



INSTALLATION INSTRUCTIONS
AIS Removal Kit
2006/7 WR250F GYT-5UM93-69-01
2005/2006 WR450F GYT-5TJ93-69-00



⚠ WARNING

Please read and understand these instructions completely before installation to avoid possible injury to yourself, or damage to the accessory or vehicle.

CAUTION:

- This installation should be performed by an authorized Yamaha dealer or a qualified mechanic. Some components require information from the model's service manual for proper installation or adjustment. Be sure to have the service manual on hand, if necessary, before proceeding with the installation.
- Alteration of emission-related components constitutes tampering under Federal and State laws and can lead to substantial fines and penalties if used other than in closed-course competition.
- Engine-related competition parts are intended for closed-course racing applications only.

DEALER:

These instructions contain important information for future reference and *must* be given to the customer.

WARRANTY INFORMATION:

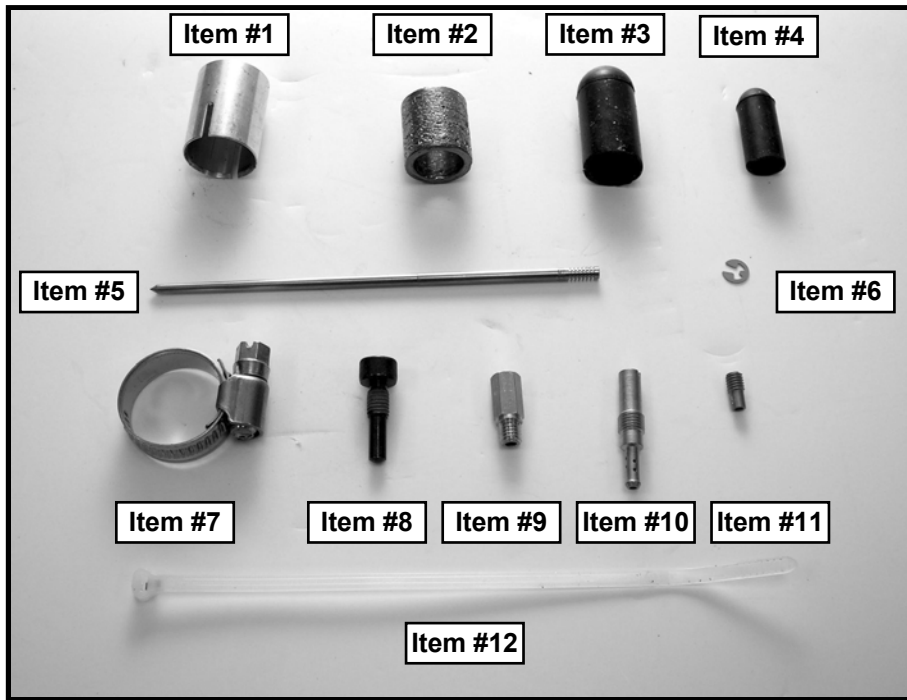
- Genuine Yamaha GYTR components are covered by a 90-day warranty against defects in material or workmanship. Labor for replacement of defective components is not covered. See your Yamaha dealer for a copy of the warranty statement.
- The Limited Warranty provided with new Yamaha vehicles has exclusions for certain failures, including those caused by competition or racing use (except YZ and WR motorcycle models) as well as by abnormal strain or abuse. While installation of these GYTR components will not "void" your vehicle's warranty, specific failures adjudged by Yamaha to have resulted from the installation of accessory components or other modifications, or from competition use (except YZ and WR motorcycle models), may not be covered by warranty or Yamaha Extended Service.

1. PARTS LIST:

This kit contains the following components. Before beginning installation confirm there are no missing or damaged components.

Item #	Part Number	Description	Qty
1	*	AIS Exhaust Plug	1
2	*	AIS Exhaust Gasket	1
3	*	AIS Air Box Plug	1
4	*	Vacuum Plug	1
5	*	Jet Needle	1
6	3TJ-14159-40-00	Jet Needle Clip	1
7	*	AIS Exhaust Plug Clamp	1
8a	5JG-14591-00-00	Throttle Stop – For WR450F (GYT-5TJ93-69-00) only	1
8b	5NL-14591-00-00	Throttle Stop – For WR250F (GYT-5UM93-69-01) only	1
9	4MX-14943-40-00	#165 Main Jet – For 2007 WR250F (GYT-5UM93-69-01) only	1
10a	4MX-14948-06-00	48 Pilot Jet – For WR450F (GYT-5TJ93-69-00) only	1
11	*	90 Bleed Jet – For WR250F (GYT-5UM93-69-01) only	1
12	*	Zip Tie	1

- Part supplied with kit only and not available separately.
- **NOTE:**
 These instructions are used for multiple model / year WR's, which may have slight differences in the installation process. Be sure to follow the directions closely and use the appropriate owners / service manual for all steps.

