INTRODUCTION

This Addendum contains information for the 1982 CBX. Refer to the base shop manual for service information not included in this addendum.

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MODEL IDENTIFICATION







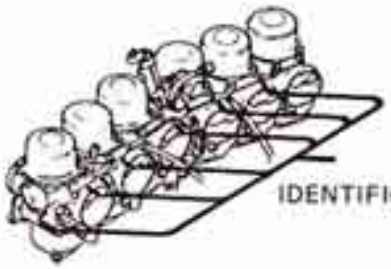
The frame serial number is stamped on the right side of the steering head.



The vehicle identification number (VIN) is on the left side of the steering head.



The engine serial number is stamped on the top of the crankcase.



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

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I. SPECIFICATIONS

ITEM			
DIMENSIONS	Overall length		2365 mm (93.1 in)
	Overall width		780 mm (30.7 in)
	Overall height		1360 mm (53.5 in)
	Wheelbase		1535 mm (60.4 in)
	Seat height		810 mm (31.9 in)
	Foot peg height		335 mm (13.2 in)
	Ground clearance		155 mm (6.1 in)
	Dry weight		287 kg (633 lb)
FRAME	Type		Diamond
	Front suspension, travel		Telescopic air forks 160 mm (6.3 in)
	Rear suspension, travel		Swingarm 105 mm (4.1 in)
	Front tire size		3.50V19 (4PR)
	Rear tire size		130/90V18
	Cold tire pressures	Up to 90 kg (200 lbs) load	Front : 250 kPa (2.5 kg/cm², 36 psi) Rear : 250 kPa (2.5 kg/cm², 36 psi)
		Up to vehicle capacity load	Front : 250 kPa (2.5 kg/cm², 36 psi) Rear : 290 kPa (2.9 kg/cm², 41 psi)
	F. brake, lining swept area		Double disc brake, 22 cm² x 4 (3.4 sqin x 4)
	R. brake, lining swept area		Single disc brake, 22 cm² x 2 (3.4 sqin x 2)
	Fuel capacity		22.0 liters (5.8 US gal)
	Fuel reserve capacity		3.0 liters (0.8 US gal)
	Caster angle		62°30'
	Trail		120 mm (4.7 in)
	Front fork oil capacity		345 cc (11.7 ozs)
	Front fork air pressure		70 ± 20 kPa (0.7 ± 0.2 kg/cm², 10 ± 3 psi)
	Rear suspension oil capacity		618 cc (20.9 ozs) at disassembly
	Rear suspension air pressure		200–400 kPa (2.0–4.0 kg/cm², 28–57 psi)
ENGINE	Type		Air cooled 4-stroke
	Cylinder arrangement		Vertical parallel six
	Bore and stroke		64.5 x 53.4 mm (2.54 x 2.10 in)
	Displacement		1047 cc (63.89 cu in)
	Compression ratio		9.3 : 1
	Valve train		Chain driven DOHC 4 valve/cylinder
	Maximum horsepower		100 BHP/9,000 rpm
	Maximum torque		8.5 kg-m (60.8 ft-lb)/7,500 rpm
	Oil capacity		5.5 liters (5.8 US qt) after disassembly 4.0 liters (4.2 US qt) after draining
	Lubrication system		Wet sump dual pump with oil cooler
	Air filtration		Paper
	Cylinder compression		12.0 ± 1.0 kg/cm² (170 ± 14 psi)
	Intake valve	Opens	5° (BTDC) at 1 mm lift, 78° (BTDC) at 0 lift
		Closes	35° (ABDC) at 1 mm lift, 110° (ABDC) at 0 lift
	Exhaust valve	Opens	40° (BBDC) at 1 mm lift, 94° (BBDC) at 0 lift
		Closes	5° (ATDC) at 1 mm lift, 71° (ATDC) at 0 lift
	Valve overlap		149°
	Valve clearance (Cold)		IN: / EX: 0.06–0.13 mm (0.002–0.005 in)
	Engine weight		108 kg (238.1 lb)
	Idle speed		900 ± 100 rpm

