

HONDA

SERVICE MANUAL



88-91
NT650
HAWK™ GT

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 U.S. Environmental Protection Agency and California Air Resources Board. Performing the first scheduled maintenance is very important. It compensates for the initial wear that occurs during the break-in period.

Sections 1 through 3 apply to the whole motorcycle, while sections 4 through 18 describe parts of the motorcycle, 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 20, 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 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 assemblies. Use an OSHA-approved vacuum cleaner or alternate method approved by OSHA designed to minimize the hazard caused by airborne asbestos fibers.

⚠ WARNING

- The rear shock absorber contains nitrogen under high pressure. Do not allow fire or heat near the shock absorber.*
- Before disposal of the shock absorber, release the nitrogen.*

⚠ WARNING

Gasoline is extremely flammable and is explosive under certain conditions work in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the work area or where gasoline is stored.

⚠ 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.

⚠ WARNING

Do not remove the radiator cap when the engine is hot. The coolant is under pressure and severe scalding could result. The engine must be cool before servicing the cooling system.

CAUTION:

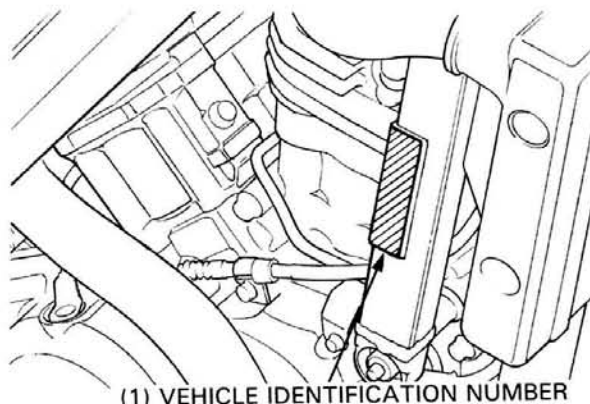
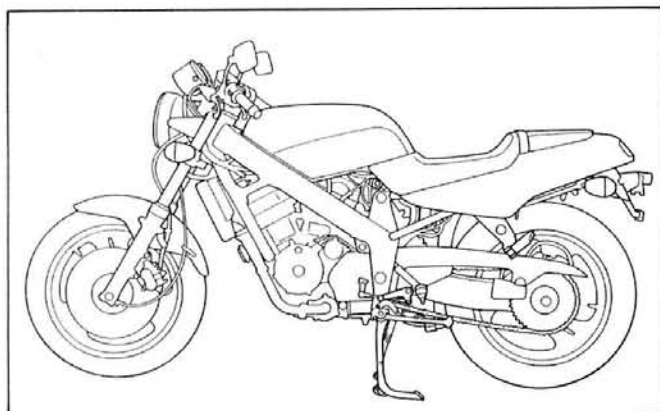
Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

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 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 bolts 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. Lubricate any sliding surfaces before re-assembly.
7. After reassembly, check all parts for proper installation and operation.
8. Route all wires as shown on pages 1-9 through 1-14. Cable and Harness Routing.

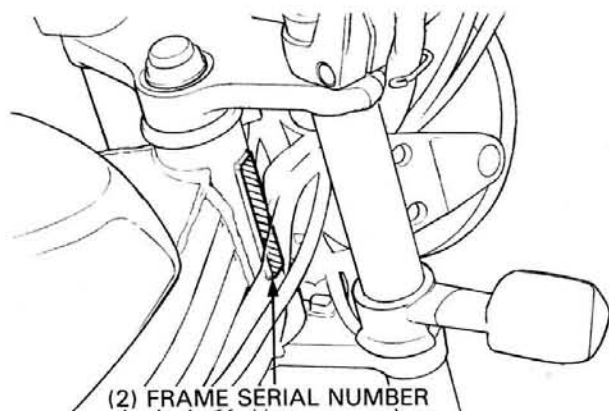
MODEL IDENTIFICATION

'88 SHOWN: After '88 Similar:



