45W/45W 12V 5W 12V 3W 12V 3W

TORQUE VALUES

ENGINE

Item	Qʻty	Thread dia. (mm)	Torque N•m (kg-m, ft-lb)	Remarks
Cylinder head bolt	4	8	28-30 (2.8-3.0, 20-22)	Apply oil to the
Spark plug	1	12	12 - 19 (1.2 - 1.9, 9 - 14)	threads.
Camshaft bearing holder	2	6	10-14 (1.0-1.4, 7-10)	Apply oil to the
Valve adjuster lock bolt	2	6	10-14 (1.0-1.4, 7-10)	threads.
Cam chain tensioner slipper	1	6	10-14 (1.0-1.4, 7-10)	Apply oil to the
Oil drain bolt	1	12	35-40 (3.5-4.0, 25-29)	threads.
Clutch adjusting screw lock nut	1	8	19-25 (1.9-2.5, 14-18)	The state of the s
Pulse generator	2	12 8 5	8-12 (0.8-1.2, 6-9)	
Centrifugal clutch lock nut	1	18	86-94 (8.6-9.4, 62-68)	
Manual clutch lock nut	1	16	76-84 (7.6-8.4, 55-61)	Apply oil to the
Flywheel bolt	1	8	30-34 (3.0-3.4, 22-25)	threads.
Starter clutch	3		26-30 (2.6-3.0, 19-22)	Apply thread lock
Shift drum bolt	1	8	10-14 (1.0-1.4, 7-10)	agent to the threads.
Shift drum stoper	1	6	10-14 (1.0-1.4, 7-10)	Apply oil to the threads.

FRAME

Item	Q'ty	Thread dia. (mm)	Torque N•m (kg-m, ft-lb)	Remarks
Engine mount bolt	5	10	60-80 (6.0-8.0, 43-58)	
Engine hanger plate	2	8	30-40 (3.0-4.0, 22-29)	
Gearshift pedal	1	6	10-12 (1.0-1.2, 7-9)	
Foot peg	8	8	24-30 (2.4-3.0, 17-22)	
Front wheel nut	8	10	60-70 (6.0-7.0, 43-51)	
Tie-rod ball joint	4	10	35-43 (3.5-4.3, 25-31)	
Tie-rod lock nut	4	10	35-43 (3.5-4.3, 25-31)	
Kingpin bolt	2	12	50-70 (5.0-7.0, 36-51)	
Front axle nut	2	14	60-80 (6.0-8.0, 43-58)	
Front shock absorber	4	10	40-50 (4.0-5.0, 29-36)	
Front arm 8 mm	8	8	30-36 (3.0-3.6, 22-26)	
10 mm	4	10	40-50 (4.0-5.0, 29-36)	
Steering bearing outer race			8 8	
lock nut	1	42	40-60 (4.0-6.0, 29-43)	
Handllebar lower holder	4	10	40-50 (4.0-5.0, 29-36)	
Steering shaft nut	1	12	50-70 (5.0-7.0, 36-51)	
Brake hose oil bolt	5	10	25-35 (2.5-3.5, 18-25)	
Rear axle inner lock nut	1	32	35-45 (3.5-4.5, 25-33)	
Rear axle outer lock nut	1	32	120-140 (12.0-14.0, 87-101)	
Rear axle nut	2	18	80-120 (8.0-12.0, 58-87)	
Rear wheel n128		10	60-70 (6.0-7.0, 43-51)	
Rear shock absorber	2	10	40-50 (4.0-5.0, 29-36)	
Final driven sprocket nut	4	8	30-36 (3.0-3.6, 22-26)	
Swing arm pivot bolt	1	14	80-100 (8.0-10.0, 58-72)	
Axle housing lock bolt	4	12	80-100 (8.0-10.0, 58-72)	
Mudguard	6	6	10-14 (1.0-1.4, 7-10)	
Inner fender	6	6	10-14 (1.0-1.4, 7-10)	
Air scoop grille	2	6	10-14 (1.0-1.4, 7-10)	
Fuel valve	1	18	25-30 (2.5-3.0, 18-22)	
Headlight bracket	2	8	20-25 (2.0-2.5, 14-18)	
Fuel valve knob	1	5	4.5-6 (0.45-0.6, 3.3-4.3)	

GENERAL INFORMATION

Torque specifications listed on previous page are for important fasteners. Others should be tightened to standard torque values listed blow.

