

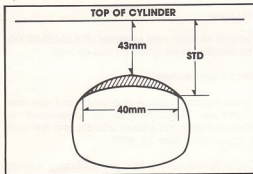
DATE February 8, 1983

## YZ490K PERFORMANCE MODIFICATIONS

The optional modifications described here can be done to improve the performance of YZ490K models. 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 material as indicated by the shaded portion of the illustration.

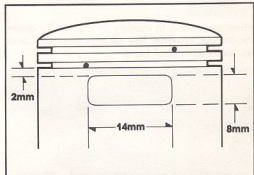


### PISTON

Cut a hole in the intake side of the piston as shown in the illustration.

#### CAUTION:

Make sure the corners of the hole are sufficiently radiused, and chamfer all edges.



### CARBURETION

Install a #450 main jet and a #45 pilot jet. Move the jet needle clip to the #3 position (middle), and set the air screw between 1-3/4 and 2 turns out. Make sure the float level is 27mm.

### AIR BOX

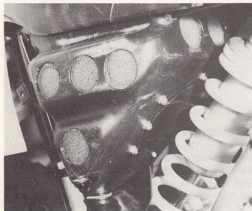
To increase airflow volume in the air box, cut six 1-inch holes in the box as shown in the photograph. Rivet some fine-mesh screen over the holes on the inside of the box. The air box cap may be removed during operation in dry conditions.

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

February 8, 1983

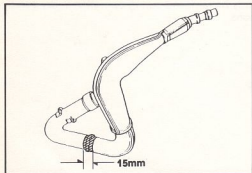
**CAUTION:**

When operating in muddy or extremely dusty conditions, reinstall the air box cap and seal the holes with duct tape.



**EXHAUST PIPE**

1. Cut 15mm from the header pipe as shown in the illustration; take care to make the cuts parallel.



2. With the pipe in position on the motorcycle, tack weld the two pieces together.
3. Remove the pipe and complete the welding.

**WARNING:**

Remove the fuel tank and carburetor before doing any welding. Use a TIG welder; do not use an arc or gas welder, as either could produce sparks to start a fire.

**GEARING**

Install a 48-tooth rear sprocket (3R4-25448-00-XX). The standard rear sprocket has 46 teeth.

**RACE PREPARATION**

Follow the chain guide alignment and rear axle alignment recommendations described in Wrench Report #25 (dated 2/26/82) and the Tech Update dated May 21, 1982.

Check to ensure that the ignition timing is set to 2.0mm.

Make sure the additional predelivery setup instructions in Technical Bulletin M82-053 have been performed.