# HOBJIDES SERVICE MANUAL



86-89
TRX 250R
FOURTRAX®
250R

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## HOW TO USE THIS MANUAL

Sections 1 and 2 apply to the whole FOURTRAX, while sections 3 through 15 describe parts of the FOURTRAX, 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, general instructions, specifications, torque values, tools and trouble-shooting for the section. The subsequent pages give detailed procedures.

If you don't know the source of a problem, see section 16, TROUBLESHOOTING.

All information, illustrations, directions and specifications included in this publication are based on the latest product information available at the time of approval for printing.

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HONDA MOTOR CO., LTD. Service Publications Office

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# 1. GENERAL INFORMATION

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### **GENERAL SAFETY**

#### **W**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 that can cause loss of consciousness and may lead to death.

#### CAUTION

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still adviseable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

#### WARNING

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

#### **WARNING**

Inhaled ashbestos fibers have been found to cause respiratory disease and cancer. Never use an air hose or dry brush to clean brake or clutch assemblies. In the united states, Use an OSHA-approved vacuum cleaner or alternate method approved by OSHA designed to minimize the hazard caused by airborne asbestos fibers.

## **SERVICE RULES**

- Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that do not meet HONDA's
  design specifications may damage the Fourtrax.
- 2. Use the special tools designed for this product to avoid damage and incorrect assembly.
- 3. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
- 4. When torquing a series of bolts or nuts, begin with larger-diameter or inner bolts first, and tighten to the specified torque diagonally, in incremental steps, unless a particular sequence is specified.
- 5. Clean parts in non-flammable or high flash point solvent upon disassembly. Lubricate any sliding surfaces before re-
- 6. When installing a new oil seal, make sure that the sealing lip is lubricated with grease. If an oil seal and related parts have been washed, apply proper grease to the lip of the oil seal.
- 7. After reassembly, check all parts for proper installation and operation.
- 8. Use only metric tools when servicing this Fourtrax. Metric bolts, nuts, and screws are not interchangeable with English fasteners. The use of incorrect tools and fasteners may damage the Fourtrax.
- 9. Route all electrical wires and control cables as shown on page 1-9 through 1-14 Cable and Harness Routing.

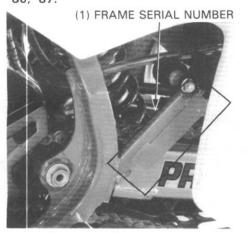
## **MODEL IDENTIFICATION**

'86 shown: '87 similar



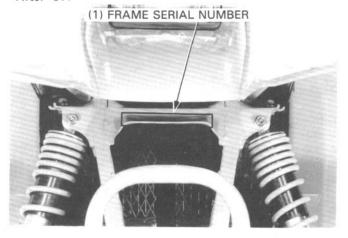


'86, '87:



After '87:

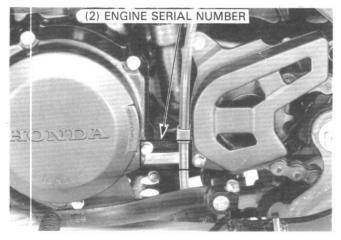
After '87:



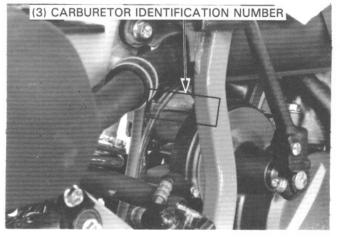
The frame serial number is stamped on the frame left side.



The frame serial number is stamped on the frame front side.



