

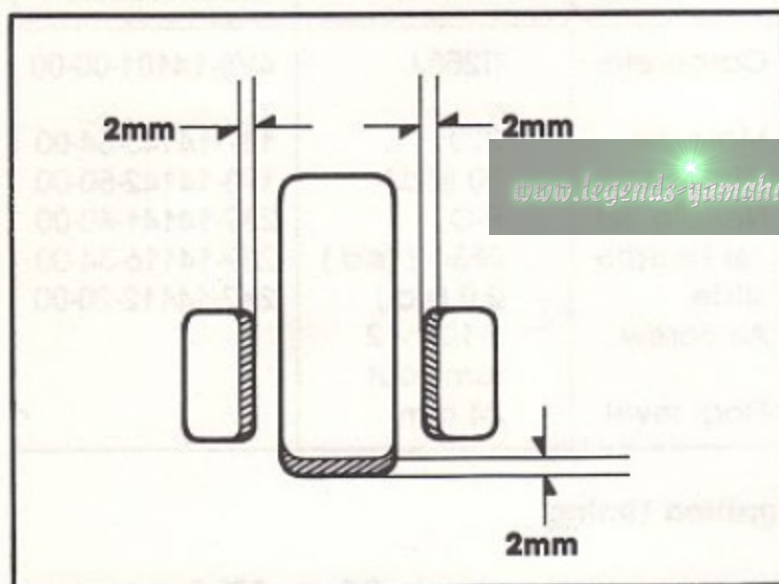
DATE May 18, 1983

## YZ125K PERFORMANCE MODIFICATIONS

The optional modifications described here can be done to improve the performance of the YZ125K. Bear in mind that some of these modifications will affect the warranty; read the Owner's Warranty Guide for details.

### CYLINDER

Using a hand grinder, remove the material shown in the shaded portions of the illustration. Grind the ports to the existing contours.

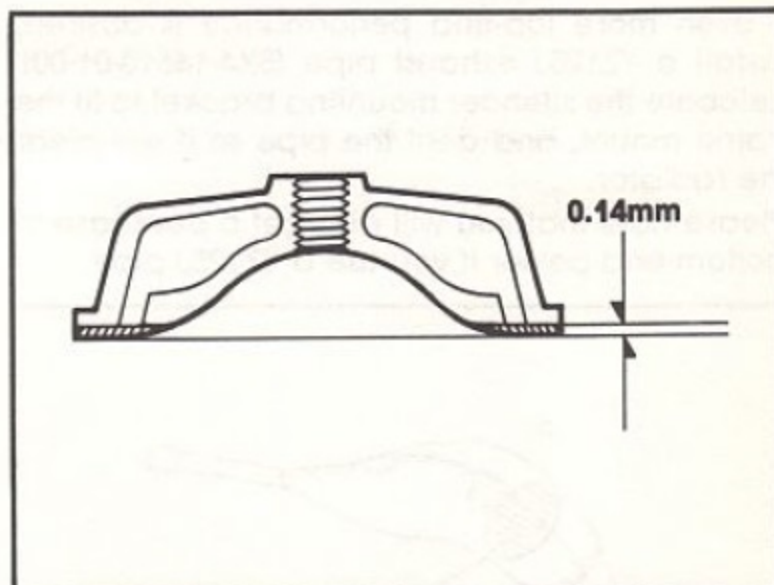


### CYLINDER HEAD

Mill 0.14mm from the cylinder head gasket surface.

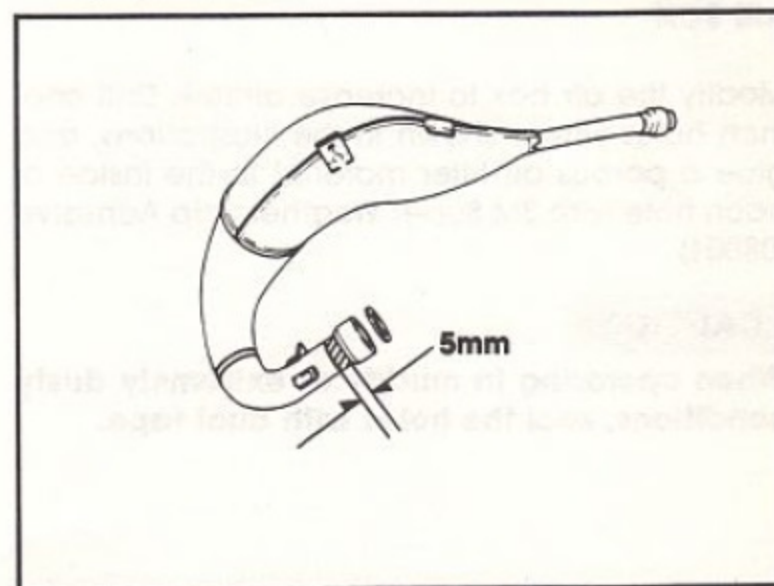
#### CAUTION:

The squish area of the combustion chamber must be remachined to maintain a piston-to-head clearance of 0.75mm



### EXHAUST PIPE

Shorten the head pipe approximately 5mm, and install an exhaust gasket from a YZ80J (152-14613-00-00). Cut out the material at the joint as shown in the illustration; take care to make the cuts parallel to one another.



