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HONDA

SERVICE MANUAL

TRX300
TRX300FW
FOURTRAX

HOW TO USE THIS MANUAL

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition and the emission levels are within the standards set by the California Air Resources Board.

Sections 1 through 3 apply to the complete FOURTRAX, while sections 4 through 21 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, service information and troubleshooting for the section. The subsequent pages give detailed procedures.

If you don't know the source of the trouble, go to section 22, 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. Honda Motor CO., LTD. reserves the right to make changes at any time without notice and without incurring any obligation whatever.

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HONDA MOTOR CO., LTD.
Service Publications Office

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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 an enclosed area. The exhaust contains poisonous carbon monoxide gas that may cause loss of consciousness and lead to death.

▲ 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

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

▲ WARNING

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

▲ WARNING

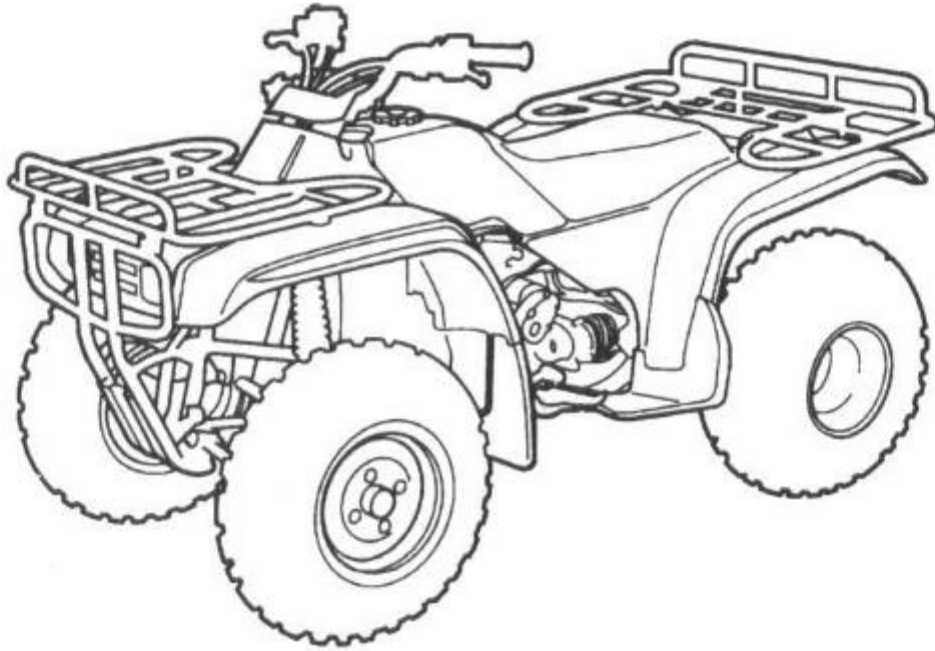
The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In the case of contact, flush thoroughly with water and call a doctor if electrolyte gets in your eyes.

SERVICE RULES

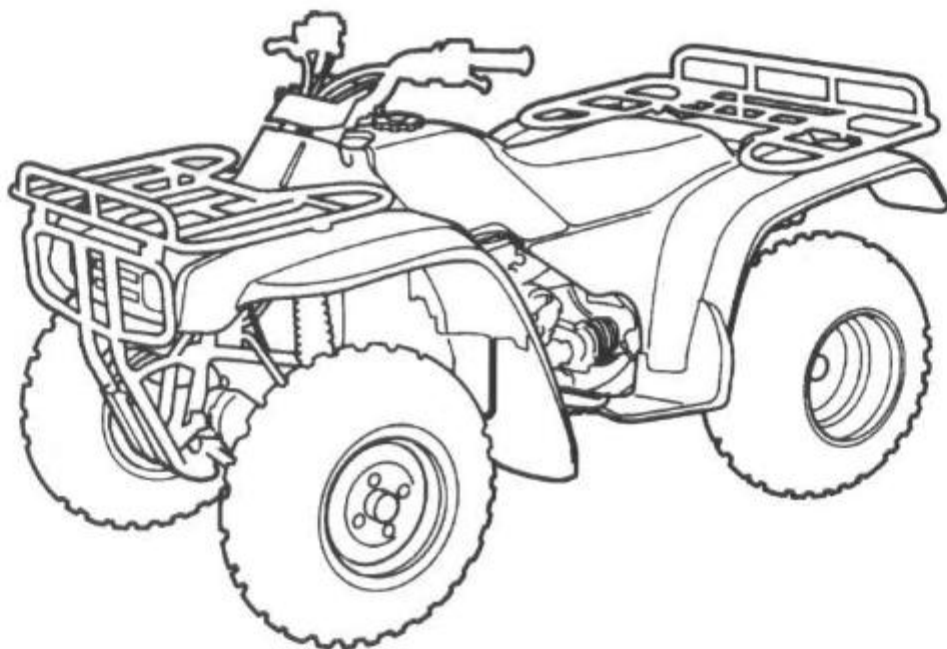
1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalents. Parts that don't meet HONDA's design specifications may cause damage to the vehicle.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing the vehicle. 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 incremental 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