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



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

## **SPECIFICATIONS**

DIMENSIONS	
Overall width	
After '87:	
Overall height	
After '87:     Wheelbase	
Wheelbase	*
After '87:   1,265 mm (49.8 in)   775 mm (30.5 in)   786 mm (49.8 in)   786 mm (49.8 in)   775 mm (30.5 in)   775 mm (30.5 in)   786 mm (49.8 in)   775 mm (30.5 in)   775 mm (30.5 in)   786 mm (49.8 in)   775 mm (30.5 in)   775 mm (49.8 in)   775 mm (30.5 in)   775 kg (16.9 ib)   775 kg (16.9 i	*
Seat height	\$
FRAME  Foot peg height  After '87:  '86, '87:  After	\$
Frame  Frot peg height  Ground clearance Dry weight  Front  Rear  Weight distribution  Front  Rear  Front  Rear  Front  Rear  Front  Rear  Front  Rear  Tire size  Front  Rear  Tire size  Front  Rear  Fro	¥
After '87:  Ground clearance Dry weight Front '86, '87:	\$ -
Ground clearance   Dry weight   Front   '86, '87:   After '87:   101 kg (222.7 lb)	\$ -
Dry weight   Front   /86, /87:   After /87:   106 kg (233.7 lb)   101 kg (222.7 lb)   131 kg (288.8 lb)   133 kg (293.2 lb)   134 kg (288.8 lb)   134 kg	
## After '87:    Rear   Weight distribution   Front   '86, '87:	
Weight distribution	
## Weight distribution Front	7.0
FRAME  Type Front suspension, travel Rear suspension, travel Roar suspension, travel suspension Roar suspension, travel suspension Roar suspension, t	
FRAME  Type Front suspension, travel Rear suspension, travel Rim size Front Rear Tire size Front Rear Front Rear Tire size Front Rear Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle Front Camber Trail length Front Fr	
FRAME  Type Front suspension, travel Rear suspension, travel Rim size Front Rear Tire size Front Rear  Tire pressure Front Rear Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle Front Camber Trail length FRAME  Type Front suspension, travel Bouble wish-bone, 200 mm (7.9 in) Swingarm, Pro-link, 230 mm (9.1 in) 10 x 5.5 9 x 8.0 AT 21 x 7.00-10 A722 x 7.00-10 ★ ★ 4.20 x 10.00-9 ★ 4.0 psi (0.275 kg/cm², 27.5 kPa) 3.3 psi (0.225 kg/cm², 20 kPa) Single disc (twin piston), 392.9 cm² (60.9 s Single disc (twin piston), 392.9 cm² (40.3 s 10.0 ℓ (2.64 U.S. gal., 2.20 Imp. gal.) 10 mm (0.4 in) 6° 4°40′ 0° 27 mm (1.06 in) After '87: After '87: 21 mm (0.83 in)	-
Type Front suspension, travel Rear suspension, travel Rim size Rear Tire size Front Rear  Tire pressure Rear brake, lining swept area Rear brule capacity Fuel reserve capacity Toe-in Camber Trail length Front suspension, travel Front suspension, travel Rear suspension, travel Bouble wish-bone, 200 mm (7.9 in) Swingarm, Pro-link, 230 mm (9.1 in) 10 x 5.5 9 x 8.0 AT 21 x 7.00-10 AT22 x 7.00-10 ★ ★ 20 x 10.00-9 ★ 4.0 psi (0.275 kg/cm², 27.5 kPa) 2.9 psi (0.2 kg/cm², 20 kPa) 3.3 psi (0.225 kg/cm², 22.5 kPa) Single disc (twin piston), 392.9 cm² (60.9 s Single disc (twin piston), 259.8 cm² (40.3 s 10 mm (0.4 in) 6 4° 4° 40′ 0° 17 mm (1.06 in) After '87: Aft	
Front suspension, travel Rear suspension, travel Rim size Front Rear Tire size Front Rear Tire pressure Front Rear Front	
Front suspension, travel Rear suspension, travel Rim size Front Rear Tire size Front Rear Tire pressure Front Rear Front	
Rear suspension, travel Rim size	
Rim size Front Rear  Tire size Front '86, '87:	
Rear   Front   '86, '87:	
Tire size  Front '86, '87:  After '87:  Rear '86, '87:  After '87:  Rear '86, '87:  After '87:  Front brake, lining swept area  Rear brake, lining swept area  Rear brake, lining swept area  Fuel capacity  Fuel reserve capacity  Toe-in  Caster angle  '86, '87:  After '87:  After '87:  After '87:  After '87:  After '87:  Camber  Trail length  '86, '87:  After '87:  After '87:  21 x 7.00-10  AT22 x 7.00-10  A 0 psi (0.275 kg/cm², 27.5 kPa)  2.9 psi (0.2 kg/cm², 27.5 kPa)  Single disc (twin piston), 392.9 cm² (60.9 solic)  Single disc (twin piston), 259.8 cm² (40.3 solic)  10.0 ℓ (2.64 U.S. gal., 2.20 Imp. gal.)  10 mm (0.4 in)  6°  After '87:  Afte	
After '87: Rear '86, '87: After	
Rear '86, '87:	
After '87:  Tire pressure  Front Rear '86, '87: After '87:  Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle  '86, '87: After '87:  AT20 X 10.00-9 ★ 4.0 psi (0.275 kg/cm², 27.5 kPa) 2.9 psi (0.2 kg/cm², 20 kPa) 3.3 psi (0.225 kg/cm², 22.5 kPa) Single disc (twin piston), 392.9 cm² (60.9 s Single disc (twin piston), 259.8 cm² (40.3 s 10.0 ℓ (2.64 U.S. gal., 2.20 lmp. gal.) 2.0 ℓ (0.53 U.S. gal., 0.44 lmp. gal.) 10 mm (0.4 in) 6° After '87: After '87:  Camber Trail length '86, '87: After '87: 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
Tire pressure Front Rear '86, '87: After '87:  Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle  '86, '87: After '87:  Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle  '86, '87: After '87:  Camber Trail length  '86, '87: After '87: After '87:  4.0 psi (0.275 kg/cm², 27.5 kPa) 2.9 psi (0.2 kg/cm², 20 kPa) 3.3 psi (0.225 kg/cm², 20 kPa) 3.3 psi (0.225 kg/cm², 20 kPa) 3.3 psi (0.25 kg/cm², 20 kPa) 4.0 psi (0.2 kg/cm², 20 kPa) 4.0 psi (0.5 kg/cm², 20 kPa) 4.0 psi (0.2 p	
Rear '86, '87:	
After '87:  Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle  After '87:  After '8	12 164
Front brake, lining swept area Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle  After '87:  Trail length  Front brake, lining swept area Single disc (twin piston), 392.9 cm² (60.9 s Single disc (twin piston), 259.8 cm² (40.3 s 10.0 l (2.64 U.S. gal., 2.20 lmp. gal.) 10 mm (0.4 in) 6° 4°40′ 0° 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
Rear brake, lining swept area Fuel capacity Fuel reserve capacity Toe-in Caster angle	
Fuel capacity Fuel reserve capacity Toe-in Caster angle  Camber Trail length  Fuel capacity Fuel reserve capacity Toe-in Caster angle  10.0 ℓ (2.64 U.S. gal., 2.20 Imp. gal.) 2.0 ℓ (0.53 U.S. gal., 0.44 Imp. gal.) 10 mm (0.4 in) 6° 4°40′ 0° 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
Fuel reserve capacity Toe-in Caster angle  Camber Trail length  2.0 ℓ (0.53 U.S. gal., 0.44 Imp. gal.) 10 mm (0.4 in) 6° 4°40′ 0° 27 mm (1.06 in) After '87: 21 mm (0.83 in)	q-in)
Toe-in Caster angle  '86, '87: After '87:  Camber Trail length  '86, '87: 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
Caster angle '86, '87: 6° After '87: 4°40' Camber Trail length '86, '87: 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
After '87: 4°40'  Camber  Trail length '86, '87: 27 mm (1.06 in)  After '87: 21 mm (0.83 in)	
Camber Trail length '86, '87: 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
Trail length '86, '87: 27 mm (1.06 in) After '87: 21 mm (0.83 in)	
After '87: 21 mm (0.83 in)	
Tread Front 910 mm (35.8 in)	
Rear '86, '87: 870 mm (34.3 in)	
After '87: 900 mm (35.4 in)	
Engine dry weight 26.0 kg (57.3 lb)	
Bore x stroke 66.0 x 72.0 mm (2.60 x 2.83 in)	
Displacement 246 cm <sup>3</sup> (15.01 cu-in)	
Compression ratio '86: 7.5:1	
After '86: 7.7:1	
Transmission oil capacity 0.7 ℓ (0.74 U.S. qt., 0.62 lmp. qt.) at disast	
0.6 ℓ (0.63 U.S. qt., 0.53 Imp. qt.) after dra	
Lubrication system Gasoline/oil mixture	
Fuel required Gasoline-oil ratio 20 : 1 (pre-mixed) (RON, 9	ining
	ining
Air filtration Oiled polyurethane foam 1,500 ± 150 rpm	ining