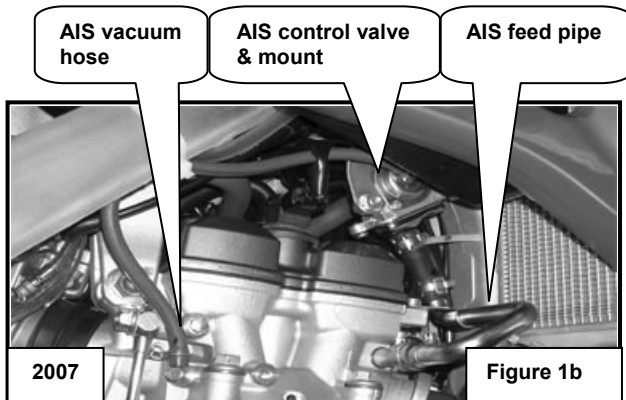
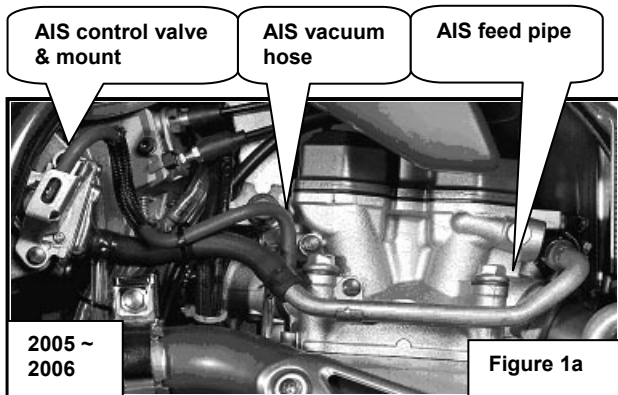


2. PREPARATION:

- Turn off gas valve, Check to make sure no fuel is leaking from the gas cap or vent hose before proceeding.

⚠WARNING

Gasoline and its vapors are highly flammable and explosive.



3. INSTALLATION:

- Remove seat, side panels, muffler and sub-frame.
- Remove shock (07 WR250F only)
- Remove carburetor
- Remove AIS control valve, feed pipe and vacuum hose (figure 1)
- Install AIS gasket, cap and clamp (#1,2,7)

NOTE:

The exhaust fitting clamp must be retightened after the engine has reached normal operating temperature and cooled.

CAUTION:

If this step is skipped the plug may loosen and fall off.

- Install vacuum plug on carburetor, secure using original clamp(#4)
- Install air box plug and secure using zip tie provided (#3)
- Install throttle stop (#8) (figure 3)