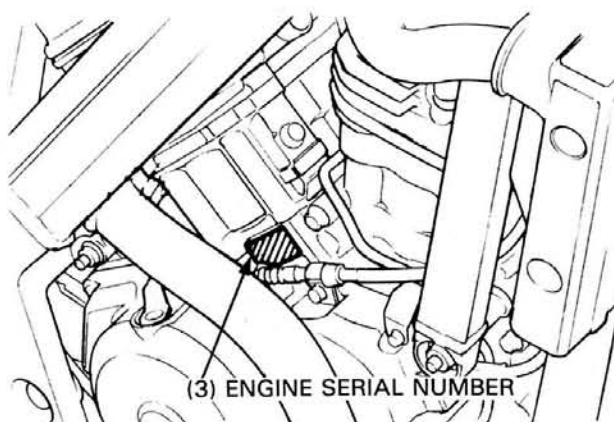
(1) VEHICLE IDENTIFICATION NUMBER

The vehicle identification number (VIN) is attached to the right side of the down tube.



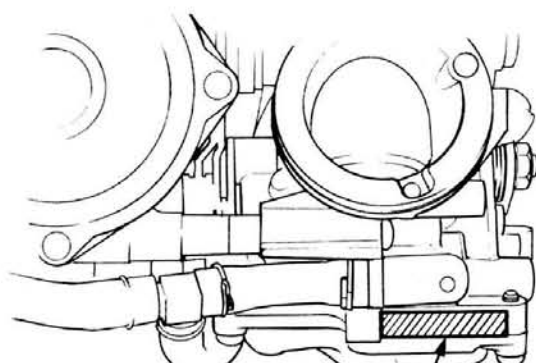
(2) FRAME SERIAL NUMBER

The frame serial number is stamped on the right side of the steering head.



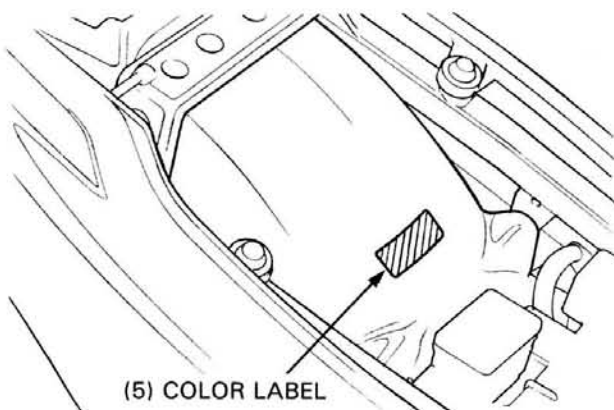
(3) ENGINE SERIAL NUMBER

The engine serial number is stamped on the right crankcase below the rear cylinder.



(4) CARBURETOR IDENTIFICATION NUMBER

The carburetor identification numbers are on the carburetor body intake side.



(5) COLOR LABEL

The color label is attached to the rear fender under the seat.

When ordering a color coded part, always specify its designated color code.