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ITEM		
CARBURETION	Carburetor type	VB 28 mm (1.1 in) venturi bore
	Identification number	VB64A
	Pilot screw	Refer to page 4-28
	Float level	15.5 mm (0.61 in)
DRIVE TRAIN	Clutch	Wet, multi-plate
	Transmission	5-speed constant-mesh
	Primary reduction	2.269
	Gear ratio I	2.438
	Gear ratio II	1.750
	Gear ratio III	1.391
	Gear ratio IV	1.200
	Gear ratio V	1.037
	Final reduction	2.333 (18/42)
	Gear shift pattern	Left foot operated return system 1–N–2–3–4–5
ELECTRICAL	Ignition	Transistorized
	Ignition timing "F" mark	10° BTDC static
	Full advance	41° BTDC at 8,000 rpm
	Firing order	1–5–3–6–2–4
	Starting system	Electric starter
	Alternator	Three phase Alternator 350 W/5,000 rpm
	Battery capacity	12V – 18AH
	NEW Spark plug	For cold climate below 5°C, 41°F: ND X22ESR-U, NGK DR7ES; Standard: ND X24ESR-U, NGK DR8ES-L; For extended high speed riding: ND X27ESR-U, NGK DR8ES
	Spark plug gap	0.6–0.7 mm (0.024–0.028 in)
LIGHTS	Headlight (high/low beam)	60/55W H4 BULB (Philips 12342/99, or equivalent)
	Tail/stoplight	8/27W, 3/32 cp SAE NO. 1157
	Turn signal Front	8/23W, 3/32 cp SAE NO. 1034
	Rear	23W, 32 cp SAE NO. 1073
	Speedometer light	3,4W, 2 cp SAE NO. 57
	Tachometer light	3,4W, 2 cp SAE NO. 57
	Neutral indicator	3,4W, 2 cp SAE NO. 57
	Turn signal indicator	3,4W, 2 cp SAE NO. 57
	High beam indicator	3,4W, 2 cp SAE NO. 57
	Rear suspension air pressure warning light	3,4W, 2 cp SAE NO. 57
	Running light	8W, 3 cp SAE NO. 1034

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II. MAINTENANCE SCHEDULE

Perform the PRE-RIDE INSPECTION in the Owner's Manual at each scheduled maintenance.
I: INSPECT AND CLEAN, ADJUST, LUBRICATE, OR REPLACE IF NECESSARY.
C: CLEAN A: ADJUST
R: REPLACE L: LUBRICATE

		ITEM \ FREQUENCY	WHICHEVER COMES FIRST / EVERY	ODOMETER READING (NOTE 3) 800 mi. (1,600 km)	4,000 mi. (6,400 km)	8,000 mi. (12,800 km)	12,000 mi. (19,200 km)	16,000 mi. (25,600 km)	20,000 mi. (32,000 km)	Refer to	
EMISSION RELATED ITEMS	*	FUEL LINES			I	I	I	I	I	Page 3-4	
	*	FUEL STRAINER		C	C	C	C	C	C	Page 22-6	NEW
	*	THROTTLE OPERATION		I	I	I	I	I	I	Page 3-7	
	*	CARBURETOR CHOKE			I	I	I	I	I	Page 3-10	
		AIR CLEANER	NOTE 1			R		R		Page 3-3	
		CRANKCASE BREATHER	NOTE 2		C	C	C	C	C	Page 3-4	
		SPARK PLUGS			R	R	R	R	R	Page 22-6	NEW
	*	VALVE CLEARANCE		I	I	I	I	I	I	Page 3-11	
	*	IGNITION TIMING		I	I	I	I	I	I	Page 3-5	
		ENGINE OIL	YEAR	R	R	R	R	R	R	Page 2-2, 3-8, 22-6	NEW
		ENGINE OIL FILTER	YEAR	R	R	R	R	R	R	Page 2-2	
	*	ENGINE OIL SCREEN					C			Page 2-3	
	*	CAM CHAIN TENSION		A	A	A	A	A	A	Page 3-15	
	*	CARBURETOR-SYNCHRONIZE		I	I	I	I	I	I	Page 3-8	
	*	CARBURETOR-IDLE SPEED		I	I	I	I	I	I	Page 3-10	
NON-EMISSION RELATED ITEMS		DRIVE CHAIN		I, L EVERY 300 mi. (500 km)						Pages 2-5, 3-17	
		BATTERY	MONTH	I	I	I	I	I	I	Page 3-18	
		BRAKE FLUID	MONTH I 2 YEARS *R	I	I	I	*R	I	I	Page 3-18	
		BRAKE PAD WEAR			I	I	I	I	I	Page 3-19	
		BRAKE SYSTEM		I	I	I	I	I	I	Page 3-19	
	*	BRAKE LIGHT SWITCH		I	I	I	I	I	I	Page 3-20	
	*	HEADLIGHT AIM		I	I	I	I	I	I	Page 3-20	
		CLUTCH		I	I	I	I	I	I	Page 3-22	
		SIDE STAND			I	I	I	I	I	Page 3-23	
	*	SUSPENSION		I	I	I	I	I	I	Page 3-24	
	*	NUTS, BOLTS, FASTENERS		I	I	I	I	I	I	Page 3-25	
	**	WHEELS		I	I	I	I	I	I	Page 3-25	
	**	STEERING HEAD BEARING		I		I		I		Page 3-25	

