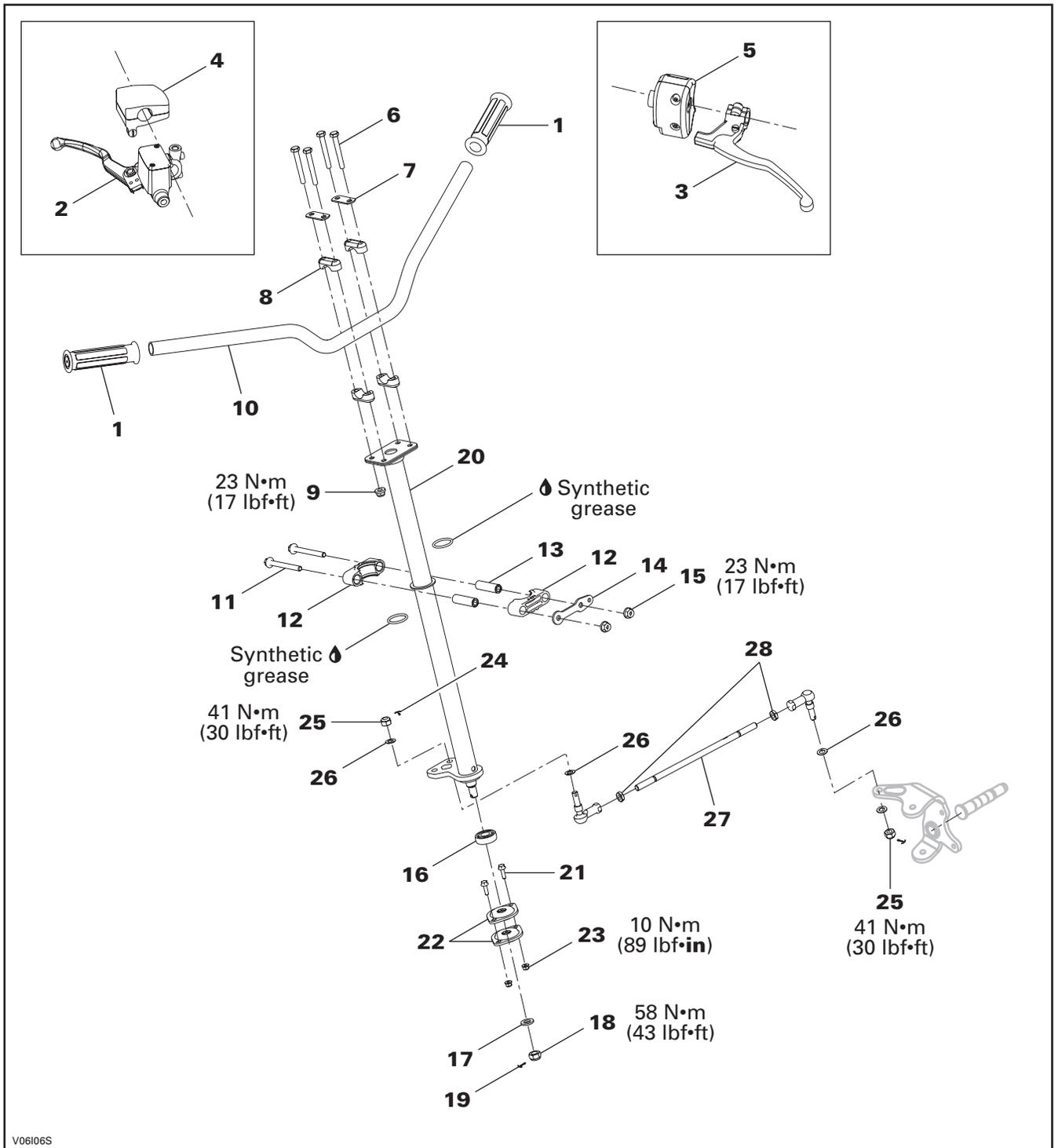


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# STEERING/CONTROL SYSTEMS



## Section 07 STEERING/CONTROL SYSTEMS

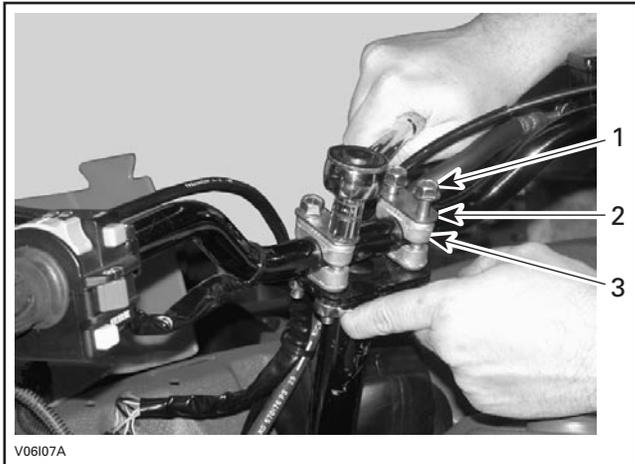
### Subsection 02 (STEERING/CONTROL SYSTEMS)

## HANDLEBAR

### Removal

Remove:

- steering cover (refer to **BODY**)
- handlebar grips **no. 1** by removing grip ends and cutting handlebar grip
- RH handle brake **no. 2** (see below in this section)
- LH handle brake **no. 3** (see below in this section)
- throttle handle **no. 4** and multi-function switch **no. 5** (see below in this section)
- hexagonal screws **no. 6**, reinforcements **no. 7**, steering supports **no. 8** and elastic flange nuts **no. 9**
- handlebar **no. 10**.



1. Handlebar screw
2. Reinforcement
3. Steering support

### Inspection

Inspect the handlebar for damage, cracks or bending, replace if any problems is detected.

### Installation

For the installation, reverse the removal procedure.

## STEERING COLUMN

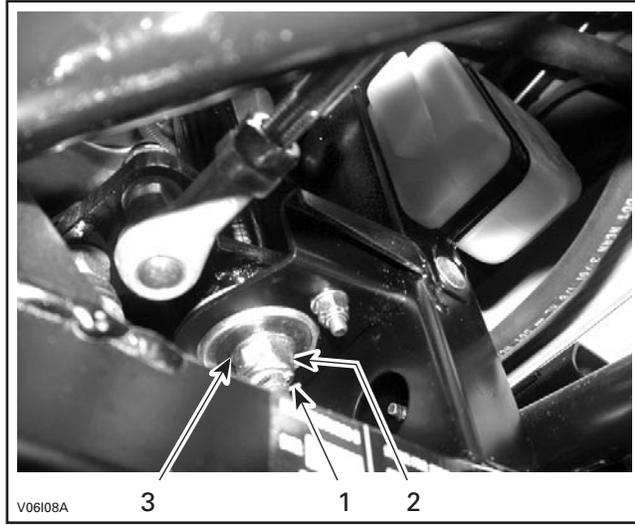