CARBURETOR	Туре	Piston valve
	Identification number '86:	PJ 05A
	'87:	PJ 07A
	′88:	PJ07B
	After '88:	PJ07C
	Main Jet '86:	#150
	187:	#152
	′88:	#158
	After '88:	#155
	Venturi diameter	34 mm (1.3 in)
	Slow jet '86, '87:	#48
	'88:	#45
	After '88:	#45
	Float level	# 42 16 mm (0.63 in)
	Air screw initial opening '86, 87:	1-7/8 turns out
	′88:	1-3/4 turns out
	After '88:	1-1/2 turns out
	Jet needle '86, After 88:	4th groove
	′87, ′88:	3rd groove
DRIVE TRAIN	Clutch	Wet multi-plate type
	Transmission	6-speed, constant mesh
	Primary reduction ratio	2.652 (61/23)
	Gear ratios I	2.570 (36/14)
	II.	2.062 (33/16)
	III	1.667 (30/18)
	IV	1.333 (28/21)
	V ′86:	1.083 (26/24)
	After '86:	1.087 (25/23)
	VI '86:	0.884 (23/26)
	After '86:	0.920 (23/25)
	Final reduction ratio '86, '87:	3.000 (39/13)
	After '87:	2.923 (38/13)
	Gearshift pattern	Left foot operated return system, 1-N-2-3-4-5-6
LECTRICAL	Ignition system	CDI
	Ignition timing "F" mark 86, 87:	19° BTDC/1,500±150 rpm
	After '87:	21° BTDC/1,500±150 rpm
	Starting system	Primary kick starter
	Alternator '86-'88:	0.159 kW/5,000 rpm
	After '88:	0.154 kW/5,000 rpm
	Spark plug '86, After '88: (STD)	BR8ES (NGK) RN3C (CHAMPION)
	'87, '88: (STD)	BR9ES (NGK) RN2C (CHAMPION)
	Spark plug	0.7-0.8 mm (0.028-0.031 in)
	Tailight '86:	12 V-8 W
	After '86:	12 V-5 W
	Headlight	12 V - 55/60 W