*SHOULD BE SERVICED BY AN AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED.
**IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED ONLY BY AN AUTHORIZED HONDA DEALER.

NOTES: 1. SERVICE MORE FREQUENTLY WHEN RIDING IN DUSTY AREAS.
2. SERVICE MORE FREQUENTLY WHEN RIDING IN RAIN OR AT FULL THROTTLE (USA ONLY).
3. FOR HIGHER ODOMETER READINGS, REPEAT AT THE FREQUENCY INTERVAL ESTABLISHED HERE.

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III. MAINTENANCE

SPARK PLUGS

RECOMMENDED SPARK PLUG

NEW

For cold climate below 5°C (41°F)		Standard		For extending high speed riding	
ND	NGK	ND	NGK	ND	NGK
X22ESR-U	DR7ES	X24ESR-U	DR8ES-L	X27ESR-U	DR8ES

Disconnect the spark plug caps.
Clean any dirt from around the spark plug bases.
Remove and diseard the spark plugs.

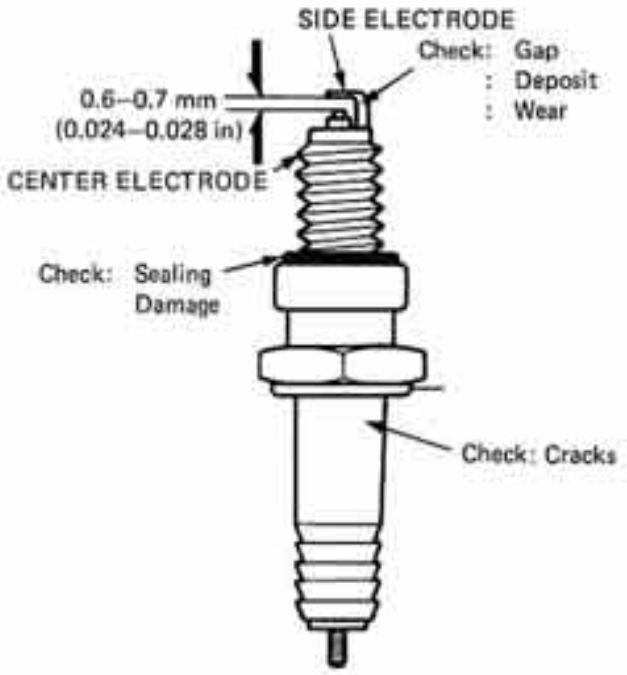
Measure the new spark plug gaps using a wire-type feeler gauge.

SPARK PLUG GAP: 0.6–0.7 mm (0.024–0.028 in)

Adjust by bending the side electrode carefully.

With the plug washer attached, thread the new spark plugs in by hand to prevent cross-threading.

Tighten the spark plugs another 1/2 turn with a spark plug wrench to compress the plug washer.



NEW

Reinstall the spark plug caps.