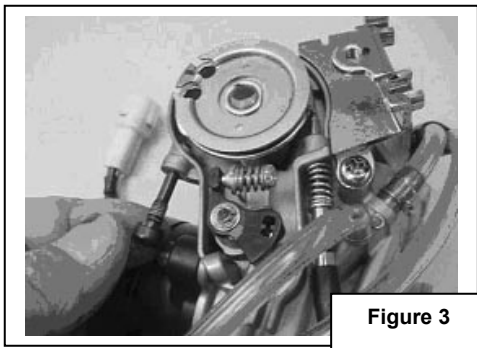


Figure 3

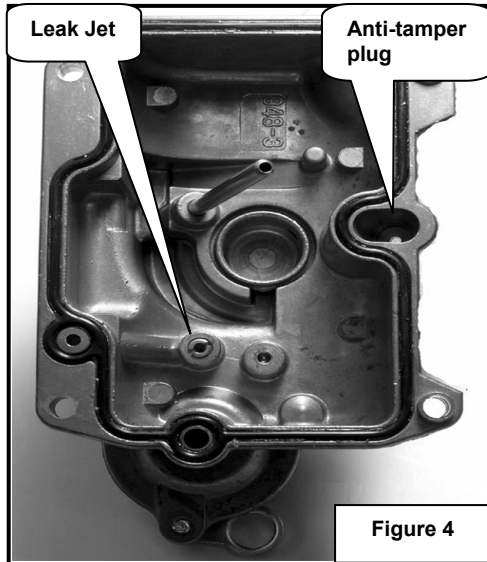


Figure 4

- Place clip on the jet needle in the # 4 position (4th from the top) and install into carburetor body. (#5,6)
- Remove float bowl from carburetor body and tap out the anti-tamper plug.(figure 4)
- Set the fuel mixture screw to 2 turns out from lightly seated.
- Install leak jet (WR250F only)(#11) (figure 4)
- Install main jet (07 WR250F only) (#9)
- Install the supplied pilot jet (WR450F only) (#10)
- Reassemble in reverse order. Be sure to torque all fasteners to torque specification listed in the service manual.

CAUTION:

Adjusting the fuel screw past 3½ turns out from lightly seated may cause it to fall out!

NOTE:

The recommended settings supplied with the kit should be used as a baseline. Due to diverse conditions across the United States, results may vary and re-jetting may be required to achieve maximum performance.

4. MAINTENANCE:

Periodically check all hardware for tightness and re-torque as required.

5. CUSTOMER SERVICE:

For further information see your Yamaha dealer.

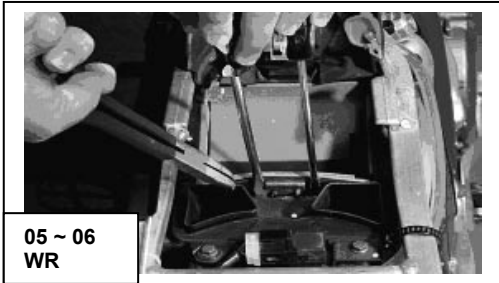
Additional power modifications for closed course competition are listed below. The AIS removal kit has been designed to work with the following modifications.



1. Remove the intake silencer. This will allow unrestricted air intake.

- Remove the battery.
- (07 WR) Remove 3 screws and extract intake silencer
- (05 ~06 only) There are 2 pop-rivets used to hold the battery strap bracket that block the intake silencer from slipping out. Gently pry the battery box forward until the intake silencer can be removed.
- Install the battery.

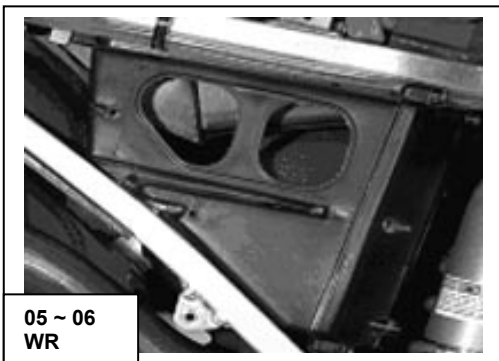
Note: Use caution when doing this as you can break the battery box by using too much force.



Optional Air box modification (05 ~ 06 only):

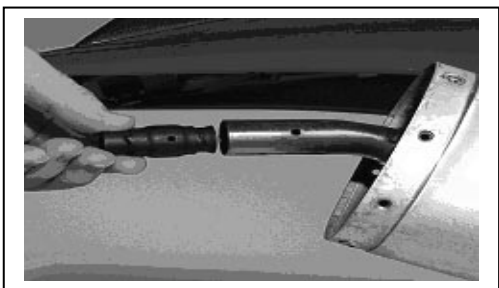
- Remove the right side panel and air box cover. Using a razor blade or small dremel tool, cut out the 2 shapes molded into the right side air box. See below pictures.

CAUTION: Take care to protect the air filter from damage while removing the air box cutouts. This optional modification will reduce water crossing depth and the customer will need to service the air filter more frequently.



2. Remove the exhaust restrictor. This will reduce restriction in the exhaust system.

- Remove the muffler end cap and the exhaust tip.
- Using a proper sized drill bit (3.65mm works), drill out the rivets that hold the exhaust restrictor in place and remove the restrictor from the exhaust tip.



5. Remove the gray wire from the CDI unit. This will change the ignition timing advance curve.

- 07 WR CDI located behind left side panel
- 05 ~ 06 CDI located on right side of frame neck
- Using a small pick or flat blade screw driver, remove the gray wire out of the 6 pin connector. Fold the gray wire back and insulate with shrink tubing or electrical tape to prevent shorting to ground.