### Removal

Place the vehicle on jack stands.

Remove:

- console and seat (refer to **BODY**)
- fuel tank (refer to **FUEL CIRCUIT**)

- tie-rods on the steering column side (see further in this section)
- hexagonal flange screws **no. 11**, half bushing **no. 12**, bushings **no. 13**, stopper plate **no. 14** and elastic flange nuts **no. 15**
- cotter pin **no. 19**, hexagonal stop nut **no. 18**, flat washer **no. 17**.



1. Cotter pin
2. Elastic flanged nut
3. Flat washer

Remove cotter pin **no. 24** elastic stop nut **no. 25**, washer **no. 26**, to bottom end of steering column **no. 20**.

Pull steering column in a downward motion.

### Inspection

Inspect steering column for damage, cracks or bending, replace if any problems is detected.

### Installation

For the installation, reverse the removal procedure. Install a new cotter pins. Both ends of cotter pin must be folded.

## TIE-ROD

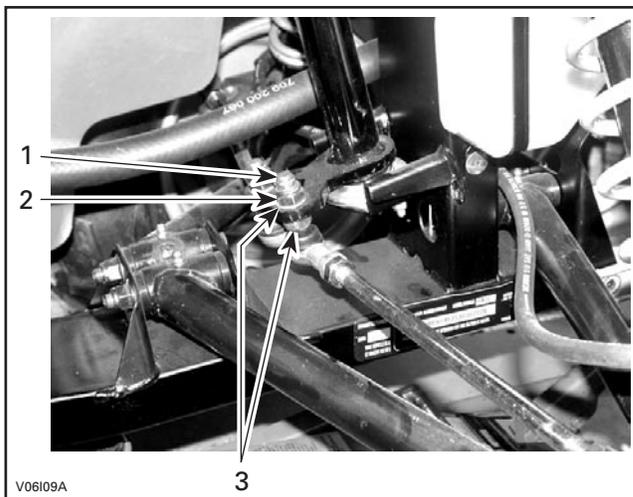
### Removal

Place the vehicle on jack stands and remove front wheel(s).