CAUTION

- *The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.*
- *Never use a spark plug with an improper heat range.*

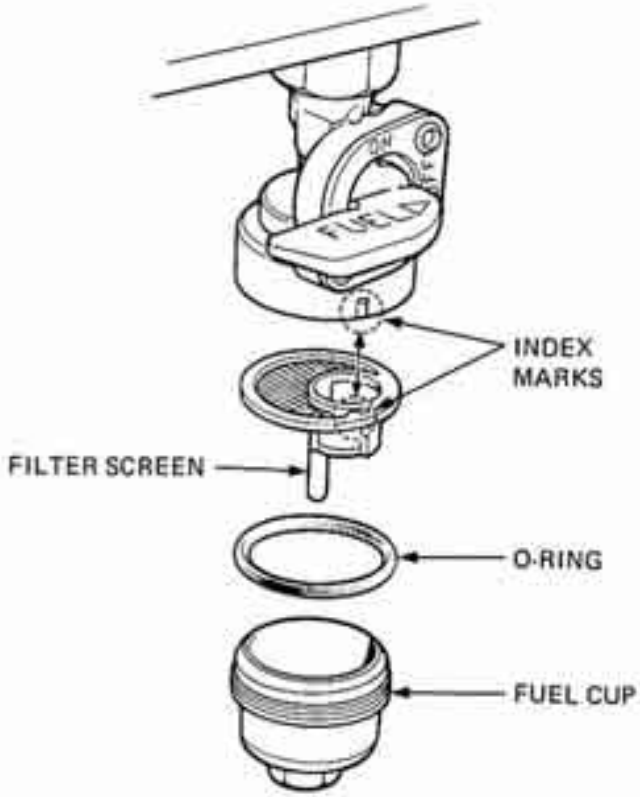
FUEL STRAINER

NEW

Turn the fuel valve OFF.
Remove the fuel cup, O-ring and filter screen, draining the gasoline into a suitable container.

WARNING

Gasoline is flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.



Wash the cup and filter screen in clean non-flammable or high flash point solvent.
Reinstall the screen securely, aligning the index marks on the fuel valve body and filter screen.
Install a new O-ring into the fuel valve body.
Reinstall the fuel cup, making sure the new O-ring is in place. Hand tighten the cup and then torque it to specification.

TORQUE: 3–5 N·m (0.3–0.5 kg-m, 2–4 ft-lb)

NOTE

Do not overtighten the fuel cup.

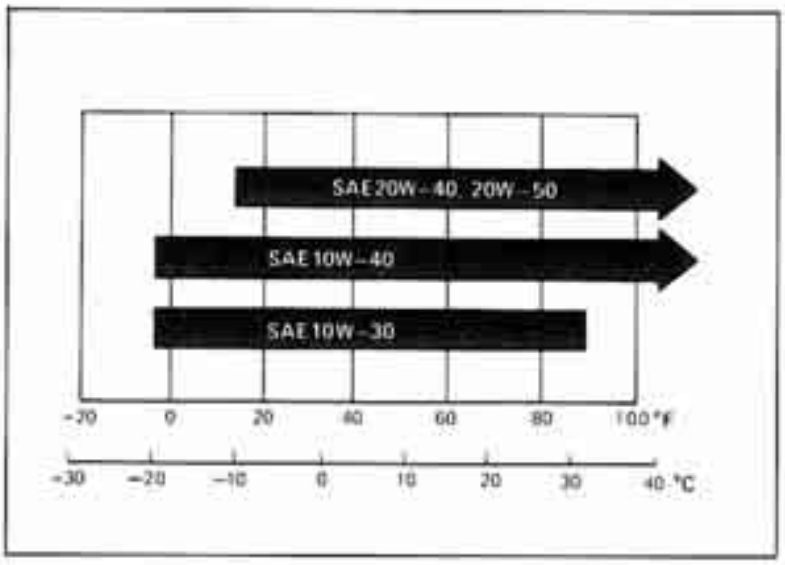
After installing, turn the fuel valve ON and check that there are no fuel leaks.

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ENGINE OIL

Recommended oil:

NEW
- Use HONDA 4-STROKE OIL or equivalent.
- API service classification – SE or SF.
- Viscosity – SAE 10W-40.
- Other oil viscosities may be used when the average temperature in your riding area is within the indicated range.

