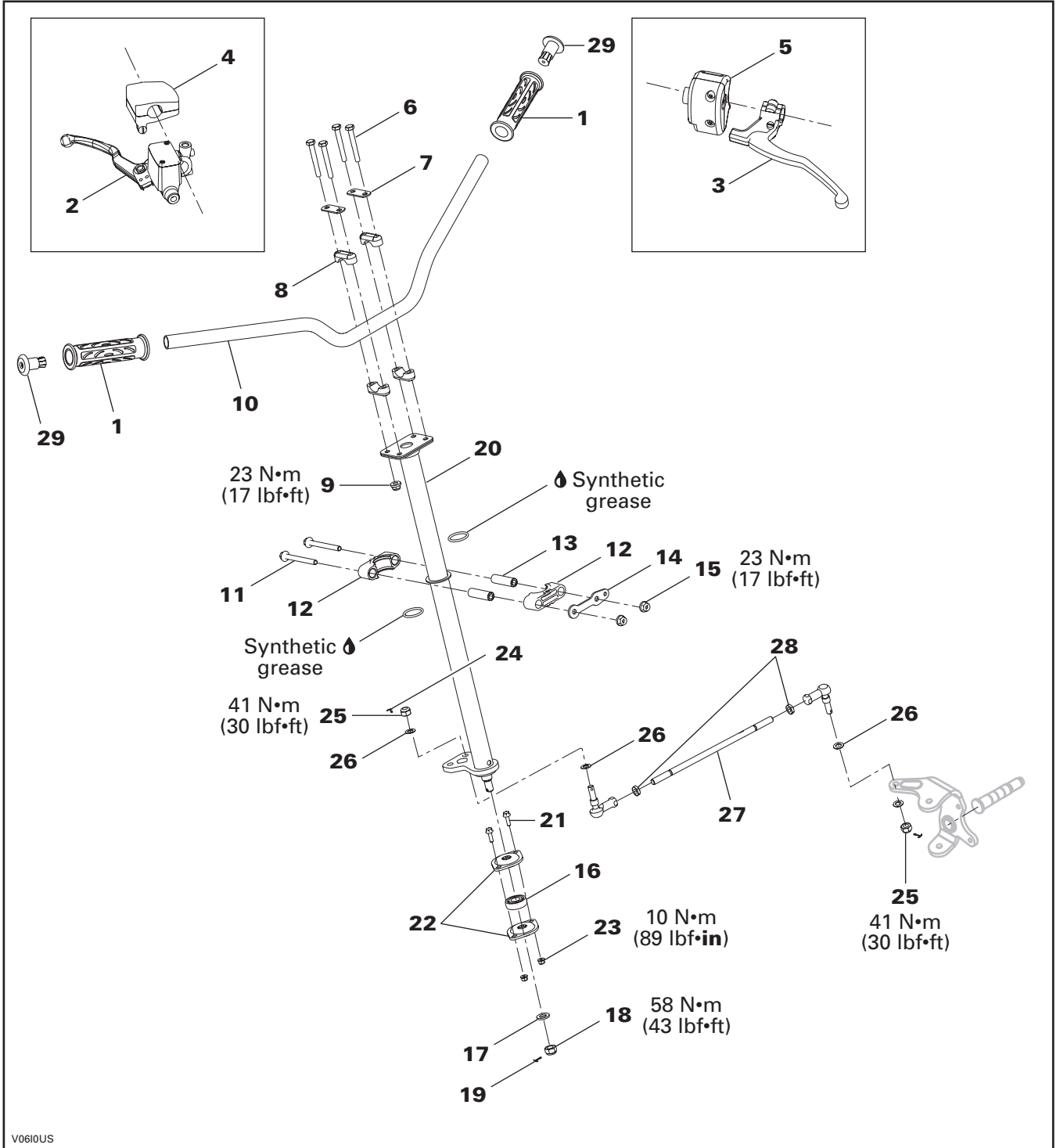


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# STEERING SYSTEM



## Section 07 STEERING SYSTEM

### Subsection 02 (STEERING SYSTEM)

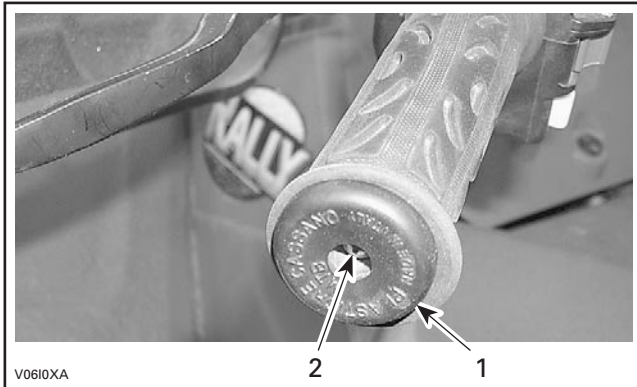
## HANDLEBAR

### Removal

**NOTE:** This procedure must be used only when handlebar has to be replaced.

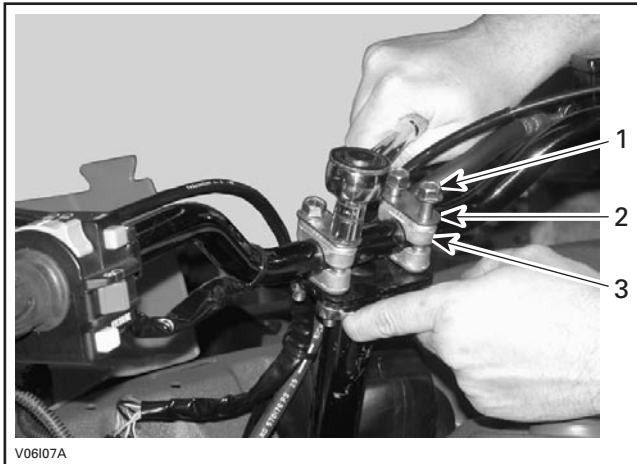
Remove:

- steering cover (refer to BODY)
- handlebar grips **no. 1** by removing grip ends **no. 29** and cutting handlebar grip (if necessary)



1. Grip end
2. Screw

- RH handle brake **no. 2** (see below in this section)
- LH handle brake **no. 3** (see below in this section)
- throttle handle **no. 4** (see below in this section)
- 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 problem is detected.