## Section 07 STEERING/CONTROL SYSTEMS

### Subsection 02 (STEERING/CONTROL SYSTEMS)

Remove cotter pin no. 24 elastic stop nut no. 25, washer no. 26, and tie-rod assembly no. 27.



1. Cotter pin
2. Elastic stop nut
3. Washer

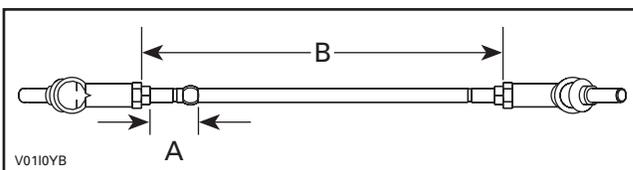
### Inspection

Inspect ball joint ends for wear or looseness, if excessive, replace.

### Installation

For the installation, reverse the removal procedure. Pay attention to the following details.

At the time of the reinstallation or the new tie-rod(s) installation, screw threaded end of tie-rod into ball joint. The maximum length for tie-rod groove to ball joint end must be the value **A** in the following chart:



MODEL		A	B
All	mm	29 ± 2	217 ± 2
	in	1-13/32 ± 0.078	8-17/32 ± 0.078

**NOTE:** Torque the ball joint lock nut no. 28 to 22 N•m (16 lbf•ft).

Torque elastic stop nut to 41 N•m (31 lbf•ft).

Install a new cotter pin. Both ends of cotter pin must be folded.

### Toe Adjustment

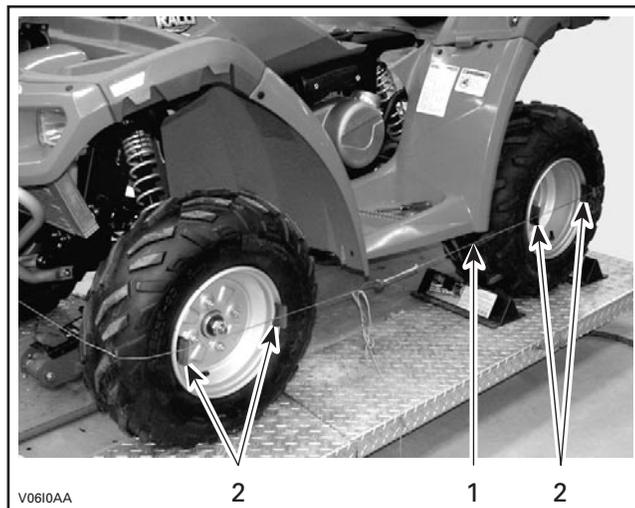
Place vehicle on level surface.

Check that handlebar is straight.

Check pressure in each tires. Always follow recommended pressure.

Place a rope around the vehicle and using an elastic, link both ends together.

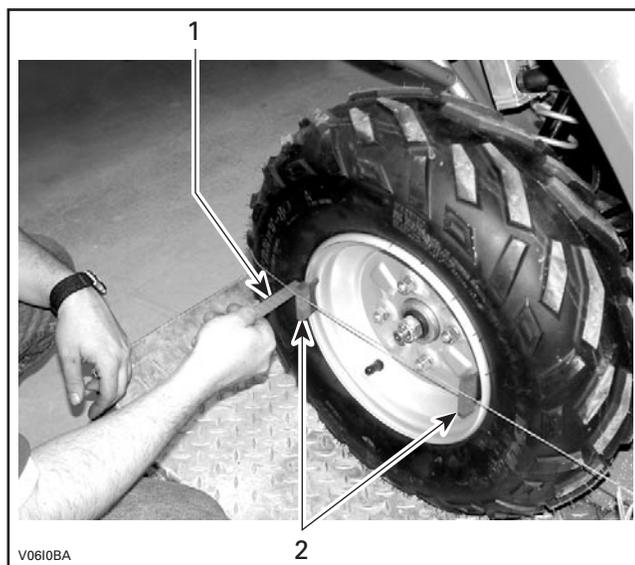
Install spacers on front and rear rims. These spacers will prevent the rope from touching tire.