SPECIFICATIONS

ITEM		SPECIFICATIONS	
DIMENSIONS	Overall length	2,085 mm (82.1 in)	
	Overall width	750 mm (29.5 in)	
	Overall height	1,075 mm (42.3 in)	
	Wheelbase	1,430 mm (56.3 in)	
	Seat height	778 mm (30.6 in)	
	Foot peg height	355 mm (14.0 in)	
	Ground clearance	155 mm (6.1 in)	
	Dry weight	168 kg (370.3 lb)	
	Curb weight	184 kg (405.6 lb)	
FRAME	Type	Twin tube diamond, aluminium	
	Front suspension, travel	Telescopic fork, 130 mm (5.12 in)	
	Rear suspension, travel	Swingarm, 120 mm (4.72 in)	
	Gross vehicle weight rating	291 kg (642 lb)	
	Maximum weight capacity	156 kg (345 lb)	
	Front tire size	110/80—17 57H Tubeless type	
	Rear tire size	150/70—17 69H Tubeless type	
	Cold tire pressure	Up to 90 kg (200 lb) load	Front Rear
		Up to maximum weight capacity	Front Rear
	Front brake, lining swept area		Hydraulic single disc, 262 x 2 cm ² (40.6 x 2 sq in)
	Rear brake, lining swept area		Hydraulic single disc, 200 x 2 cm ² (31.0 x 2 sq in)
	Fuel capacity		12.0 lit (3.18 US gal, 2.64 Imp gal)
	Fuel reserve capacity		2.0 lit (2.10 US qt, 1.76 Imp qt)
	Caster angle		27°
	Trail length		111 mm (4.37 in)
	Fork oil capacity		'88: 497 cc (16.8 US oz, 17.4 Imp oz) After '88: 502 cc (16.9 US oz, 17.6 Imp oz)
	Fork oil level	'88:	133 mm (5.2 in)
		After '88:	128 mm (5.0 in)
ENGINE	Type	Water cooled twin, 4-stroke SOHC (Single Over Head Camshaft) engine	
	Cylinder arrangement	2 Cylinders 52° V	
	Bore and stroke	79.0 x 66.0 mm (3.11 x 2.60 in)	
	Displacement	647 cc (39.4 cu-in)	
	Compression ratio	9.4 : 1	
	Valve train	Silent, multi-link chain drive and OHC with rocker arms	
	Oil capacity	: after disassembly	2.8 lit (2.94 US qt, 2.46 Imp qt)
		: with oil filter	2.3 lit (2.43 US qt, 2.02 Imp qt)
		: after draining	2.2 lit (2.32 US qt, 1.94 Imp qt)
	Coolant capacity	Coolant change	1.6 lit (1.51 US qt, 1.41 Imp qt)
		Total system	2.2 lit (2.32 US qt, 1.94 Imp qt)
	Lubrication system	Forced pressure and wet sump	
	Air filtration	Paper filter	
	Cylinder compression	1,324 ± 196 kPa (13.5 ± 2 kg/cm ² , 192 ± 28 psi)	
	Intake valve	: Opens	10° BTDC
		: Closes	40° ABDC
			— at 1 mm lift
	Exhaust valve	: Opens	40° BBDC
		: Closes	10° ATDC
			— at 1 mm lift
	Valve clearance (cold)	: intake	0.15 ± 0.02 mm (0.006 ± 0.0008 in)
		: exhaust	0.20 ± 0.02 mm (0.008 ± 0.0008 in)
	Engine weight	80 kg (176 lb)	
	Idle speed	1,200 ± 100 rpm	

GENERAL INFORMATION

[]: California model

ITEM		SPECIFICATIONS	
CARBURE-TION	Carburetor type	Constant Velocity dual carburetor	
	Identification number	VDGKA [VDGLA]	
	Pilot screw initial setting	See page 4-14	
	Float level	9.2 mm (0.36 in)	
DRIVE TRAIN	Clutch	Cable operating, multi-plate, wet	
	Transmission	5-speed	
	Primary reduction	1.888 (36/68)	
	Final reduction	2.750 (16/44)	
	Gear ratio I	2.769 (13/36)	
	Gear ratio II	1.882 (17/32)	
	Gear ratio III	1.450 (20/29)	
	Gear ratio IV	1.174 (23/27)	
	Gear ratio V	0.965 (29/28)	
	Gear shift pattern	Left foot operated return system, 1—N—2—3—4—5	
ELECTRICAL	Ignition	Digitalized full transistor ignition	
	Ignition timing "F" mark	10° BTDC at idle	
	Full advance	31° BTDC at 7,000 ± 200 rpm	
	Starting system	Starter motor	
	Alternator	240 W/5,000 rpm	
	Battery capacity	12 V 8 Ah MF Battery	
	Spark plug	NGK	ND
	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	0.80—0.90 mm (0.031—0.035 in)	
	Firing order	Front—(232°)—Rear—(488°)—Front	
	Fuse/Main fuse	10 A x 6, 15 A x 1/30 A	
LIGHTS	Headlight (high/low beam)	12 V—60/55 W	
	Tail/brakelight	12 V—2/32 cp x 2 SAE No. 1157	
	Front turn signal/running light	12 V—32/3 cp SAE No. 1034	
	Rear turn signal light	12 V—32 cp SAE No. 1073	
	Instrument light	12 V—3.4 W x 1, 1.7 W x 2	
	Oil pressure warning light	12 V—3.0 W	
	High beam indicator	12 V—3.0 W	
	Turn signal indicator	12 V—3.0 W x 2	
	Neutral indicator	12 V—3.0 W	