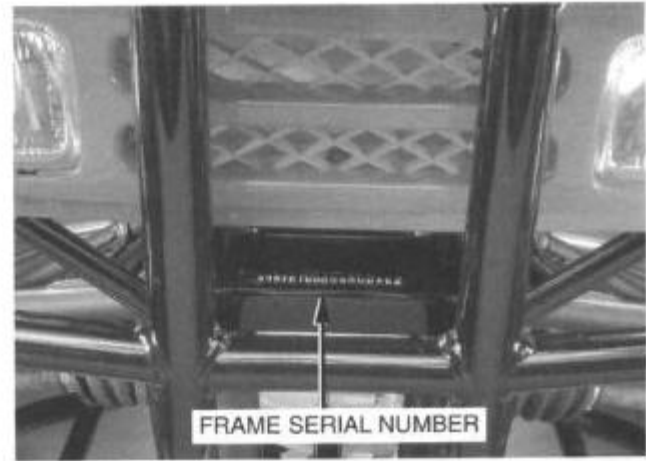
TRX300:



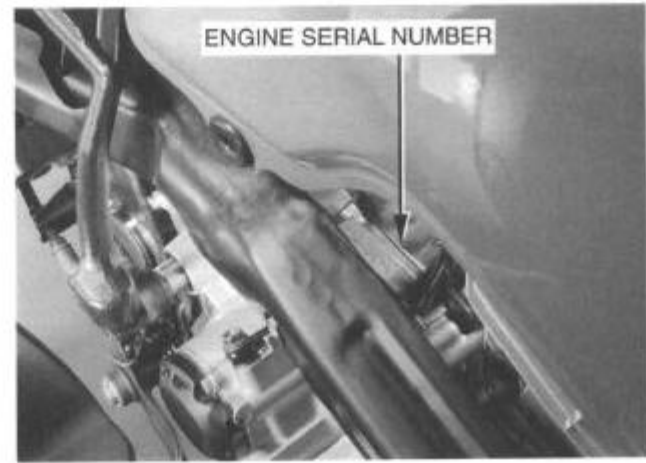
TRX300FW:



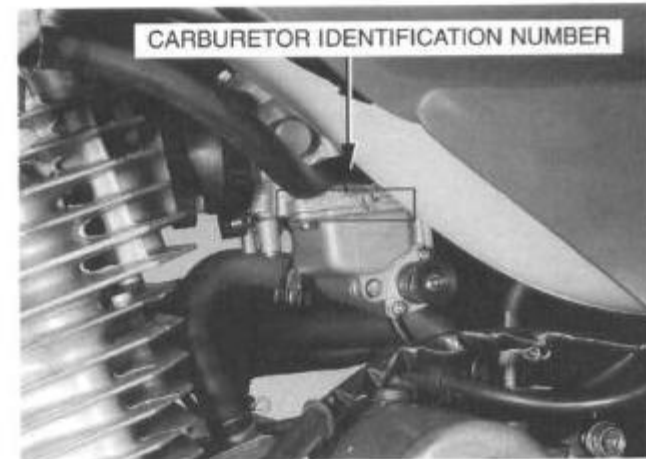
(1) The frame serial number is stamped on the front of the frame.