1. Rope
2. Spacers

**NOTE:** Some items can be used like spacers, the magnet spacer are recommended.

The rope must be place at the center of the wheels. Do not place rope on tire threads.



1. Ruler
2. Spacers

## Section 07 STEERING/CONTROL SYSTEMS

### Subsection 02 (STEERING/CONTROL SYSTEMS)

Measure the distance between the front edge of the front rim and the rope and the distance between the rear edge of the front rim and the rope.



TYPICAL

The perfect front toe-out adjustment is 0 mm  $\pm$  3 mm (0 in  $\pm$  .118 in) each side.

Adjust alignment with tie-rod.

## STEERING COLUMN BEARING

### Removal

Place vehicle on jack stands.

Remove fuel tank (refer to **FUEL CIRCUIT**).

Unscrew bolts no. 11.

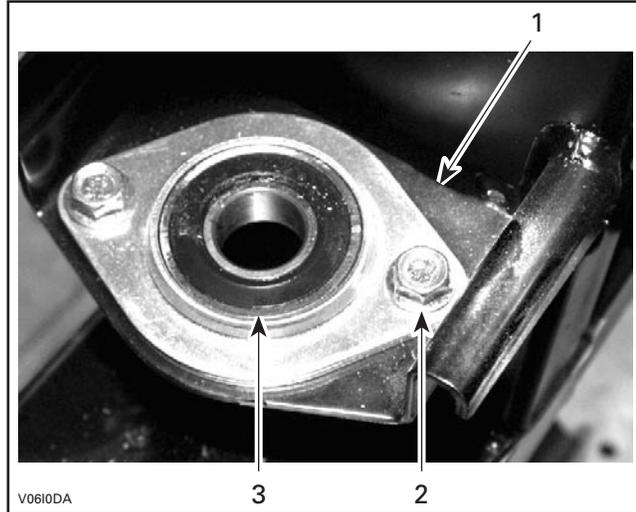
Separate tie-rods no. 27 from steering column no. 20. Refer to TIE-ROD (earlier in this section).

Remove the cotter pin no. 19, elastic nut no. 18 and washer no. 17.

Lift up the steering column until the end of steering column is out of bearing.

Remove screws no. 21 and nuts no. 23. Lift up the upper bearing flange no. 22 to reach the bearing.

Remove bearing no. 16.



1. Frame support
2. Screw
3. Bearing flange

### Installation

For installation, reverse the removal procedure. Pay attention to the following details.

Place flanged collar toward outside.

**NOTE:** Install both bearing flanges on top of frame support.

Install screw no. 21 and nut no. 23.

Install a new cotter pin. Both ends of cotter pin must be folded.

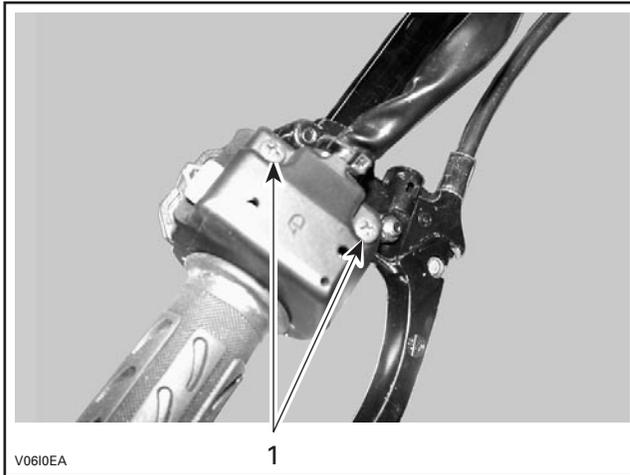
## MULTI-FUNCTION SWITCH

### Test

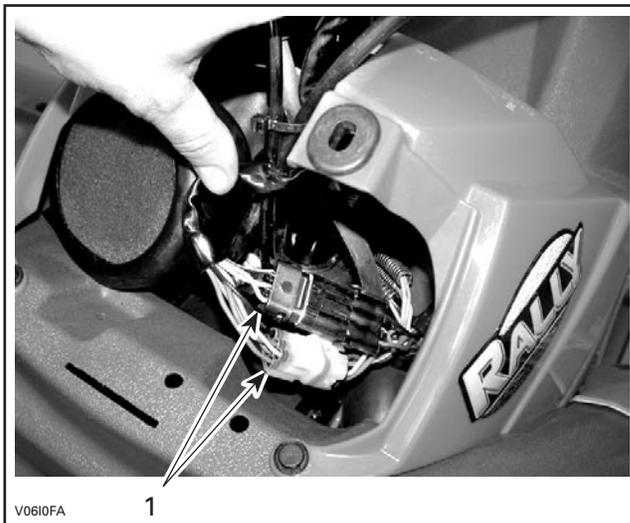
Refer to **INSTRUMENTS AND ACCESSORIES**.

