INSTRUCTION SHEET

Buell® AMERICAN MOTORCYCLES

-J00984 ***Kit Number 45989-96Y*** REV.8-25-97

FRONT FORK SUSPENSION SPRING KIT

General

The front fork consists of two telescoping slider/slider tube assemblies. Each assembly has an internal compression spring which supports the forward weight of the vehicle and rider. The compression spring extends and retracts to cushion the ride over rough or irregular road surfaces. A damping mechanism controls the telescoping action of each slider/slider tube assembly.

This kit contains two front fork suspension springs for replacement on the S1, S3 and S3T models only.

NOTE

A Service Manual for your motorcycle is available from your Buell Dealer.

Use appropriate Service Manual procedures, along with procedures below to replace suspension springs.

Installation

REMOVAL OF ORIGINAL FORK SPRINGS

1. Raise front wheel off floor using FRONT WHEEL SUPPORT STAND (Part No. B-41395) and LIFT ADAPTER (Part No. B-42577).
2. Turn the adjuster assembly to full slow position. (Completely clockwise)
3. Remove fork cap metric, O-ring and washer.
4. Reduce the spring pressure and remove both retaining clips.
5. Remove original fork springs.

ASSEMBLY OF NEW FORK SPRINGS

NOTE

Before installing the following components, wipe off any excess oil from the springs and spring collars.

1. Install the new fork springs.
2. Pull the damper assembly above the fork spring and place steel washers and preload shim(s) on top of the spring.
3. Installing the retaining clips requires two people. have one person compress the spring, steel washer and preload shim(s), while the second person installs both of the retaining clips. Inspect the O-rings and replace as necessary.
4. Install the washers, O-rings and fork cap metric.
5. Set the rebound and compression adjusters to the desired settings.
6. Remove the front wheel stand.

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