### Installation

For the installation, reverse the removal procedure. Install new handlebar grip.

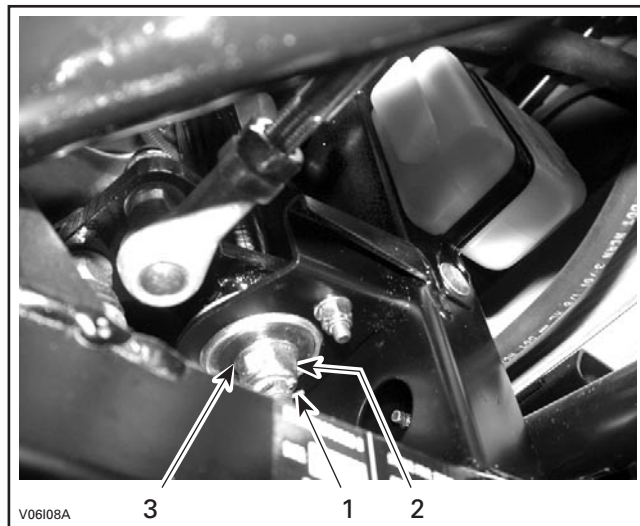
## STEERING COLUMN

### Removal

Place the vehicle on jack stands.

Remove:

- steering cover
- hexagonal screws **no. 6**, reinforcements **no. 7**, steering supports **no. 8** and elastic flange nuts **no. 9**
- handlebar
- 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**.

## Section 07 STEERING SYSTEM

### Subsection 02 (STEERING SYSTEM)

Twist and pull steering column aside of frame in a downward motion.

### Inspection

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

### Installation

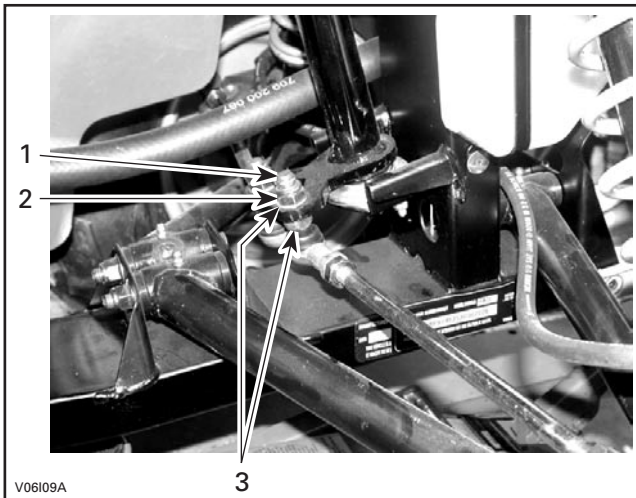
For the installation, reverse the removal procedure. Install a new cotter pins. Both ends of cotter pin must be folded.