## Removal

- dash board cover and cup (refer to BODY)
- tie-rop
- socket screws
- disconnect connectors. The connectors are located under the dash board cover.



1. Multi-switch socket screw



1. Unplug multi-switch connectors

Separate multi-function switch no. 5 from handlebar no. 10.

## Installation

For installation, reverse the removal procedure.

## THROTTLE HANDLE

### Removal

Remove:

- throttle cover screws
- throttle clip screws.

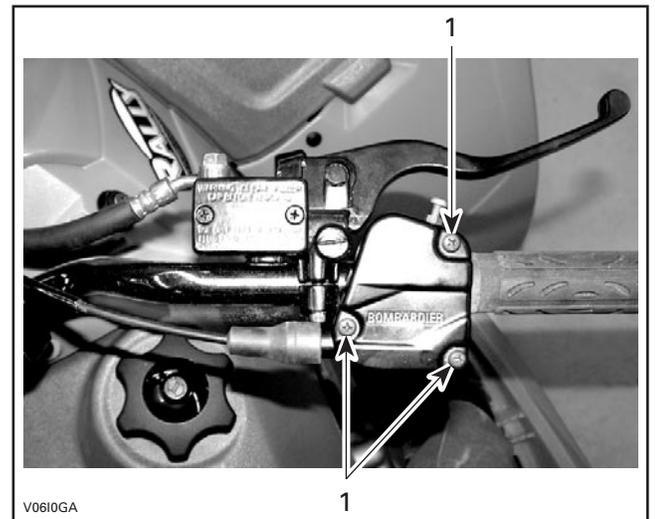
Move back rubber cap.

Tighten adjustment screw to its maximum.

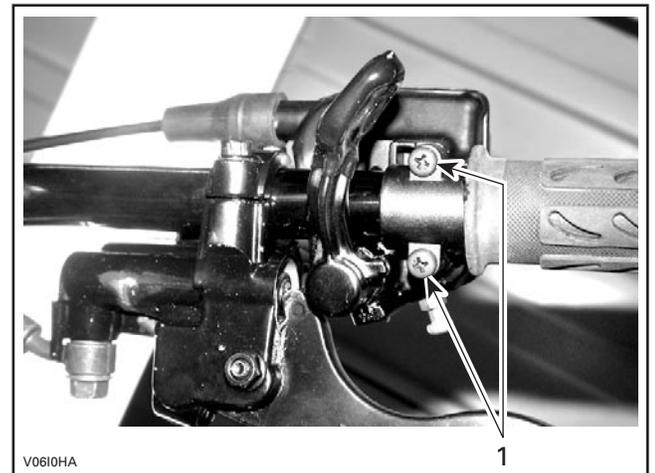
Remove throttle cable from housing.

Slide cable in clip slot and remove the end of the cable from clip.

Remove cable.



