SERVICE INFORMATION

GENERAL

- · A jack or other support is required to support the vehicle.
- · Adjust toe whenever the tie-rod, knuckle or steering shaft are replaced or removed (page 3-26).
- · Do not twist or bend the brake hose and pipe when serving.
- Use genuine Honda replacement bolts and nuts for all suspension pivots and mounting points.
- · Refer to 16-3 for brake system information.
- · Refer to 22-10 for handlebar switch inspection.
- For electric power steering (EPS) service (page 25-8).
- EPS model only: Perform the Torque Sensor Initialization when you service the following components (page 25-13).

MAINTENANCE LOCATION	REPLACEMENT	REMOVAL/ INSTALLATION
Cables and harness around handlebar	INITIALIZE	INITIALIZE
Handlebar	INITIALIZE	INITIALIZE
Steering shaft and steering shaft bushing	INITIALIZE	INITIALIZE
Steering shaft arm and end nut	INITIALIZE	INITIALIZE
EPS unit	INITIALIZE	INITIALIZE
EPS ECU	INITIALIZE	NO NEED

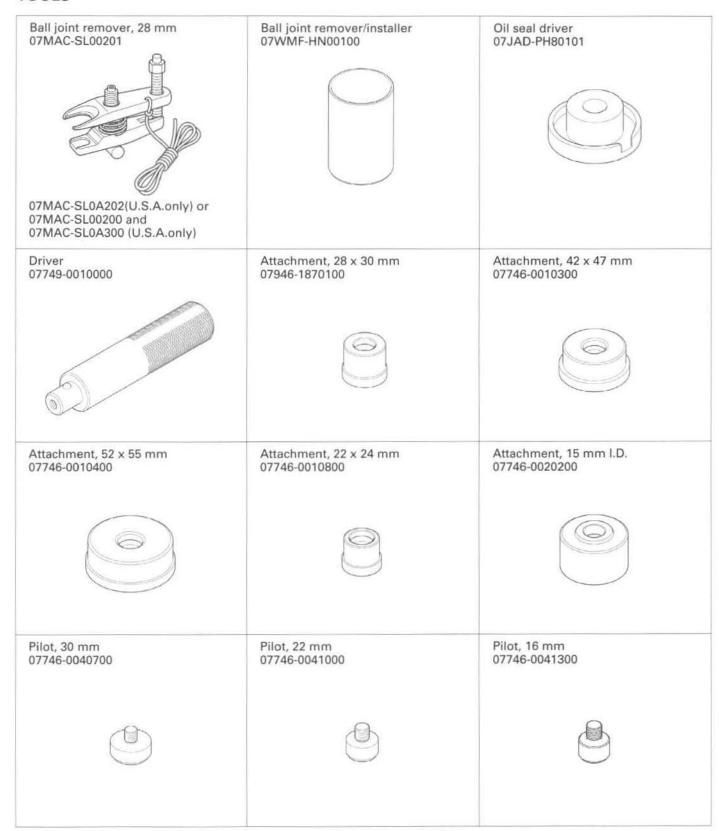
SPECIFICATIONS

ITEM Minimum tire tread depth			STANDARD	SERVICE LIMIT
			-	4.0 mm (0.16 in)
Cold tire pressure	′05 – ′07	Standard	25 kPa (0.25 kgf/cm², 3.6 psi)	-
		Minimum	22 kPa (0.22 kgf/cm², 3.2 psi)	1=1
		Maximum	28 kPa (0.28 kgf/cm², 4.0 psi)	-
		With cargo	25 kPa (0.25 kgf/cm², 3.6 psi)	-
	After '07 except EPS		25 kPa (0.25 kgf/cm², 3.6 psi)	
EPS only			32.5 kPa (0.33 kgf/cm², 4.7 psi)	
Tie-rod distance between the ball joints		ball joints	387 mm (15.2 in)	3-
Toe			Toe-out: 30 ± 15 mm $(1 - 3/16 \pm 9/16 in)$	-
Suspension spring pre-load adjuster standard position (CM type and A type after '08 only)		ljuster standard position only)	Position 2	(-