TORQUE VALUES

The torque specifications listed under "Engine" and "Frame" are for specific tightening points. If a specification is not listed, follow the standard torque values below.

STANDARD TORQUE VALUES

TYPE	TORQUE N·m (kg-m, ft-lb)	TYPE	TORQUE N·m (kg-m, ft-lb)
5 mm bolt, nut	5 (0.50, 3.6)	5 mm screw	4 (0.40, 2.9)
6 mm bolt, nut	10 (1.0, 7.2)	6 mm screw, 6 mm	
8 mm bolt, nut	22 (2.2, 16)	bolt with 8 mm head	9 (0.9, 6.5)
10 mm bolt, nut	35 (3.5, 25)	6 mm flange bolt, nut	12 (1.2, 9)
12 mm bolt, nut	55 (5.5, 40)	8 mm flange bolt, nut	27 (2.7, 20)
		10 mm flange bolt, nut	40 (4.0, 29)

ENGINE

Item	Q'ty	Thread dia. (mm)	Torque N·m (kg-m, ft-lb)	Remark
Spark plug	4	12	14 (1.4, 10)	Special bolt
Cylinder head cover bolt	4	6	10 (1.0, 7.2)	
Camshaft holder bolt	6	8	23 (2.3, 17)	
nut	2	8	23 (2.3, 17)	
6 mm bolt	4	6	10 (1.0, 7.2)	
Cylinder head nut	8	10	48 (4.8, 35)	Socket bolt NOTE 1
bolt	4	8	23 (2.3, 17)	
8 mm nut	4	8	23 (2.3, 17)	
6 mm bolt	2	6	10 (1.0, 7.2)	
Camshaft sprocket bolt	4	7	23 (2.3, 17)	
Clutch lock nut	1	18	130 (13.0, 94)	Staked nut.
Right crankcase cover bolt	15	6	10 (1.0, 7.2)	Apply clean engine oil to the O-ring
Left crankcase cover bolt	9	6	10 (1.0, 7.2)	
Oil filter cartridge	1	20	10 (1.0, 7.2)	
Oil drain bolt	1	14	35 (3.5, 25)	
Neutral switch	1	10	12 (1.2, 9)	
Oil pressure switch	1	—	12 (1.2, 9)	NOTE 4
Primary drive gear bolt	1	12	90 (9.0, 65)	UBS bolt, NOTE 2
Flywheel bolt	1	12	130 (13.0, 94)	Left hand threads, NOTE 2
Starter one way clutch	6	8	30 (3.0, 22)	Torx bolt, NOTE 1
Oil control bolt	1	10	23 (2.3, 17)	Special bolt
Oil pipe bolt	2	7	10 (1.0, 7.2)	
Connecting rod cap nut	4	8	34 (3.4, 25)	
Crankcase bolt	14	8	27 (2.7, 20)	
	6	6	12 (1.2, 9)	
Shift drum stopper plate bolt	1	6	26 (2.6, 19)	NOTE 2
Insulator band screw	4	5	4 (0.4, 2.9)	NOTE 2
Timing hole cap	1	14	10 (1.0, 7.2)	NOTE 2
Crankshaft hole cap	14	30	15 (1.5, 11)	NOTE 3
Oil pump driven sprocket bolt	1	6	15 (1.5, 11)	NOTE 3
Valve adjusting screw lock nut	6	7	23 (2.3, 17)	NOTE 1
Cylinder stud bolt 8 mm	2	8	20–30 (2.0–3.0, 14–22)	NOTE 1, Refer section 10.
10 mm	8	10	30–50 (3.0–5.0, 22–36)	NOTE 1, Refer section 10.