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



(3) The carburetor identification number is on the left side of the carburetor body.



GENERAL INFORMATION

SPECIFICATIONS

[]: TRX300FW

DIMENSIONS	Overall length		1,910 mm (75.2 in)		
	Overall width	'95-'97	1,115 mm (43.9 in)	[1,110 mm (43.7 in)]	
		After '97	1,157 mm (45.6 in)		
	Overall height	'95-'97	1,088 mm (42.8 in)	[1,085 mm (42.7 in)]	
		After '97	1,077 mm (42.4 in)	[1,089 mm (42.9 in)]	
	Wheelbase	'95-'97	1,239 mm (48.8 in)	[1,238 mm (48.7 in)]	
		After '97	1,239 mm (48.8 in)	[1,235 mm (48.6 in)]	
	Seat height	'95-'97	783 mm (30.8 in)	[780 mm (30.7 in)]	
		After '97	783 mm (30.8 in)	[788 mm (31.0 in)]	
	Foot peg height	'95-'97	305 mm (12.0 in)		
	After '97	297 mm (11.7 in)	[309 mm (12.2 in)]		
Ground clearance	'95-'97	160 mm (6.3 in)			
	After '97	160 mm (6.3 in)	[172 mm (6.8 in)]		
Dry weight		221 kg (487 lb)	[239 kg (527 lb)]		
FRAME	Type		Double cradle		
	Rim size	Front	11 x 6.5 AT		
		Rear	9 x 9.0 AT	[11 x 7.5 AT]	
	Suspension travel	Front	Axle travel 130 mm (5.1 in)		
		Rear	Axle travel 130 mm (5.1 in)		
	Front tire size, pressure		AT 23 x 8-11 **, 2.9 psi (0.20 kg/cm ² , 20 kPa) [AT 23 x 8-11 **, 4.4 psi (0.30 kg/cm ² , 30 kPa)]		
	Rear tire size, pressure		AT 25 x 11-9 *, 2.9 psi (0.20 kg/cm ² , 20 kPa) [AT 24 x 9-11 *, 2.9 psi (0.20 kg/cm ² , 20 kPa) with cargo: 3.6 psi (0.25 kg/cm ² , 25 kPa)]		
	Front brake		Hydraulic operated leading/trailing shoe [Hydraulic operated dual leading shoe]		
	Rear brake		Cable operated leading/trailing shoe		
	Fuel tank capacity		12.5 liters (3.3 US gal, 2.8 Imp gal)		
	Fuel reserve capacity		2.5 liters (0.7 US gal, 0.6 Imp gal)		
	Toe-in		5 mm (0.25 in)	[4 mm (0.16 in)]	
	Caster angle		7°	[2.2°]	
	Camber angle		0.2°	[0°]	
	Trail length		33.0 mm (1.26 in)	[10.0 mm (0.39 in)]	
Tread	Front	790 mm (31.1 in)	[840 mm (33.1 in)]		
	Rear	840 mm (33.1 in)	[840 mm (33.1 in)]		