To align all items properly, tack weld the head pipe while it is in place on the motorcycle.

SERVICE COPY	SER MGR	MECH	MECH	MECH	BINDER
OFFICE COPY	GEN MGR	SALES	PARTS	BINDER	PAGE 1 OF 2



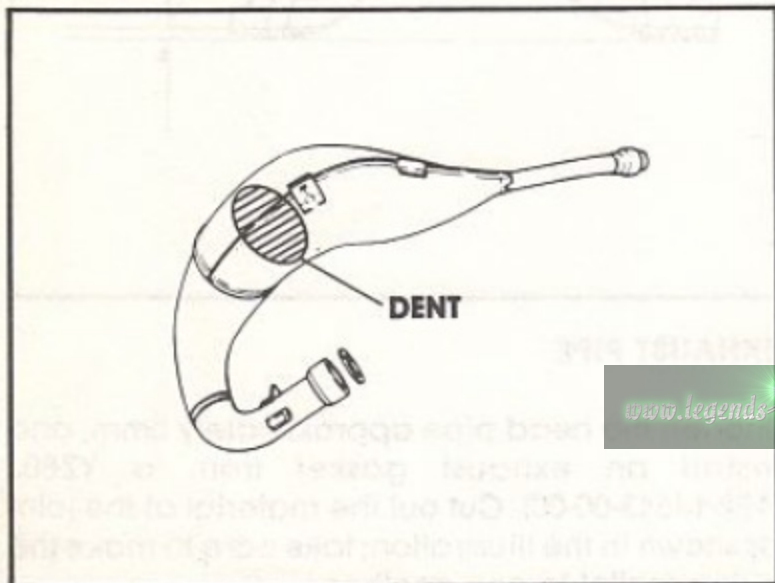
remove the entire exhaust system, and complete the welding on a bench.

**WARNING:**

Remove the fuel tank and the carburetor before doing any welding. Welding can produce sparks that could cause a fire. Use a TIG welder when performing this modification; do not use an arc or a gas welder. A TIG welder is the least hazardous welder for this application.

If even more top-end performance is desired, install a YZ125J exhaust pipe (5X4-14610-01-00). Relocate the silencer mounting bracket to fit the frame mount, and dent the pipe so it will clear the radiator.

Please note that you will also get a decrease in bottom-end power if you use a YZ125J pipe.

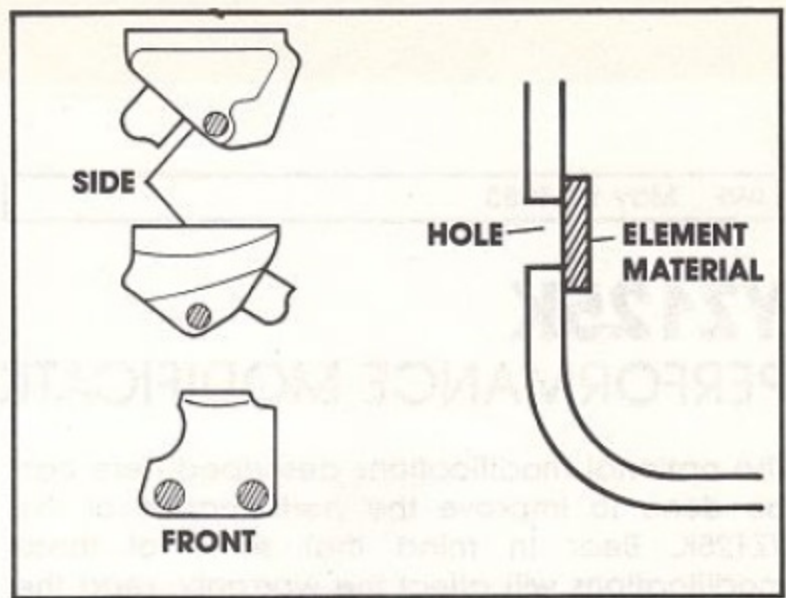


**AIR BOX**

Modify the air box to increase airflow. Drill one-inch holes where shown in the illustrations, and glue a porous air filter material to the inside of each hole with 3M Super Weather Strip Adhesive (08001).

**CAUTION:**

When operating in muddy or extremely dusty conditions, seal the holes with duct tape.



**CARBURETOR**

Use a Mikuni VM 36mm carburetor from the IT250J or K models jetted to the specifications shown below.

		PART NUMBER
Carburetor	IT250J	4V5-14101-00-00
Main Jet	270	137-14143-54-00
Pilot Jet	50 (std.)	193-14142-50-00
Needle Jet	P-O	239-14141-40-00
Jet Needle	6F34-2 (std.)	239-14116-34-00
Slide	2.0 (std.)	2X7-14112-20-00
Air Screw	1-1/2 ~ 2 turns out	
Float level	24 mm	

**Ignition Timing**

Set the ignition timing to 2.0mm BTDC. The standard timing is 1.88mm BTDC.

**Gearing**

Install a 50-tooth rear sprocket (3R4-25450-00-XX). The standard rear sprocket has 48 teeth.