NOTE 1: Apply a locking agent to the threads.

NOTE 2: Apply clean engine oil to the threads.

NOTE 3: Apply molybdenum disulfide grease to the threads.

NOTE 4: Apply sealant to the threads.

GENERAL INFORMATION

FRAME

Item	Q'ty	Thread dia. (mm)	Torque N·m (kg-m, ft-lb)	Remark
Front engine bracket bolt	4	8	28 (2.8, 20)	NOTE 2
Front engine mounting bolt	1	10	40 (4.0, 29)	
Rear upper engine mounting bolt	1	10	40 (4.0, 29)	
—mounting bolt lock nut	1	22	55 (5.5, 40)	
—mounting bolt adjusting bolt	1	22	11 (1.1, 8)	
Gearshift arm bolt	1	6	12 (1.2, 9)	NOTE 3
Thermostatic switch	1	16	18 (1.8, 13)	
Exhaust pipe joint nut	4	8	27 (2.7, 20)	
Muffler band bolt	1	8	27 (2.7, 20)	
Muffler mounting bolt	2	8	27 (2.7, 20)	
Fuel tank mounting bolt : Front	1	6	12 (1.2, 9)	
: Rear	1	8	22 (2.2, 16)	
Fuel filter bracket bolt	1	6	22 (2.2, 16)	
Front brake master cylinder holder	2	6	12 (1.2, 9)	
Brake oil bolt	4	10	30 (3.0, 22)	
Brake reservoir screw	4	4	1.5 (0.2, 1.4)	Flange bolt
Bleed valve	2	7	6 (0.6, 4.3)	
Front caliper mounting bolt	2	8	27 (2.7, 20)	
Front caliper pin bolt	2	10	28 (2.8, 20)	
Pad pin	2	10	17 (1.7, 12)	
Pad pin plug	2	10	2.5 (0.25, 1.8)	NOTE 1
Front brake disc retaining bolt	6	8	40 (4.0, 29)	
Rear brake reservoir mounting screw	1	6	9 (0.9, 6.5)	
Rear brake disc retaining bolt	4	8	35 (3.5, 25)	
—retaining bolt lock nut	1	8	9 (0.9, 7)	
Rear caliper mounting bolt	2	8	27 (2.7, 20)	
Rear caliper pivot bolt	1	8	22 (2.2, 16)	
Brake torque rod bolt	2	10	35 (3.5, 25)	
Handlebar pinch bolt	2	8	27 (2.7, 20)	
Ignition switch mounting bolt	2	8	25 (2.5, 18)	
Fork pinch bolt (upper)	2	7	11 (1.1, 8)	NOTE 2
Fork pinch bolt (lower)	2	10	50 (5.0, 36)	
Fork tube cap	2	—	23 (2.3, 17)	
Fork socket bolt	2	8	17 (1.7, 12)	
Steering bearing adjustment nut	1	26	20 (2.0, 14)	
Steering stem nut	1	24	105 (10.5, 76)	NOTE 2
Front axle bolt	1	14	60 (6.0, 43)	Flange nut
Front axle pinch bolt	4	8	22 (2.2, 16)	
Rear wheel nut	1	18	120 (12.0, 87)	
Eccentric bearing carrier lock nut	1	35	165 (16.5, 120)	
Shock absorber upper mounting bolt	1	12	65 (6.5, 47)	
Shock absorber lower mounting bolt	1	10	45 (4.5, 33)	
Shock absorber damper rod lock nut	1	14	62 (6.2, 45)	NOTE 1
Swingarm adjusting bolt	1	26	15 (1.5, 11)	
Swingarm adjusting bolt lock nut	1	26	65 (6.5, 47)	
Swingarm pivot nut	1	14	65 (6.5, 47)	
Eccentric bearing carrier pinch bolt	1	16	75 (7.5, 54)	
Sprocket mounting bolt	6	8	43 (4.3, 31)	
Foot peg bracket bolt	4	8	27 (2.7, 20)	
Sub-frame mounting bolt	4	10	40 (4.0, 29)	
Side stand pivot bolt	1	10	38 (3.8, 27)	
Side stand bracket bolt	2	8	28 (2.8, 20)	
Center stand mounting bolt	2	10	55 (5.5, 40)	
Ignition switch mounting bolt	2	6	25 (2.5, 18)	Using a box wrench. Torx bolt