## TIE-ROD

### Removal

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

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



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

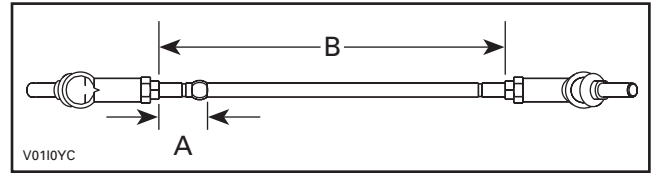
### Inspection

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	32 ± 2	217 ± 2
	in	1-1/4 ± 1/16	8-17/32 ± 1/16

**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

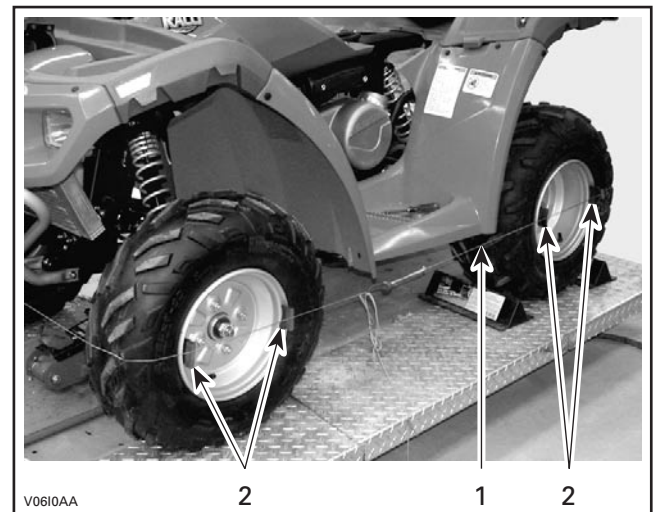
Place vehicle on level surface.

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.



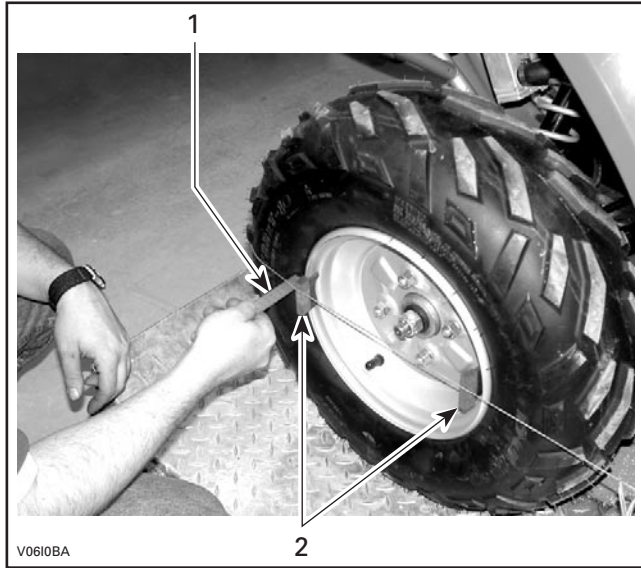
1. Rope
2. Spacers

**NOTE:** Different items can be used as spacers, like magnets (recommended).

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

## Section 07 STEERING SYSTEM

### Subsection 02 (STEERING SYSTEM)



1. Ruler
2. Spacers

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 ± 3 mm (0 in ± .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.

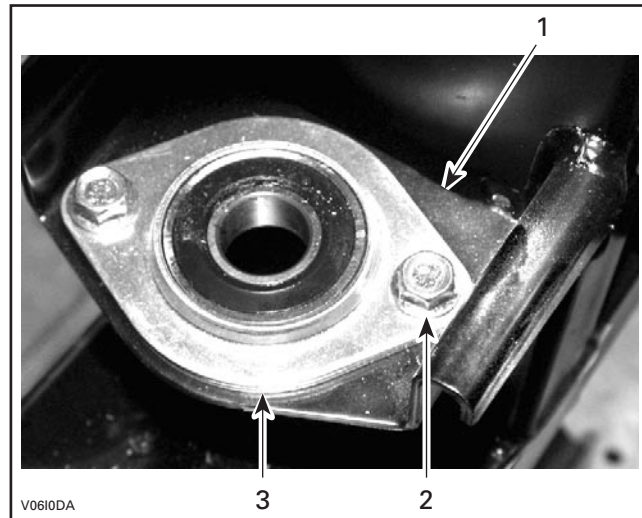
Separate tie-rods no. 27 from steering column no. 20. Refer to TIE-ROD (earlier in this section).