ENGINE	<p>Type</p> <p>Cylinder arrangement</p> <p>Bore x stroke</p> <p>Displacement</p> <p>Compression ratio</p> <p>Valve train</p> <p>Oil capacity</p> <p>Lubrication system</p> <p>Cylinder compression</p> <p>Intake valve</p> <p>Exhaust valve</p> <p>Valve clearance (Cold)</p>	<p>Gasoline, air-cooled 4-stroke</p> <p>Single cylinder inclined 20° from vertical</p> <p>74.0 x 65.5 mm (2.91 x 2.58 in)</p> <p>281.7 cc (17.2 cu-in)</p> <p>9.0 : 1</p> <p>Overhead camshaft, chain driven</p> <p>2.5 lit (2.6 US qt, 2.2 Imp qt) at disassembly 2.2 lit (2.3 US qt, 1.9 Imp qt) after draining</p> <p>Forced pressure and wet sump</p> <p>1,250–1,450 kPa (12.5–14.5 kg/cm², 178–206 psi)</p> <p>11° BTDC 32° ABDC 43° BBDC 2° ATDC } at 1 mm lift</p> <p>Opens Closes</p> <p>Opens Closes</p> <p>Intake Exhaust</p> <p>0.15 mm (0.006 in) 0.15 mm (0.006 in)</p>
CARBURETOR	<p>Type</p> <p>Identification number</p> <p>Throttle bore</p> <p>Main jet</p> <p>Slow jet</p> <p>Starter jet</p> <p>Pilot screw initial opening</p> <p>Jet needle setting</p> <p>Float level</p> <p>Idle speed</p>	<p>Vacuum piston (VE)</p> <p>VE91C Except California type: VE91C California type: VE91D</p> <p>32 mm (1.3 in)</p> <p># 125</p> <p># 40</p> <p># 85</p> <p>see page 4-14</p> <p>3rd groove from the top</p> <p>18.5 mm (0.73 in)</p> <p>1,400 ± 100 rpm</p>

GENERAL INFORMATION

DRIVE TRAIN	Clutch		Wet multi-plate, automatic centrifugal		
	Transmission		5-speed constant mesh with reverse		
	Primary reduction		2.407 (65/27)		
	Gear Ratio	S/L		4.083 (49/12)	
		I		2.389 (43/18)	
		II		1.609 (37/23)	
		III		1.179 (33/28)	
		IV		0.848 (28/33)	
		Reverse		5.397 (34/12 x 40/21)	
	Final reduction	Front (TRX300FW)		5.554 (19/13 x 38/10)	
Rear			1.462 (19/13) x 3.889 (35/9)		
Gearshift pattern		Left foot operated return system, Forward: N-S/L-1-2-3-4 Reverse: N-R			
[Front differential oil capacity		200 cc (6.8 oz) at disassembly [190 cc (6.4 oz) after draining]			
[Front gear case oil capacity		200 cc (6.8 oz) at disassembly [190 cc (6.4 oz) after draining]			
Rear final drive oil capacity		100 cc (3.4 oz) at disassembly 90 cc (3.0 oz) after draining			
ELECTRICAL	Ignition		DC-CDI		
	Ignition timing	Initial	13° BTDC at idle		
		Full advance	31° BTDC at 4,500 ± 100 rpm		
	Alternator	Capacity	0.22 kW/5,000 rpm		
	Battery		12 V-12 AH		
	Spark plugs		NGK	DENSO	
		Standard	DPR8EA-9	X24EPR-U9	
		For cold climate (Below 5° C/41° F)	DPR7EA-9	X22EPR-U9	
		For extended high speed riding	DPR9EA-9	X27EPR-U9	
	Spark plug gap		0.8-0.9 mm (0.031-0.035 in)		
Headlight		12 V 25/25 W x 2			
Taillight		12 V 5 W			
Neutral indicator		12 V 1.7 W			
Reverse indicator		12 V 1.7 W			
Oil high temperature indicator		12 V 1.7 W			