# **TORQUE VALUES**

### **ENGINE**

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N•m (kg-m, ft-lb)	REMARKS
Cylinder head nut	6	8	24-29 (2.4-2.9, 17-21)	
Cylinder base nut	4	10	38-48 (3.8-4.8, 27-35)	
Clutch center lock nut	1	18	55-65 (5.5-6.5, 40-47)	
Primary drive gear bolt	1	10	40-50 (4.0-5.0, 29-36)	
Shift drum center pin	1	8	20-24 (2.0-2.4, 14-17)	
Transmission drain bolt	1	12	25-35 (2.5-3.5, 18-25)	
Countershaft bearing holder screw	2	6	8-12 (0.8-1.2, 6-9)	
Shift drum stopper arm bolt	1	6	10-14 (1.0-1.4, 7-10)	
Alternator rotor nut	1	12	65-75 (6.5-7.5, 47-54)	
Drive sprocket bolt	1	8	30-34 (3.0-3.4, 22-24)	
Water pump impeller nut '86-'88:	1	6	8-12 (0.8-1.2, 6-9)	
Water pump impeller After '88:	1	6	10-14 (1.0-1.4, 7-10)	
Spark plug	1	14	15-20 (1.5-2.0, 11-14)	
Coolant drain bolt	2	6	8-12 (0.8-1.2, 6-9)	

#### **CHASSIS**

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kg-m, ft-lb)	REMARKS
Gearshift pedal bolt	1	6	10-14 (1.0-1.4, 7-10)	
Kick starter pedal pinch bolt	1	8	20-35 (2.0-3.5, 14-25)	
Parking brake adjust bolt lock nut	1	8	15-20 (1.5-2.0, 11-14)	
Front wheel hub nut '86, '87:	2	18	80-120 (8.0-12.0, 58-72)	
After '87:	2	14	60-80 (6.0-8.0, 43-58)	
Tie-rod ball joint nut	4	10	40-50 (4.0-5.0, 29-36)	
Tie-rod lock nut	4	12	50-60 (5.0-6.0, 36-43)	
Front arm ball joint nut			1	
('86, '87 only:)	2	14	60-80 (6.0-8.0, 43-58)	
Knuckle arm nut ('86, '87 only:)	4	10	60-70 (6.0-7.0, 43-51)	
Front arm nut	4	12	50-60 (5.0-6.0, 36-43)	
Front arm mounting bolt				
'86, After '87:	8	10	35-45 (3.5-4.5, 25-33)	
′87:	8	10	50-60 (5.0-6.0, 36-43)	
Front shock absorber mounting bolt	4	10	40-50 (4.0-5.0, 29-36)	
Steering shaft nut	1	14	60-80 (6.0-8.0, 43-58)	
Handlebar lower holder mounting				
nut	2	10	40-50 (4.0-5.0, 29-36)	
Steering shaft holder bolt	4	8	25-30 (2.5-3.0, 18-22)	Sec. 1
Rear axle outer lock nut	1	48	80-100 (8.0-10.0, 58-72)	left hand
Tiedi dale outer lock flut		40	00 100 (0.0 10.0, 00 72)	threads
Rear axle inner lock nut	1	48	120-140 (12.0-14.0, 87-101)	left hand
Real axie illier lock ridt		40	120 140 (12.0 14.0, 07 101)	threads
Rear wheel hub nut	2	20	120-170 (12.0-17.0, 87-123)	apply oil or
near wheel hub hut		20	120 170 (12.0 - 17.0, 07 - 120)	grease to
			- 83	threads
Front, rear wheel nut	16	10	60-70 (6.0-7.0, 43-51)	tapered nut
	4	8	24-30 (2.4-3.0, 17-22)	tapered nut
Handlebar upper holder bolt	4	0	24-30 (2.4-3.0, 17-22)	

