



Abbriata M60 Main Shear Pin Change Guide

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Scope and purpose

This guide is limited to the Abbriata M60 Square baler sold by Tractor Tools Direct.

This manual is only a guide to aid in the changing the main shear pin. Consult the operations manual for instructions on usage and safety.

Stop the tractor and set the brakes

Disengage the PTO and stop the tractor. Set the parking brakes or chock the wheels for safety.

Remove flywheel guard

The main shear pin is behind the yellow plastic guard that is installed on the front of the flywheel. Remove the guard by pushing down on the small end where PTO driveline feeds through.

Open the cover over the gearbox

Lift up the front cover to expose the gearbox and crank. The baler has a rod that folds up to keep the cover supported so you do not have to hold it up.

Locate the access window in the frame of the machine behind the flywheel. See figure 1.



Figure 1 access hole behind the flywheel

Align the shear bolt to the drive flange

The shear pin halves may or may not still be in the flywheel and the drive flange to the rear of the flywheel. The two halves will need to be removed first. After removal of the front half, insert a new shear pin into the hole in the front. Rotate the flywheel counter clockwise to cause the drive flange to be rotated into the window to the rear of the flywheel. Only turn the flywheel in the CCW direction, as turning the flywheel in reverse can cause problems if the knottter has started to cycle and you run the machine in reverse. The bolt will drive the flange, but will not be through the hole yet.



Figure 2 rotation direction and shear pin location on front of flywheel

If needed, have someone help you hold the flywheel and/or the crank arm on the gearbox to keep the flange in place. Remove the nut and the back half of the broken bolt if it is still in the hole as shown in figure 3 below.



Figure 3 drive flange behind the flywheel

Once the hole is cleared, back the flywheel off just a little, pull the bolt back out then align the hole in the flywheel and the one in the drive flange in figure 3. Insert the new shear bolt back into the two aligned holes and install the nut with the nylon retainer ring. Once the threads have engaged the nylon retainer for 2 or three turns it will not back off on its own. Just snug it, it does not need to be super tight.

Shear bolt and nut identification

The shear bolt is a metric bolt, 8 mm in diameter by 60 mm long. The grade is 8.8 metric. Note that metric grade 8.8 is a soft bolt and is NOT equivalent to a SAE inch grade 8 (hard) type. Replace with only the correct type and size bolt to assure continued protection for the machine. We can supply you with replacements on our website. Click on the link below, or go to the parts section for Abbriata.

[Shear bolt on our website](#)



Figure 4 shear bolt 8x60 mm grade 8.8

End of document.

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