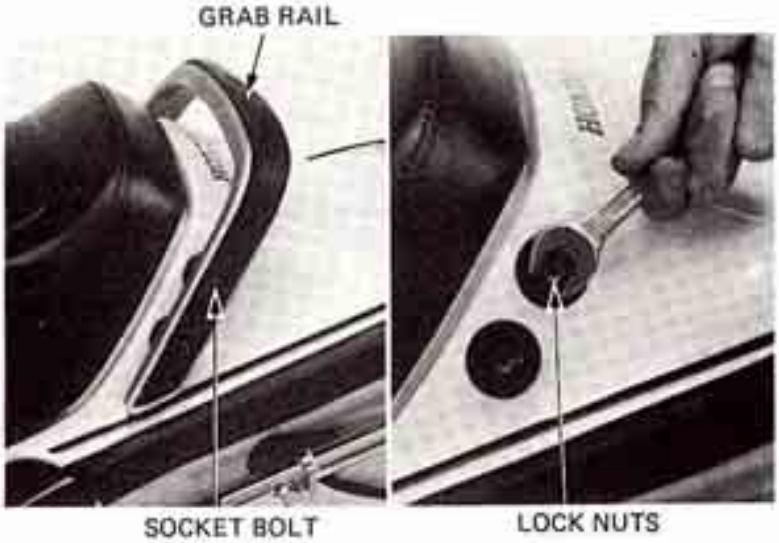


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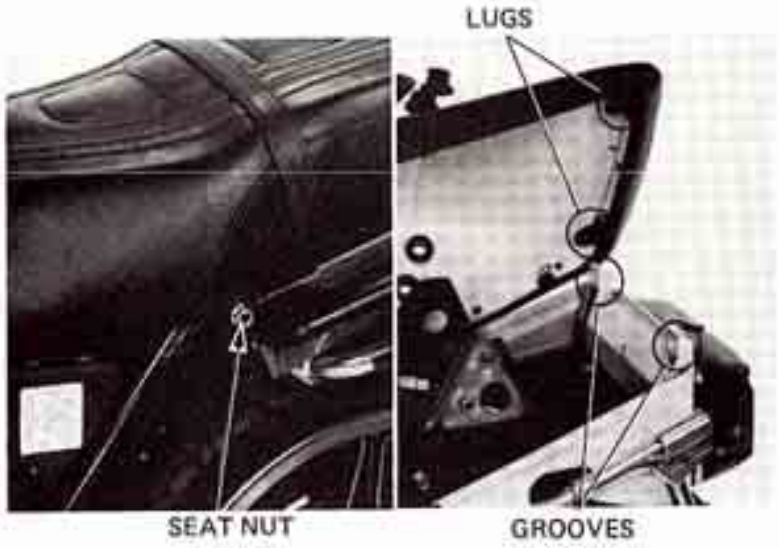
VI. FRAME

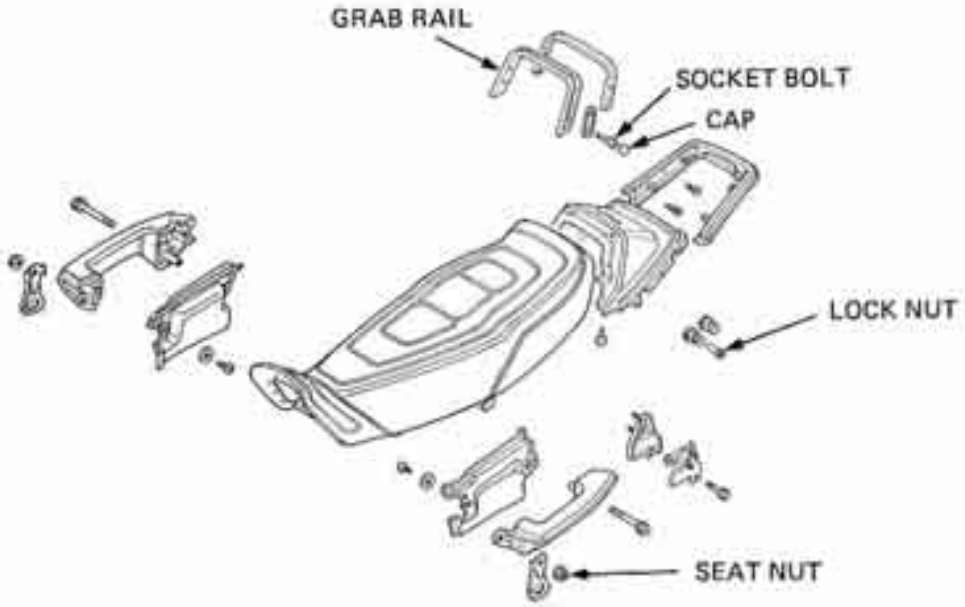
SEAT REMOVAL

Remove the socket bolt caps.
Remove the four socket bolts from the grab rail.
Remove the grab rail.
Remove the grab rail lock nuts.
Remove the seat nuts and pull the seat backwards to remove it.