STANDARD TORQUE VALUES

Item	Torque Values N•m (kg-m, ft-lb)	Item	Torque Values N•m (kg-m, ft-lb)
5 mm bolt and nut	4-6 (0.4-0.6, 3-4)	5 mm screw	3-5 (0.3-0.5, 2-4)
6 mm bolt and nut	8-12 (0.8-1.2, 6-9)	6 mm screw	7-11 (0.7-1.1, 5-8)
8 mm bolt and nut	18-25 (1.8-2.5, 13-18)	6 mm flange bolt and nut	10-14 (1.0-1.4, 7-10)
10 mm bolt and nut	30-40 (3.0-4.0, 22-29)	8 mm flange bolt and nut	24-30 (2.4-3.0, 17-22)
12 mm bolt and nut	50-60 (5.0-6.0, 36-43)	10 mm flange bolt and nut	35-45 (3.5-4.5, 25-33)

TOOLS

SPECIAL

DESCRIPTION	TOOL NUMBER	ALTERNATIVE TOOL	TOOL NUMBER	REF. SECT.
*Clutch holder	07GMB-HB30100			8
*Clutch puller	07GMC-HB30100			8
*Tire breaker attachment	07GMF-HB30100			11
Valve guide reamer, 5.5 mm	07984-2000000	Valve guide reamer, 5.5 mm	07984-0890000	6
Clutch center holder	07923-9580000	garde fourner, o.o min	07304-0030000	8
Bearing remover set, 15 mm	07936-KC10000	Not available in U.S.A.		10
-Bearing remover, 15 mm	07936-KC10500	Tot didnidate in O.O.A.		10
-Bearing remover weight	07741-0010201	Bearing remover weight	07936-3710200	10
Universal bearing puller	07631-0010000	TEquivalent commercially	07330-3710200	10
Crankshaft assembly collar	07965-VM00100	available in U.S.A.		10
Shaft puller	07965-VM00200	a tandbio in o.o.A.		10
Threaded adapter	07GMF-HB50100			10
Shock absorber compressor	3,1200,00			10
adapter	07967-VM50100			11
Shock absorber collar	07967-GA70102	Shock absorber collar	07967-GA70001	11
Lock nut wrench adapter	07GMA-HA70200	orioon apportuni contai	07307-GA70001	11
Snap ring pliers	07914-3230001			12
Lock nut spanner, 41 mm	07916-9580200	Axle nut holder wrench	07916-958020A	12
Lock nut wrench set, 41 mm	07916-9580300	Not available in U.S.A.	07310-356020A	12
-Lock nut wrench, 41 mm	07916-9580400	Axle nut torque wrench	07916-958010A	12
-Lock nut wrench handle	07916-9580500	Not available in U.S.A.	07310-356010A	12
Shock absorber compressor		Not available in O.S.A.		12
adapter	07967-KC10000	Not available in U.S.A.		13
Shock absorber compressor		ivot avaliable ili 0.5.A.		13
base	07959-MB10000			1.0
Bearing remover set, 20 mm	07936-3710001	Not available in U.S.A.		13
-Bearing remover, 20 mm	07936-3710600	Tot available iii 0.3.A.		13 13
Bearing remover handle	07936-3710100			13
Bearing remover weight	07741-0010201	Bearing remover weight	07936-3710200	13
9		boding remover weight	0/330-3/10200	13

^{*}Newly designed for this model

COMMON

DESCRIPTION	TOOL NUMBER	ALTERNATIVE TOOL	TOOL NUMBER	REF. SECT.
Float level gauge	07401-0010000		The second second second	4
Valve guide remover, 5.5 mm	07742-0010100	Valve guide remover	07942-3290100	6
Valve spring compressor	07757-0010000	Valve spring compressor	07957-3290001	6
Flywheel holder	07725-0040000	Strap wrench, commercially available in U.S.A.	07007-3230001	
Rotor puller	07733-0010000		07000 000000	9
Driver	07749-0010000	Rotor puller	07933-2000000	9
Dilvei	07749-0010000			10, 11, 12,
Attachment 12 17	07740 0040000			13
Attachment, 42 x 47 mm	07746-0010300			10
Pilot, 20 mm	07746-0040500			10, 12, 13
Attachment, 32 x 35 mm	07746-0010100			10, 12, 13
Pilot, 15 mm	07746-0040300			10, 12
Attachment, 52 x 55 mm	07746-0010400			10
Pilot, 22 mm	07746-0041000			10
Attachment, 62 x 68 mm	07746-0010500			10, 13
Pilot, 28 mm	07746-0041100			10
Attachment, 37 x 40 mm	07746-0010200			11,12
Pilot, 17 mm	07746-0040400			11,12
Tire breaker set	07772-0050001			11
-Breaker arm compressor	07772-0050101			11
-Breaker arm	07772-0050200			11