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 bearing flange collar toward outside.

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

Install screw no. 21 and nut no. 23.

Install new cotter pins. Both ends of cotter pins must be folded.

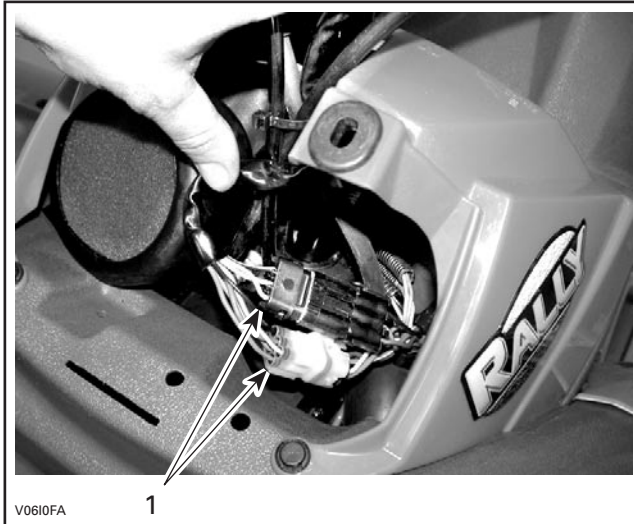
## MULTI-FUNCTION SWITCH

### Test

Refer to INSTRUMENTS AND ACCESSORIES.

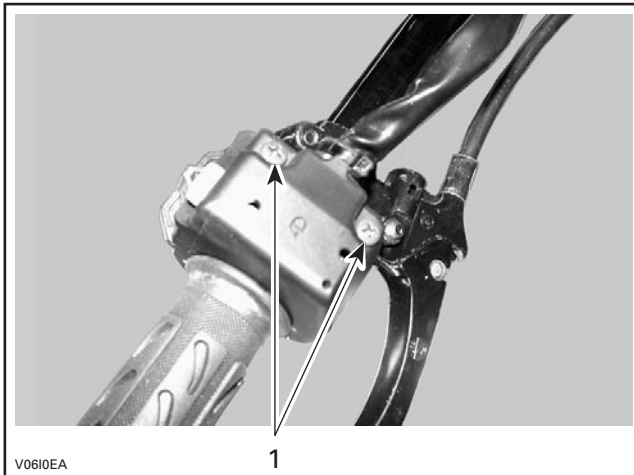
## Removal

- console cover and cup (refer to BODY)
- disconnect connectors located under console cover.



1. Unplug multi-function switch connectors

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



1. Multi-function switch screws

**NOTE:** Some locking ties may have to be cut and replaced.

## Installation

For installation, reverse the removal procedure.

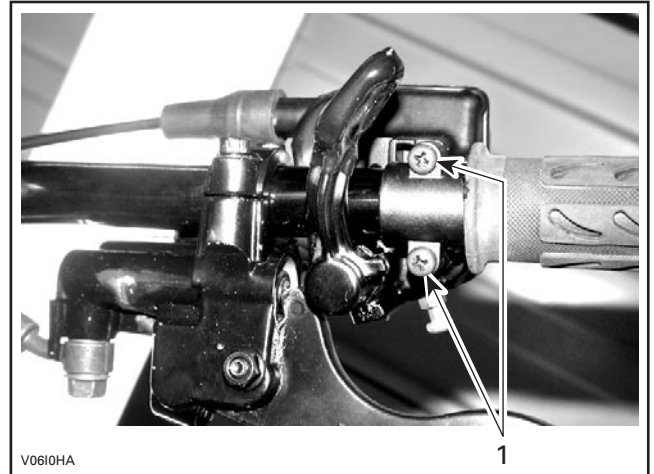
## THROTTLE HANDLE

### Removal

For handlebar replacement

Unscrew throttle clamp.

Put throttle handle aside.

