

INSTRUCTION SHEET

Buell
AMERICAN MOTORCYCLES

-J01994

Part Number 28017-00Y

REV. 5-8-00

CARBURETOR KIT

General

The following instructions describe how to install the Carburetor Kit to 1998 Lightning S1, White Lightning S1W, Thunderbolt S3/S3T and 1998-2000 Cyclone M2 Models. For complete procedure see the appropriate SERVICE MANUAL.

NOTE

A Service Manual is available from your Buell Dealer.

This kit replaces the 27423-98Y carburetor. The **new** carburetor is not sold separately, the kit must be ordered.

Kit Contents:

QTY	DESCRIPTION	PART NO.
1	Carburetor	Not Sold Separately
1	Plug	28016-00Y

Installation

⚠ WARNING

Gasoline is extremely flammable and highly explosive. Do not smoke or allow open flame or sparks when refueling or servicing fuel system. Inadequate safety precautions could result in death or serious injury.

1. Turn fuel supply valve OFF.
2. Remove air cleaner cover and backplate. See Section 4 of appropriate service manual for procedure.
3. Cut cable strap holding remote idle adjuster to frame.
4. Remove air cleaner support ring.
 - a. Detach rear breather hose from rear cylinder breather bolt.
 - b. Loosen rear breather bolt.
 - c. Slide air cleaner support ring upward to remove.

NOTE

Air cleaner support ring fits around rear breather bolt. Fitting on rear breather bolt may not clear the frame if bolt removal is attempted. Do not remove the rear breather bolt unless absolutely necessary.

5. Disconnect fuel hose from carburetor. Discard fuel hose clamp.
6. Disconnect V.O.E.S. hose from carburetor.
7. Remove throttle cable clamps (if equipped).
8. Detach enrichener cable from bracket.
9. Add freeplay to throttle cable adjusters (metric). Remove throttle cables at carburetor.