TORQUE VALUES

Handlebar lower holder nut	39 N·m (4.0 kgf·m, 29 lbf·ft)	Lock nut: replace with a new one
Front wheel nut	64 N·m (6.5 kgf·m, 47 lbf·ft)	
Front wheel hub nut	78 N·m (8.0 kgf·m, 58 lbf·ft)	Castle nut
Front brake disc plate bolt	42 N·m (4.3 kgf·m, 31 lbf·ft)	ALOC bolt: replace with a new one
Shock absorber mounting nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	Lock nut: replace with a new one
Upper arm pivot nut	34 N·m (3.5 kgf·m, 25 lbf·ft)	Lock nut: replace with a new one
Lower arm pivot nut	44 N·m (4.5 kgf·m, 33 lbf·ft)	Lock nut: replace with a new one
Upper and lower arm ball joint nut	29 N·m (3.0 kgf·m, 21 lbf·ft)	Castle nut
Brake hose clamp bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Tie-rod ball joint nut	54 N·m (5.5 kgf·m, 40 lbf·ft)	Lock nut: replace with a new one
Assist headlight case mounting nut	25 N·m (2.6 kgf·m, 19 lbf·ft)	
Steering shaft end nut	108 N·m (11.0 kgf·m, 80 lbf·ft)	
Steering shaft holder bolt	32 N·m (3.3 kgf·m, 24 lbf·ft)	
Front master cylinder holder bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
EPS unit output shaft nut (EPS model)	108 N·m (11.0 kgf·m, 80 lbf·ft)	Lock nut: replace with a new one.
EPS unit mounting bolt (EPS model)	22 N·m (2.2 kgf·m, 16 lbf·ft)	
EPS unit mounting nut (EPS model)	22 N·m (2.2 kgf·m, 16 lbf·ft)	
EPS unit steering shaft flange bolt (EPS model)	60 N·m (6.1 kgf·m, 44 lbf·ft)	ALOC bolt: replace with a new one.
EPS motor flange bolt (EPS model)	20 N·m (2.0 kgf·m, 15 lbf·ft)	

TOOLS





TROUBLESHOOTING

Hard steering

- · Steering shaft holder too tight
- · Damaged steering shaft bearing/bushing
- · Insufficient tire pressure
- · EPS does not assist the steering force (EPS model only)

Steers one side or does not track straight

- · Incorrect wheel alignment
- · Unequal tire pressure
- · Bent tie-rod, suspension arm or frame
- · Worn or damaged knuckle bearing
- · Weak shock absorber

Front wheel wobbling

- · Bent rim
- · Worn or damaged knuckle bearing
- · Faulty tire
- · Wheel hub nut not tightened properly

Soft suspension

- · Weak shock absorber spring
- · Faulty shock absorber damper

Hard suspension

- · Bent shock absorber damper rod
- · Improperly installed suspension arms
- · Faulty suspension arm bushings

Front suspension noise

- · Loose front suspension fasteners
- · Damaged suspension components

HANDLEBAR

REMOVAL

Remove the following:

- four wire bands
- breather hose

- two screws
- throttle housing holder
- throttle housing
- brake light switch connectors
- two bolts
- master cylinder holder

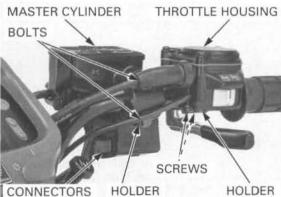
Keep the brake master cylinder upright to prevent air from entering the hydraulic system.