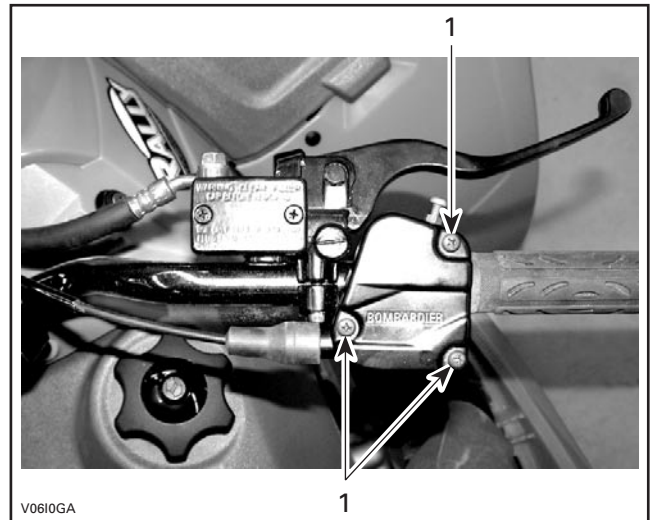


1. Throttle clamp screws

For throttle handle replacement

Remove

- throttle housing cover



1. Throttle cover screws

Move back rubber cap.

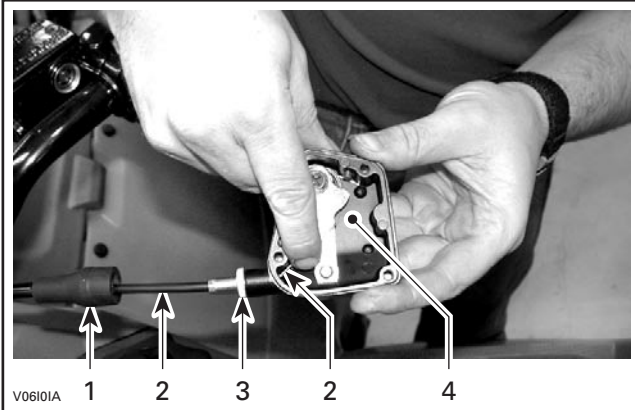
Tighten adjustment screw to its maximum.

Using long nose pliers, remove throttle cable end from throttle lever.

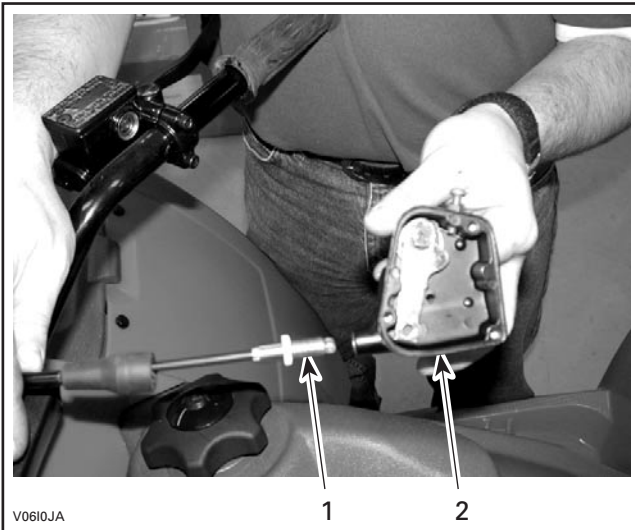
## Section 07 STEERING SYSTEM

### Subsection 02 (STEERING SYSTEM)

Unscrew throttle adjustment screw completely and remove cable.



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



1. Throttle cable
2. Throttle housing

Unscrew throttle clamp to separate throttle handle no. 4 from handlebar no. 10.

### Installation

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

### Cable Lubrication

Refer to CARBURETOR.