GENERAL INFORMATION

DESCRIPTION	TOOL NUMBER	ALTERNATIVE TOOL	TOOL NUMBER	REF. SECT.
Shock absorber compressor Pilot, 35 mm	07959-3290001 07746-0040800		_	11, 13 13

VALVE SEAT CUTTER

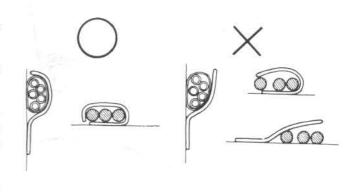
Valve seat cutters are commercially available in the U.S.A. Therefore these cutters are not required in U.S.A.:

DESCRIPTION	TOOL NUMBER	REF. SECT.
Valve seat cutter, 27.5 mm (EX 45°)	07780-0010200	6
Valve seat cutter, 33 mm (IN 45°)	07780-0010800	6
Valve seat cutter, 28 mm (EX 32°)	07780-0012100	6
Valve seat cutter, 33 mm (IN 32°)	07780-0012900	6
Valve seat cutter, 30 mm (IN/EX 60°)	07780-0014000	6
Valve seat cutter holder, 5.5 mm	07781-0010101	6

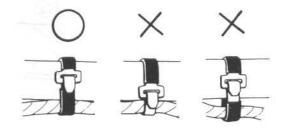
CABLE & HARNESS ROUTING

Note the following when routing cables and wire harnesses:

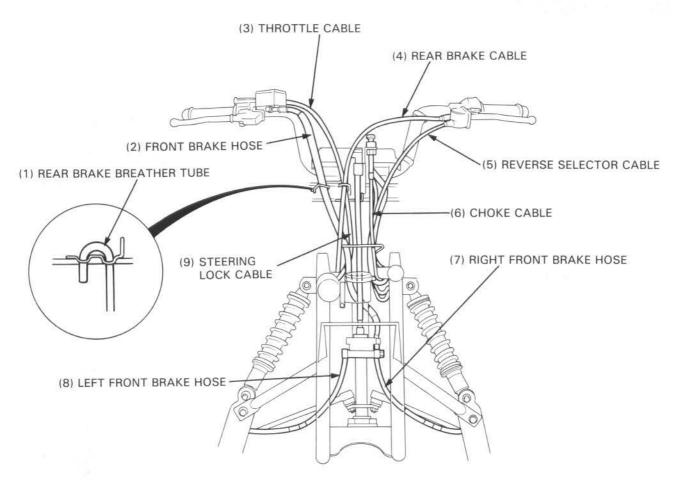
- A loose wire, harness or cable can be a safety hazard. After clamping, check each wire to be sure it is secure.
- Do not squeeze a wire against a weld or end of its clamp when a weld-on clamp is used.
- Secure wires and wire harnesses to the frame with their respective wire bands at the designated 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.