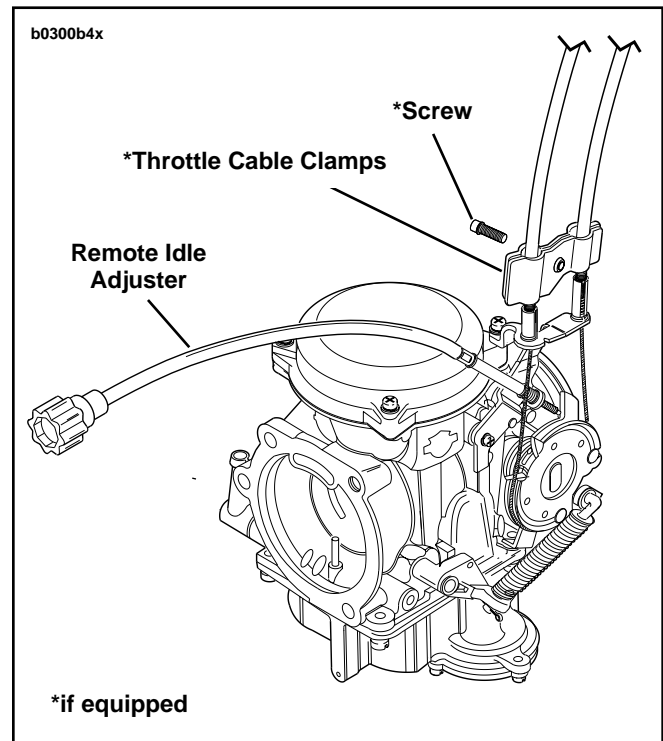


Figure 1. Carburetor Assembly

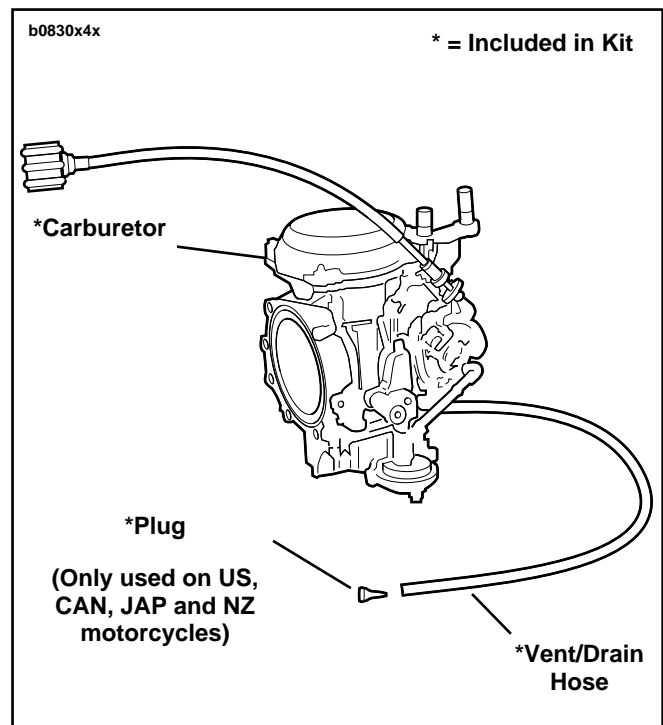


Figure 2. Carburetor and Plug (DOM Only)

10. Disconnect carburetor drain hose from drain fitting. On California models, disconnect canister vent hose.

NOTE

For HDI configured motorcycles (England, Europe and Australia) discard the plug provided with the kit. The carburetor will be installed without it. Go to step 12. For Domestic (US, Canada, New Zealand and Japan) configured motorcycles, the drain plug must be installed. Go to step 11.

CAUTION

Installation of plug in HDI-configured motorcycles may result in engine damage. Failure to install plug in domestic models will result in poor performance. Do not install plug to HDI models. Install plug on domestic models.

11. **Domestic models (US, CAN, NZ and JAP) only:** See Figure 2. Install plug provided in kit to **new** carburetor drain hose. Push plug into place.
12. Attach throttle cables.
 - a. Install idle control cable into longer, inboard cable guide on carburetor.
 - b. Install throttle control cable into shorter, outboard cable guide on carburetor.
 - c. Apply LOCTITE THREADLOCKER 243 (Blue) to threads of throttle cable clamp screw and install throttle cable clamps (if equipped) with screw. Tighten screw to 15-18 in-lbs (1.7-2.0 Nm).
13. Attach hoses to carburetor.
 - a. Connect drain hose.
 - b. Connect V.O.E.S. hose.
 - c. California Models Only: Connect canister vent hose.

NOTE

The fit between the carburetor and the seal ring is tight. For ease of installation, lubricate the mating surfaces, carburetor body and seal ring with liquid dish soap or tire mouting lube prior to assembly.

14. Lubricate only the inside surface of seal ring that will be in contact with the carburetor. Also apply a light coat of lubricant to the spigot of the carburetor body. Push carburetor body into seal ring.
15. Connect fuel hose to carburetor with **new** clamp using HOSE CLAMP PLIERS (Part No. HD-41137).
16. Install enrichener cable on ignition key switch bracket and adjust. See ENRICHENER CONTROL in Section 4 of appropriate Service Manual for procedure.

WARNING

Throttle cables must not pull tight when handlebars are turned fully to left or right fork stops. Be sure wires and throttle cables are clear of fork stops at steering head so they will not be pinched when fork is turned against stops. Steering must be smooth and free with no binding or interference. Anything interfering with carburetor operation may cause loss of vehicle control which could result in death or serious injury.

17. Adjust throttle cables and check idle speed. See Section 1 or 4 of appropriate Service Manual for procedure.
18. Cable strap remote idle adjuster to frame tube.
19. Install air cleaner assembly. See Section 4 of appropriate Service Manual for procedure.
20. Inspect for leaks. Start motorcycle and inspect again for leaks.

NOTE

To drain fuel from float bowl on domestic motorcycles, remove drain plug. Reinstall plug when complete. Failure to reinstall plug on domestic motorcycles will result in poor performance.