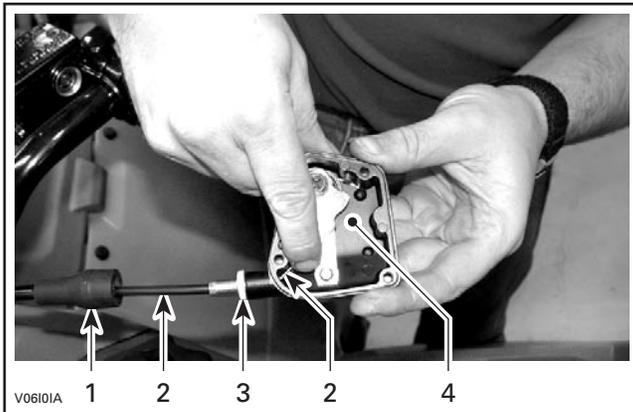
1. Throttle cover screws



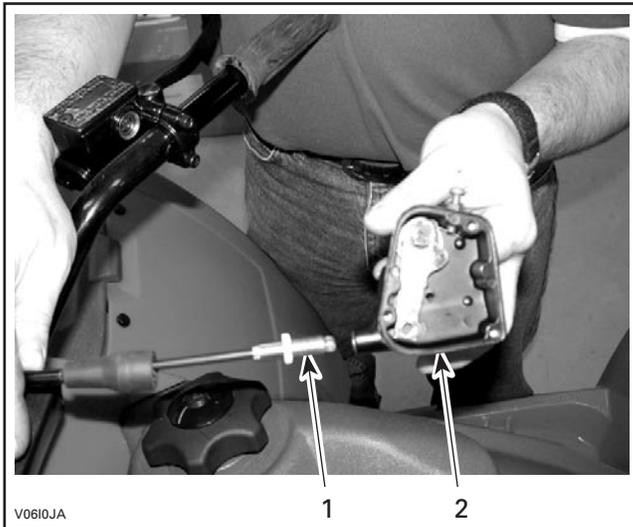
1. Throttle clip screws

## Section 07 STEERING/CONTROL SYSTEMS

### Subsection 02 (STEERING/CONTROL SYSTEMS)



1. Rubber cap
2. Throttle cable
3. Adjustment screw
4. Throttle cable housing



1. Throttle cable
2. Throttle housing

Separate throttle handle **no. 4** from handlebar **no. 10**.  
Remove throttle cable from housing.

### Installation

For installation, reverse the removal procedure.  
Refer to **CARBURETOR** for adjustment procedure.

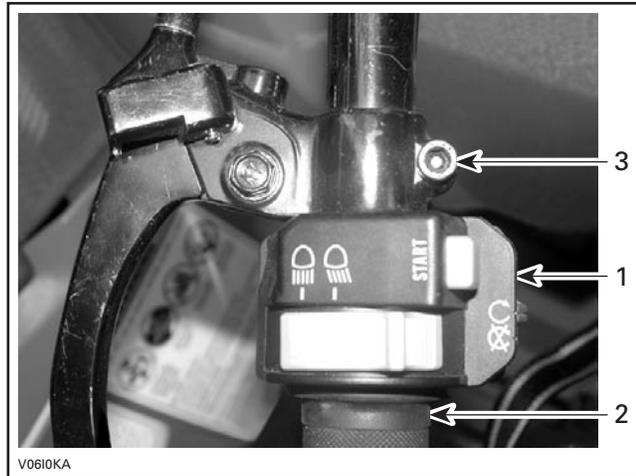
### Lubrication

Refer to **CARBURETOR**.

### LH HANDLE BRAKE

#### Removal

Remove multi-switch.  
Remove handlebar grip.  
Remove cable brake screw.



1. Multi-switch
2. Handlebar grip
3. LH brake screw

Separate handle brake **no. 3** from handlebar **no. 10**.  
If necessary, unplug connectors under steering cover cut locking tie.

### Installation

For installation, reverse the removal procedure.

## RH HANDLE BRAKE

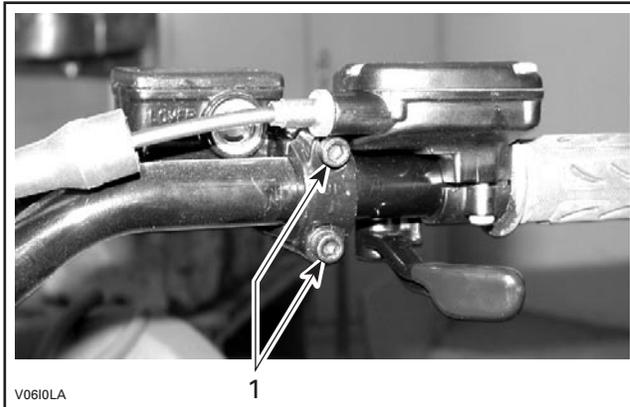
### Removal

Remove screws.

Remove RH handle brake.

### Cable Removal

Refer to **HYDRAULIC BRAKES** for specifics instructions.



1. RH handle brake screws

Separate handle brake **no. 24** from handlebar **no. 10**.

On some vehicles, unplug connectors under steering cover and cut locking tie.

### Hose Removal

Refer to **HYDRAULIC BRAKES** for specifics instructions.

### Installation

For installation, reverse the removal procedure.