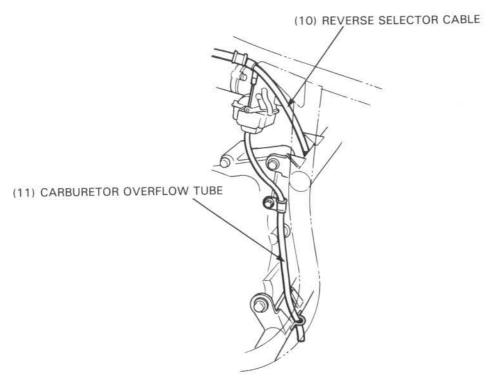


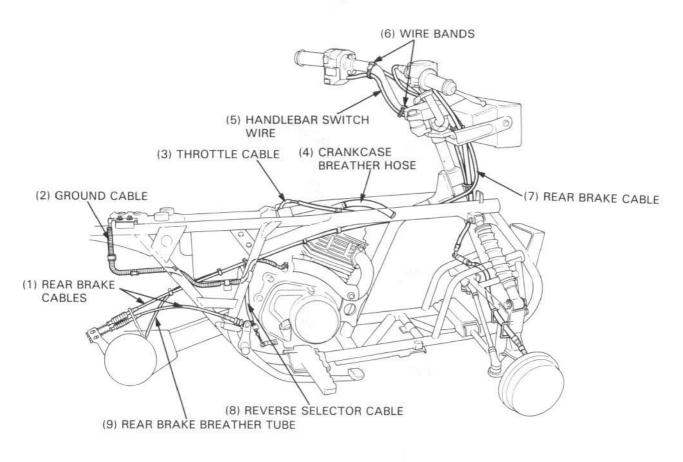


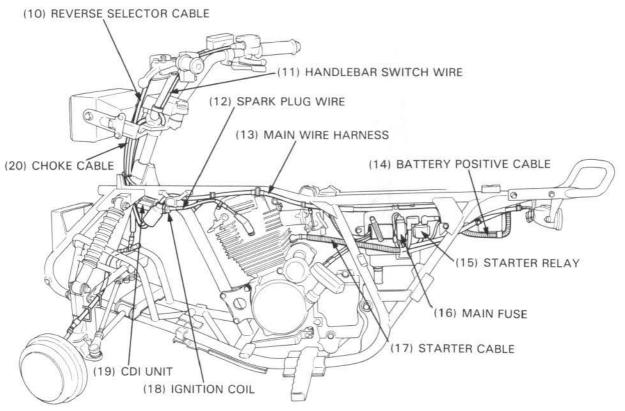


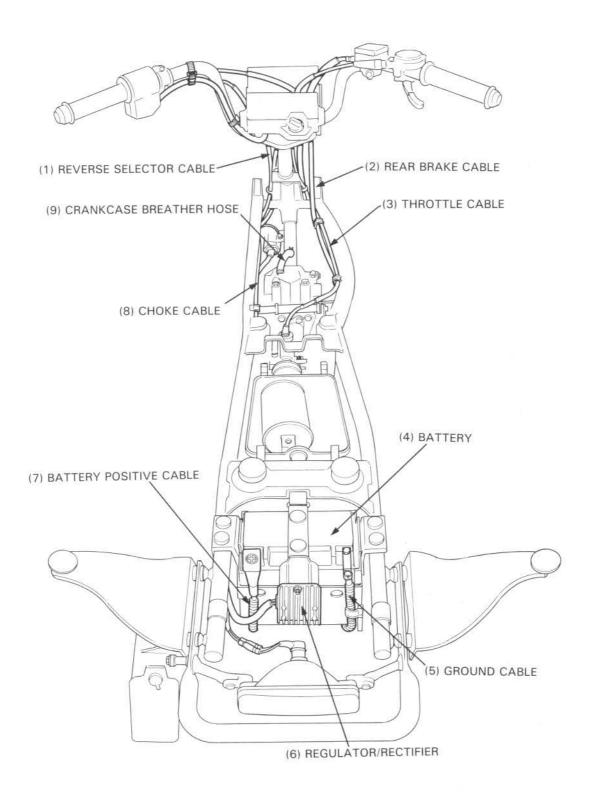
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×: INCORRECT



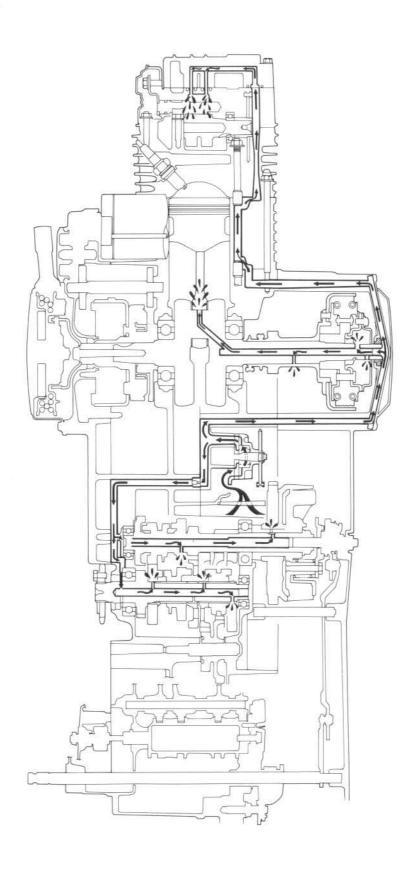








MEMO



2. LUBRICATION

ENGINE OIL VISCOSITIES

0.15 mm (0.006 in)

ENGINE OIL	2-2	LUBRICATION POINTS	2-7
TROUBLESHOOTING	2-1	OIL PUMP	2-4
SERVICE INFORMATION	2-1	OIL FILTER ROTOR AND SCREEN	2-2