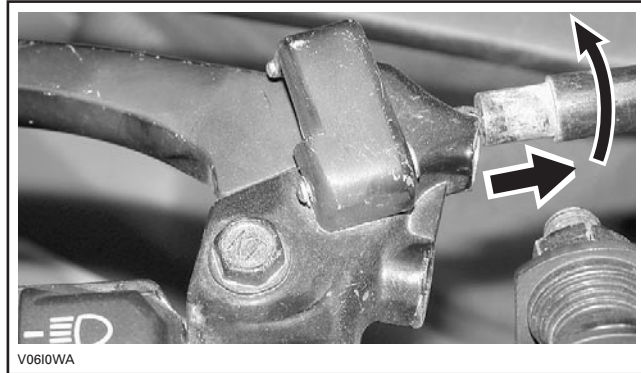
## LH HANDLE BRAKE

### Removal

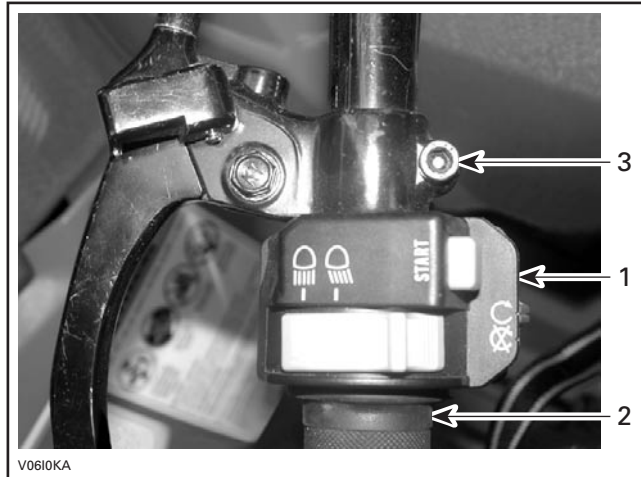
Separate multi-function switch.

Remove handlebar grip no. 1 by removing grip ends no. 29 and cutting handlebar grip (if necessary).

Remove brake cable from handle. It may be necessary to release cable tension from rear caliper. Refer to BRAKES for procedure.



Remove brake lever screw.



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

Remove handle brake no. 3 from handlebar no. 10.

If brake cable has to be removed, it may be necessary, to unplug connectors under steering cover and cut locking tie. Remember cable routing to install new cable properly.

### Installation

For installation, reverse the removal procedure. Install new handle grips if old ones have been cut.

## RH HANDLE BRAKE

### Removal

#### For handlebar replacement

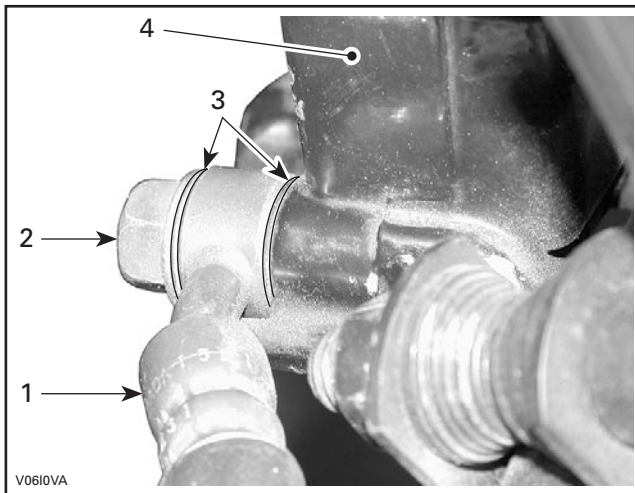
Unscrew RH brake handle clamp.

Put RH brake handle aside.

#### For handle brake housing replacement

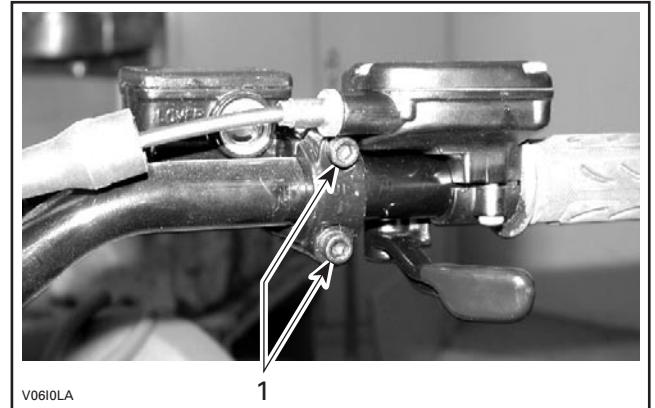
Drain brake system (Refer to BRAKES) section.

Unscrew banjo fitting and discard sealing rings.



1. Banjo fitting
2. Screw
3. Sealing rings
4. Brake oil reservoir

Unscrew screws and clamp then remove RH handle brake.



1. RH handle brake screws

### Hose Removal

Refer to BRAKES for specific instructions.

### Installation

For installation, reverse the removal procedure.

**NOTE:** When reinstalling banjo fitting on brake handle, always replace sealing rings with new ones.