NOTE 1: Apply a locking agent to the threads.

NOTE 3: Apply sealant to the threads.

NOTE 2: Apply clean engine oil to the threads.

TOOLS

SPECIAL

Description	Tool number	Alternate tool	Tool number	Refer to section
Oil pressure gauge	07506-3000000	NOTE 1		2
Oil pressure gauge attachment	07510-4220100			2
Oil filter wrench	07HAA-PJ70100			2
Vacuum gauge	07404-0030000	Vacuum gauge	M937B-021-XXXXX	3
Valve adjusting wrench	07908-KE90000		07908-KE90100	
Vacuum/Pressure pump	A937X-041-XXXXX	Vacuum pump	ST-AH-260-MC7	4
		Pressure pump	ST-AH-255-MC7	4
Snap ring pliers	07914-3230001	NOTE 1		2, 13, 14
Steering stem socket	07916-3710100			12
Clutch center holder	07923-KE10000		07HGB-001000A	7
Bearing remover set	07936-3710001			11
—remover handle	07936-3710100			
—bearing remover set	07936-3710600			
—remover weight	07741-0010201	Remover weight	07936-3710200	
Valve guide driver attachment (IN)	07943-MF50100			9
Valve guide driver attachment (EX)	07943-MF50200			9
Valve guide reamer, 5.5 mm (IN)	07984-2000001		07984-200000B (U.S.A. only)	9
Valve guide reamer, 6.6 mm (EX)	07984-ZE20001		07984-ZE2000B	9
Steering stem driver	07946-MB00000			12
Lock nut wrench	07908-KE90000			12
Bearing remover set	07946-MJ00000			13
—driver head	07946-MJ00200			
—driver shaft	07946-MJ00100	Driver handle	07949-3710001	
Spherical bearing driver	07946-KA30200	NOTE 2		13
Ball race remover set	07946-KM90001*	Adjustable bearing puller	07736-A01000A (U.S.A. only)	12
—driver attachment A	07946-KM90100			
—driver attachment B	07946-KM90200			
—driver shaft assembly	07946-KM90300			
—bearing remover A	07946-KM90401*			
—bearing remover B	07946-KM90500			
—assembly base	07946-KM90600			
Fork seal driver	07947-KA50100			
—driver attachment	07947-KF00100			
Shock absorber compressor	07967-KE10000			13
Main bearing driver attachment	07HMF-MM90400			11
Oil seal driver	07965-KE80100			13
Digital multitester	KS-AHM-32-003	U.S.A. only		15
Christie battery charger	MC-1012/2			
Honda battery tester	07GMJ-0010000			

*: New for this model.

NOTE 1: Equivalent commercially available in U.S.A.

NOTE 2: Not available in U.S.A.