TORQUE VALUES

ENGINE

Item	Q'ty	Thread Dia. (mm)	Torque			Remarks
			N•m	kg-m	ft-lb	
Engine oil drain bolt	1	12	25	2.5	18	NOTE 2
Oil filter cover bolt	3	6	10	1.0	7	
Clutch adjusting screw lock nut	1	8	22	2.2	16	
Valve adjusting lock nut	2	6	17	1.7	12	
Spark plug	1	12	18	1.8	13	
Insulator band screw	1	5	4	0.4	2.9	
Carburetor cover screw	1	5	3.5	0.35	2.5	
Starting enrichment (SE) valve nut	1	14	2.5	0.25	1.8	
Cylinder head cover (6 mm SH bolt)	3	6	10	1.0	7	
(6 mm flange bolt)	10	6	12	1.2	9	
Cylinder head (cap nut)	4	10	40	4.0	29	NOTE 1
(socket bolt)	3	8	25	2.5	18	
Cam sprocket bolt	2	7	20	2.0	14	
Cam chain tensioner lifter (mounting bolt)	2	6	10	1.0	7	
(sealing bolt)	1	6	10	1.0	7	
Oil pipe bolt (BLACK)	1	7	12	1.2	9	
Oil pump assembly bolt	2	5	7	0.7	5.1	
Oil path pipe bolt	2	7	12	1.2	9	
Cylinder mounting bolt	2	6	10	1.0	7	
Centrifugal clutch lock nut	1	20	120	12.0	87	
Change clutch lock nut	1	18	110	11.0	80	NOTE 1/3
Clutch spring bolt	4	6	12	1.2	9	NOTE 1
Reverse/neutral rotor bolt	1	6	12	1.2	9	
Right crankcase cover bolt	12	6	10	1.0	7	NOTE 1
Kick starter ratchet guide	2	6	12	1.2	9	
Starter reduction gear cover bolt	5	6	10	1.0	7	
Ignition pulse generator socket bolt	2	5	6	0.6	4	
Alternator stator bolt	3	6	10	1.0	7	
Starter clutch Torx bolt	6	6	16	1.6	12	
Flywheel bolt	1	12	110	11.0	80	
Gearshift return spring pin	1	8	22	2.2	16	
Left crankcase cover bolt	9	6	10	1.0	7	
Side shaft cover bolt (TRX300FW)	4	6	10	1.0	7	
OUTPUT GEAR						
Output shaft bearing holder bolt	3	8	23	2.3	17	NOTE 2/3
Countershaft bearing lock nut	1	64	100	10.0	72	
Output shaft bearing outer race lock nut	1	60	100	10.0	72	
Output shaft bearing inner race lock nut	1	28	75	7.5	54	
Output gear case mounting bolt	3	8	32	3.2	23	NOTE 1
Crankcase bolt	13	6	10	1.0	7	
Bearing set plate bolt	2	6	12	1.2	9	
Cam chain guide holder bolt	1	6	12	1.2	9	
Neutral switch	1	10	13	1.3	9	
Reverse switch	1	10	13	1.3	9	
Oil temperature sensor	1	12	18	1.8	13	

GENERAL INFORMATION

FRAME

Item	Q'ty	Thread Dia. (mm)	Torque			Remarks
			N•m	kg-m	ft-lb	
Engine bracket bolt (front)	4	10	75	7.5	54	
Engine bracket nut (upper)	2	10	75	7.5	54	
Engine mounting nut (front and upper)	2	10	75	7.5	54	
Engine mounting nut (rear/upper and rear/lower)	2	10	75	7.5	54	
Gearshift pedal bolt	1	6	16	1.6	12	
Footpeg bolt	8	8	33	3.3	24	
Fuel valve	1	18	28	2.8	20	
Exhaust muffler mounting bolt	3	10	55	5.5	40	
Exhaust pipe protector bolt	3	6	18	1.8	13	NOTE 1
DC consent	—	8	16	1.6	12	
FRONT						
Handlebar upper holder bolt	4	8	27	2.7	20	
Handlebar switch housing screw	2	5	2	0.2	1.4	
Master cylinder holder	2	6	12	1.2	9	
Handlebar grip end bolt	2	6	10	1.0	7	
Throttle case cover	2	4	3	0.3	2.5	
Handlebar lever pivot bolt	1	6	1.0	0.10	0.7	
Handlebar lever pivot bolt lock nut	1	6	6	0.6	4.3	
Wheel nut	8	10	65	6.5	47	
Wheel hub mounting bolt (TRX300FW)	4	6	10	1.0	7	
Front arm mounting nut	8	8	31	3.1	22	NOTE 5
Front arm ball joint nut	4	12	30–36	3.0–3.6	22–26	NOTE 5
Tie-rod ball joint nut	4	12	55	5.5	40	NOTE 5
Tie-rod lock nut	4	12	55	5.5	40	
Steering shaft upper holder bolt	2	8	33	3.3	24	
Steering shaft nut	1	14	100–120	10.0–12.0	72–87	NOTE 6
Handlebar lower holder nut	2	10	40	4.0	29	NOTE 5
Shock absorber mounting bolt	2	10	31	3.1	22	NOTE 5
	2	10	45	4.5	33	NOTE 5
	2	4	2	0.2	1.4	
Master cylinder cover screw	2	4	2	0.2	1.4	
Brake hose bolt	3 [4]	10	35	3.5	25	
Wheel cylinder bolt (TRX300)	4	6	8	0.8	6	
Adjuster bolt (TRX300)	4	6	8	0.8	6	
Front brake panel bolt	8	8	29	2.9	21	NOTE 5
Axle nut	2	18	80–100	8.0–10.0	58–72	NOTE 6
Wheel cylinder assy. 6 mm bolt (TRX300FW)	4	6	8	0.8	6	
8 mm bolt (TRX300FW)	4	8	17	1.7	12	
Brake pipe joint nut	2	10	14	1.4	10	NOTE 2
Brake hose/breather tube clamp bolt	4	6	12	1.2	9	
Brake bleeder valve	2	8	6	0.6	4.3	
REAR						
Wheel nut	8	10	65	6.5	47	
Axle housing bolt	4	10	45	4.5	33	
Axle lock nut (inner)	2	32	40	4.0	29	
(outer)	2	32	130	13.0	94	NOTE 1
Axle nut	2	18	140–160	14.0–16.0	101–116	
Brake panel drain bolt	1	12	25	2.5	18	
Brake panel nut	4	10	35	3.5	25	NOTE 5
Shock absorber mount nut	2	10	45	4.5	33	NOTE 5
Swingarm left pivot bolt	1	30	115	11.5	83	
Swingarm right pivot bolt	1	30	4	0.4	3	
Swingarm right pivot lock nut	1	30	115	11.5	83	
Trailer hitch bolt	5	10	75	7.5	54	NOTE 1