When reinstalling the seat, align the grooves with the lugs and push the seat firmly into place.
Reinstall the locknuts, the grab rail and the socket bolts and caps. Lift the seat to make sure the latches are secure.

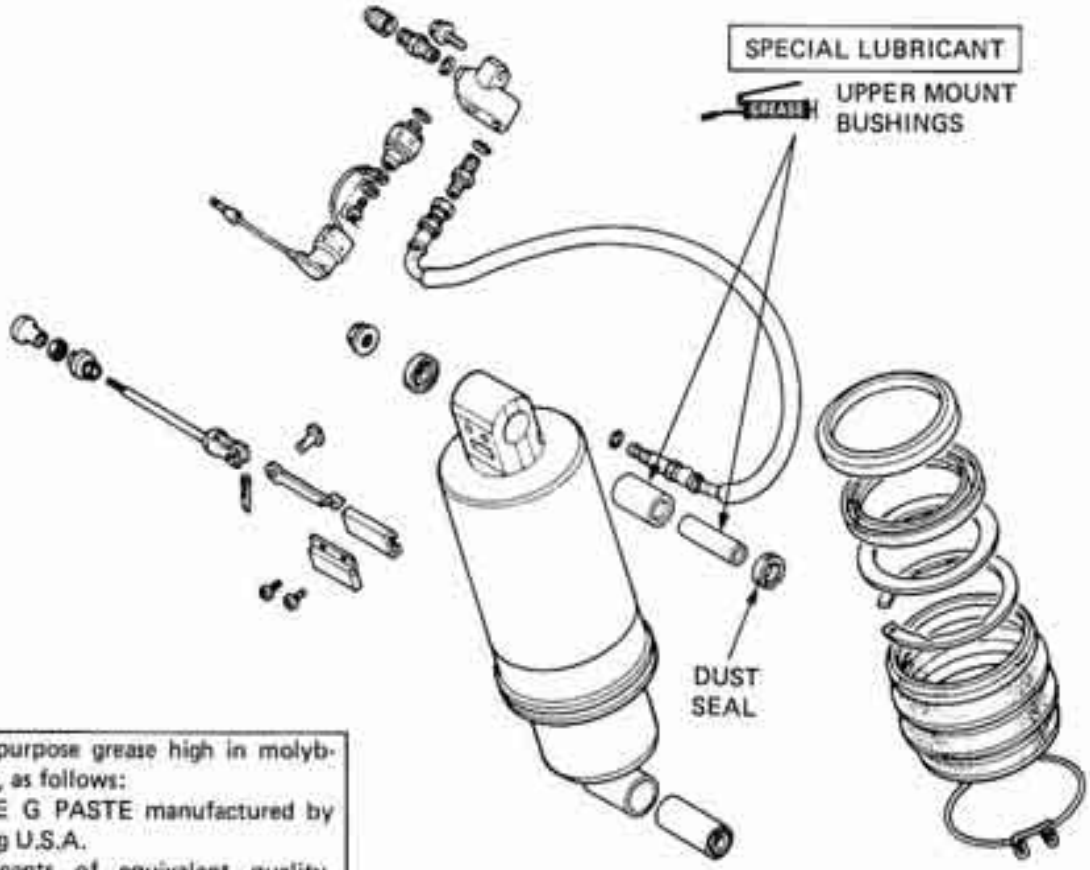




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REAR SUSPENSION

SHOCK ABSORBER ASSEMBLY



NOTE

Apply a multipurpose grease high in molybdenum content, as follows:

- MOLYKOTE G PASTE manufactured by Dow Corning U.S.A.
- Other lubricants of equivalent quality.

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