SERVICE INFORMATION

SPECIFICATIONS

Engine oil capacity

1.9 lit (2.0 US qt, 1.7 Imp qt) at disassembly 1.6 lit (1.7 US qt, 1.4 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

Oil pump

riding area is within the indicated range.			20	40	40 60		80	100	°F
Dil pump		-20	-10	o	10	20	30	40	*c
ITEM	STANDARD		SERVICE LIMIT						
Rotor tip clearance	0.15 mm (0.006 in)		0.20 mm (0.008 in)						
Rotor-to-body clearance	0.15-0.21 mm (0.006-0.008 in)		0.25 mm (0.010 in)						
Pump end clearance	0.05-0.13 mm (0.002-0.005 in)			0.1	5 mn	1 (0.0	006 ir	1)	

TORQUE VALUE

Engine oil drain bolt

35-40 N·m (3.5-4.0 kg-m, 25-29 ft-lb)

TROUBLESHOOTING

Oil level too low-high oil consumption

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

Low oil pressure

- Oil level low
- Clogged oil filter screen
- Faulty oil pump
- External oil leaks
- Broken oil pump drive chain

Oil contamination

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

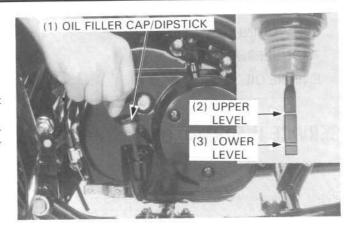
ENGINE OIL

OIL LEVEL

Place the Four Trax on level ground.

Check the oil level with the oil filler cap/dipstick, but 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.



OIL 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/dipstick and drain bolt, and drain the engine oil.

With the engine switch off, pull the recoil starter several times to completely drain any residual oil.

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

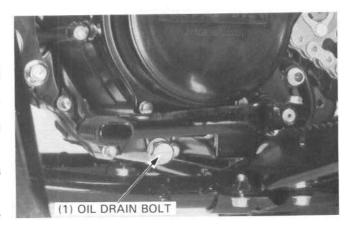
TORQUE: 35-40 N·m (3.5-4.0 kg-m, 25-29 ft-lb)

Fill the crankcase with 1.6 liters (1.7 US qt, 1.4 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.



OIL FILTER ROTOR AND SCREEN

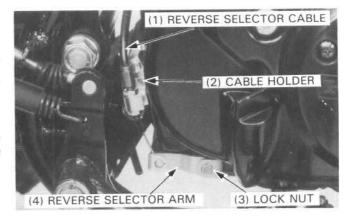
NOTE

Clean the oil filter rotor and screen before adding oil.

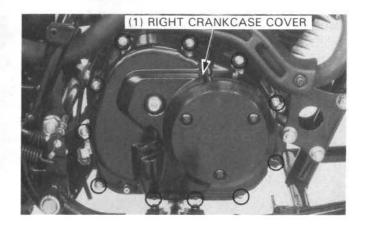
Drain the engine oil.

Remove the lock nut and reverse selector arm.

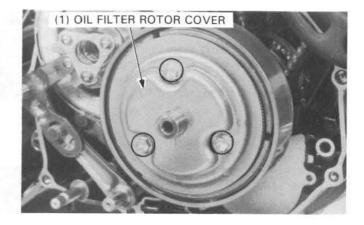
Remove the reverse selector cable adjuster lock nut from the cable casing threads, and remove the cable from the cable holder.



Remove the right crankcase cover bolts and the cover. Remove the gasket and dowel pins.



Remove the oil filter rotor cover.

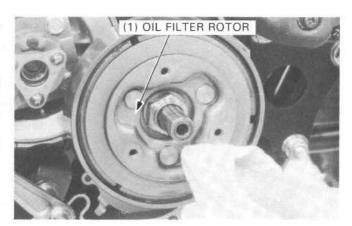


Clean the oil filter rotor cover and the inside of the oil filter rotor using a clean lint-free cloth.

CAUTION

- · Do not allow dust or dirt to enter the crankshaft oil passage.
- Do not use compressed air to clean the filter rotor.

Reinstall the oil filter rotor cover with a new gasket, aligning the bolt holes in the cover and gasket.



Remove the oil filter screen from the right crankcase. Clean the oil filter screen by washing it in clean solvent and blowing it dry with compressed air.

Reinstall the oil filter screen into the right crankcase.