ITEM	Q'TY (After '87)	THREAD DIA. (mm)	TORQUE N·m (kg-m, ft-lb)	REMARKS
Front disc socket bolt	8(6)	6	14-16 (1.4-1.6, 10-12)	
Front brake caliper mounting bolt	4	8	20-30 (2.0-3.0, 14-22)	
Brake hose oil bolt	5	10	25-35 (2.5-3.5, 18-25)	
Bleed valve	3	7	4-7 (0.4-0.7, 3-5)	
Rear disc socket bolt	4	8	35-40 (3.5-4.0, 25-29)	
Pad pin bolt	4	8	15-20 (1.5-2.0, 10-14)	
Pad pin bolt plug	4	8	10-20 (1.0-2.0, 7-14)	
Rear caliper bracket mounting bolt	2	8	28-34 (2.8-3.4, 20-25)	
Rear caliper mounting bolt	1	8	20-25 (2.0-2.5, 14-18)	
Front brake pipe nut	2	10	15-20 (1.5-2.0, 11-14)	
Erake hose joint				
(hose side) ('86, '87 only:)	2	10	12-15 (1.2-1.5, 9-11)	
(joint side) ('86, '87 only:)	2	10	30-40 (3.0-4.0, 22-29)	
Three-way joint mounting bolt	2 (1)	6	10-14 (1.0-1.4, 7-10 ft-lb)	
Front master cylinder holder	2	6	10-14 (1.0-1.4, 7-10 ft-lb)	
Master cylinder cover screw	4	4	1-2 (0.1-0.2, 0.7-1.4)	
Parking brake attaching bolt	2	8	20-25 (2.0-2.5, 14-18)	
Shock absorber hose oil bolt	2	10	28-32 (2.8-3.2, 20-23)	
Compression damping valve	1		15-20 (1.5-2.0, 11-14)	
Rear shock absorber mounting bolt				
(upper)	1	10	45-55 (4.5 <u>*</u> 5.5, 33-40)	
(lower)	1	12	70-80 (7.0-8.0, 51-58)	
Shock arm pivot bolt	1	12	70-80 (7.0-8.0, 51-58)	
Shock link pivot bolt	1	12	70-80 (7.0-8.0, 51-58)	
Swingarm pivot nut	1	14	70-110 (7.0-11.0, 51-80)	
Swingarm bearing holder socket bolt	2 (4)	8	19-23 (1.9-2.3, 14-17)	Apply oil or
3				grease to
				threads
Driven sprocket bolt	4	10	47-55 (4.7-5.5, 34-40)	Apply locking
			,	agent to
				threads
Engine hanger plate and pipe bolt	8	8	25-35 (2.5-3.5, 18-25)	
Engine mounting bolt	5 (4)	10	50-60 (5.0-6.0, 36-43)	
Foot peg mounting bolt			00 00 (0.0 0.0, 00 .0,	
('86, '87 only:)	4	10	50-60 (5.0-6.0, 36-43)	
Shock absorber spring lock nut	1		80-100 (8.0-10.0, 58-72)	
Skid plate	4	8	28-34 (2.8-3.4, 20-25)	
Radiator hose band	6		0.7-1.0 (0.07-0.1, 0.5-0.7)	
Rear brake torque bolt (After '87:)	1	12	50-60 (5.0-6.0, 36-43)	Apply locking
1			00 00 (0.0 0.0, 00 40)	agent

Torque specifications listed above are for important fasteners. Others should be tightened to standard torque values listed below.