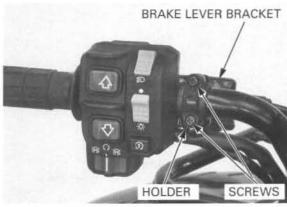
Keep the brake - front brake master cylinder

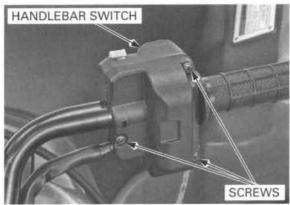
- two screws
- bracket holder
- rear (parking) brake lever bracket

- three screws
- handlebar switch





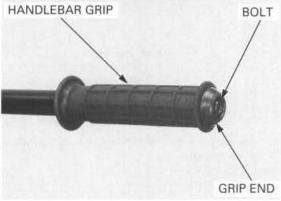




- nut
- choke knob

NUT

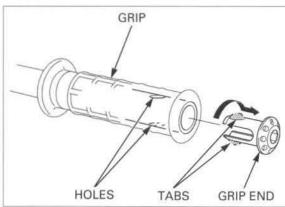
'05 - '07: - bolts - grip ends - handlebar grips



CHOKE KNOB

After '07: - grip ends (turn the grip end to release the setting tabs from the holes in the handlebar and pry it using a screwdriver)

- handlebar grips



- screw
- handlebar upper cover

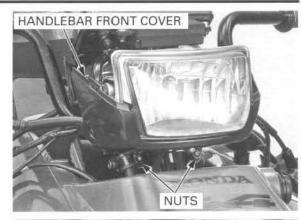


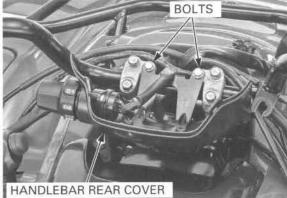
- two nuts
- handlebar front cover

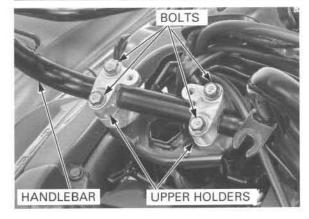


- handlebar rear cover

- four bolts
- handlebar upper holders
- handlebar





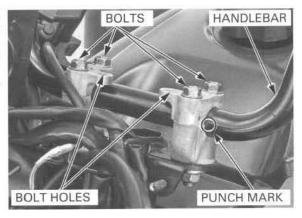


INSTALLATION

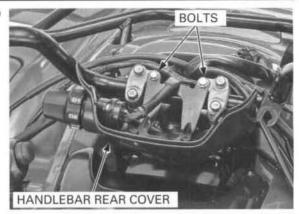
Place the handlebar onto the lower holders and align the punch mark on the handlebar with the top of the lower holder.

Install the upper holders with the bolt holes facing forward.

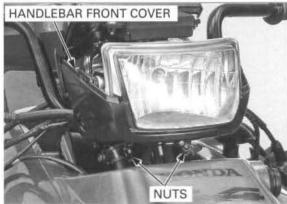
Install the four bolts and tighten the front bolts first, then tighten the rear bolts.



Install the handlebar rear cover and tighten the two bolts.



Install the handlebar front cover and tighten the two nuts.



Install the handlebar upper cover and tighten the screw.



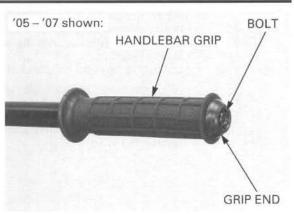
Apply Honda Bond A or Honda Hand Grip Cement (U.S.A. only) to the inside surfaces of the handlebar grips and to the clean surfaces of the handlebar.

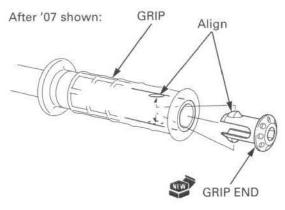
Allow the adhesive to dry for an hour before using.

Wait 3-5 minutes and install the grip. Rotate the grip for even application of the adhesive.

'05 - '07: Install the grip ends and tighten the bolts.

After '07: Install new grip ends by aligning their tabs with the holes in the handlebar.





Install the choke knob and tighten the nut.



Install the handlebar switch and loosely tighten the three screws.