FRAME (cont'd)

[]: TRX300FW

Item	Q'ty	Thread Dia. (mm)	Torque			Remarks
			N•m	kg-m	ft-lb	
FRONT DIFFERENTIAL (TRX300FW)						
Oil filler cap	1	30	12	1.2	9	
Mounting bolt (10 mm)	4	10	45	4.5	33	
(8 mm)	2	8	22	2.2	16	
Cap bolt (Torx)	6	8	33	3.3	24	
Ring gear bolt	6	8	50	5.0	36	
Pinion bearing lock nut	1	60	100	10.0	72	NOTE 3
Pinion joint nut	1	16	110	11.0	80	NOTE 1
Drain bolt	1	8	12	1.2	9	
Cover bolt (10 mm)	2	10	48	4.8	35	NOTE 1
(8 mm)	6	8	26	2.6	19	
FRONT GEAR CASE (TRX300FW)						
Oil filler cap	1	30	12	1.2	9	
Mounting bolt (8 mm)	3	8	25	2.5	18	
(6 mm)	4	6	12	1.2	9	
Drain bolt	1	8	22	2.2	16	
Cover bolt	9	6	12	1.2	9	
FINAL DRIVE						
Oil filler cap	1	30	12	1.2	9	
Joint nut	4	10	45	4.5	33	NOTE 5
Cover bolt (10 mm)	2	10	48	4.8	35	NOTE 1
(8 mm)	6	8	26	2.6	19	
Pinion bearing lock nut	1	60	100	10.0	72	NOTE 3
Pinion joint nut	1	16	110	11.0	80	NOTE 1
Drain bolt	1	8	12	1.2	9	

- NOTE 1: Apply locking agent to the threads.
 2: Apply oil to the flange and threads.
 3: Stake.
 4: Left-hand threads.
 5: Do not re-use.
 6: Apply grease to the flange threads.

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	5 (0.5, 3.6)	5 mm screw	4 (0.4, 2.9)
6 mm bolt, nut	10 (1.0, 7)	6 mm screw, 6 mm flange bolt with 8 mm head	9 (0.9, 6.5)
8 mm bolt, nut	22 (2.2, 16)	6 mm flange bolt, nut	12 (1.2, 9)
10 mm bolt, nut	35 (3.5, 25)	8 mm flange bolt, nut	27 (2.7, 20)
12 mm bolt, nut	55 (5.5, 40)	10 mm flange bolt, nut	40 (4.0, 29)

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