#### STANDARD TORQUE VALUES

ITEM	TORQUE N•m (kg-m, ft-lb)	ITEM	TORQUE N•m (kg-m, ft-lb)
5 mm bolt and 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 and nut	8-12 (0.8-1.2, 6-9)	6 mm screw and 6mm bolt with 8 mm head	7-11 (0.7-1.1, 5-8)
3 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	ALTERNATE TOOL	TOOL NUMBER	REF. SECT.
Camber/caster gauge attachment	07910-MJ30100	Not available in U.S.A.		3
Crankcase puller	07973-4300000			8
Bearing remover, 17mm	07936-3710300			6, 8
Remover handle	07936-3710100			6, 8
Remover weight	07741-0010201	Remover weight	07936-3710200	6, 8
Assembly bolt	07965-1660200			8
Thread adapter	07965-KA30000			8
Driveshaft dis/assembly tool (B)	07964-MB00200			8
Mechanical seal driver attachment	07945-4150400	Mechanical seal installer	GH-AH-065-415	9
			(U.S.A. only)	
Attachment, 28 x 30 mm	07946-1870100			9
	1. 0. 0. 100 000000			12 (After '87:)
Bearing remover set, 12 mm	07936-1660001	Not available in U.S.A.	S.F	9
- Remover weight	07741-0010201	Remover weight	07936-3710200	9
-Bearing spindle assy, 12 mm	07936-1660100			9
Universal bead breaker	GN-AH-958-BB1	(U.S.A only)		10
Ball joint remover	07941-6920003			10
Shock absorber compressor	07959-MB10000			10
attachment				
Shock absorber compressor attachment	07967-KC10100	Not available in U.S.A.	-	10
Lock nut wrench, 56mm	07916-HA20000	Lock nut wrench, 56 mm	07916-HA2010A	11
LOCK Hat Wichen, Comm	07010 111120000	LOCK Hat Without, So Hill	(U.S.A. only)	
Lock nut wrench, 45 mm	07916-1870101	Equivalent commercially	(O.O.A. Olly)	11
LOOK Hat Wienen, To Him	07010 1070101	available in U.S.A.		par ·
Valve wrench	07920-KA30001	Not available in U.S.A.	4	12
Needle bearing remover	07946-KA50000	Trot available in Grown		12
Snap ring pliers	07914-3230001			13
Circuit tester (SANWA)	07308-0020000	Circuit tester (KOWA)	TH-5H	15
Digital multimeter	07411-0020000	Digital multimeter	KS-AHM-32-002	15
		9	(U.S.A. only)	
Spherical bearing driver	07HMF-HC00100		1	10
	07931-MA70000			12

#### COMMON

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	TOOL NUMBER	REF. SECT.
Float level gauge	07401-0010000			3
Rotor puller	07733-0010000	Rotor puller	07933-0010000	6
Universal holder	07725-0030000			6
Clutch center holder	07724-0050001	Equivalent commercially		7
		available in U.S.A.		
Gear holder	07724-0010100	Not available in U.S.A.		7
Driver	07749-0010000			6,8,9,10,11,12
Attachment, 37 x 40 mm	07746-0010200			6,8,10
Pilot, 17 mm	07746-0040400			6,10
Attachment, 62 x 68 mm	07746-0010500			8,11
Pilot, 28 mm	07746-0041100			8
Attachment, 52 x 55 mm	07746-0010400			8
Pilot, 25 mm	07746-0040600			8
Pilot, 22 mm	07746-0041000			8
Pilot, 12 mm	07746-0040200			9
Bearing remover shaft	07746-0050100-	Equivalent commercially		10
Bearing remover head, 20 mm	07746-0050600-	available in U.S.A.		10
				12 (After '87)
Attachment, 42 x 47 mm	07746-0010300			10
Pilot, 20 mm	07746-0040500			10
				12 (After '87)
Bearing remover shaft	07GGD-0010100			12
(After '87:)				
Tire bead breaker set	07772-0050001-	Not available in U.S.A.		10
—Breaker arm	07772-0050200-	+		
-Breaker arm compressor	07772-0050101-	+		
Shock absorber compressor	07959-3290001	Shock absorber compres-	07GME-0010000	10
		sor		200000
		-Compressor screw	07GME-0010100	10
		assebly		
Pilot, 40 mm	07746-0040900			11
Attachment, 32 x 35 mm	07746-0010100			10
(After '87:)				
Pilot, 15 mm (After '87:)	07746-0040300			10

#### OPTIONAL TOOLS

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	TOOL NUMBER	REF. SECT.
Pin spanner	89201-KA4-810			12
Pin spanner	89202-KA4-810			12

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