

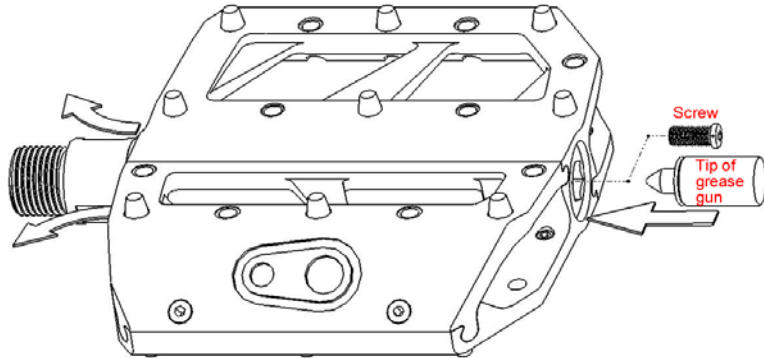
MAINTENANCE

Minimal maintenance is required with 5050 XX pedals. In normal conditions, the bearings are waterproof and all materials are rust-resistant. The pedals are generally self-cleaning and in most cases, dried mud and dirt will fall off on their own. However, you should occasionally inspect your pedals for damage, wear, or excessive play. Your 5050 XX should be re-greased periodically as described below. Never use high pressure water to spray off your pedals. A rebuild kit is available for your 5050 XX pedals from Crank Brothers or your local retailer.

RE-GREASING OVERVIEW:

5050 XX pedals can be easily re-greased with a grease gun. For maximum durability (and depending on your riding conditions), you should re-grease your pedals after every 300 hours of riding. Wet or muddy conditions are the most severe. Re-greasing will flush out the old grease and contamination as well as apply fresh lubrication. Re-greasing only takes a few minutes per pedal and can be done with the pedal still on the crank arms. Use any high quality waterproof bicycle grease available at bicycle stores.

To re-grease the 5050 XX, remove the screw in the End Cap using a 2mm hex. This exposes a hole for applying the grease. Push the tip of the grease gun against this hole and inject grease into the pedal. Grease will exit past the seal near the crank arm end of the pedal. Stop when the grease that exits looks clean. Replace the screw.



RE-BUILDING OVERVIEW:

If 5050 XX pedal becomes loose or feels gritty when it turns, then the pedal needs to be rebuilt. Crank Brothers can rebuild your pedals for you, or you can rebuild them yourself using a rebuild kit available from your local retailer or Crank Brothers (www.crankbrothers.com). It is relatively easy to replace the needle bearing and cartridge ball bearing. The typical tools required are 2mm, 6mm, and 8mm Hexes, and an 8mm socket and driver. You'll also need some grease and a rag. Applying the grease is easiest and most thorough if you use a grease gun, but it can be done manually, too. For more information, please contact your local retailer or Crank Brothers.

DISASSEMBLY

step 1 • Remove End Cap

Remove the End Cap with an 8mm hex tool.

step 2 • Remove Nut

Remove and discard the Nut using an 8mm socket and a 6mm in the Spindle.

step 3 • Remove Spindle

Pull the Spindle out of the Body Assembly and place on a clean rag.

step 4 • Remove Cartridge Ball Bearing

Remove and discard cartridge ball bearing. If it does not fall out, then push out from other end using a 6mm hex or similar object.

step 5 • Remove Seals

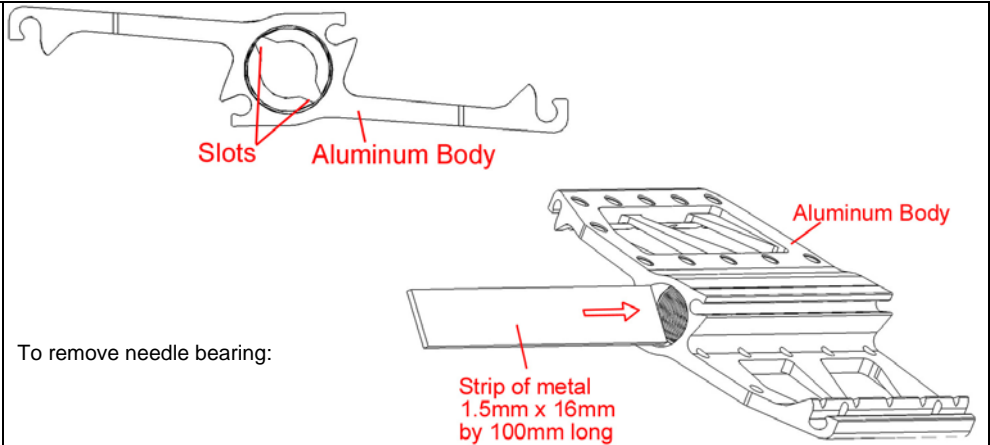
Remove and discard the inner and outer seals.

step 6 • Remove Needle Bearing, if necessary

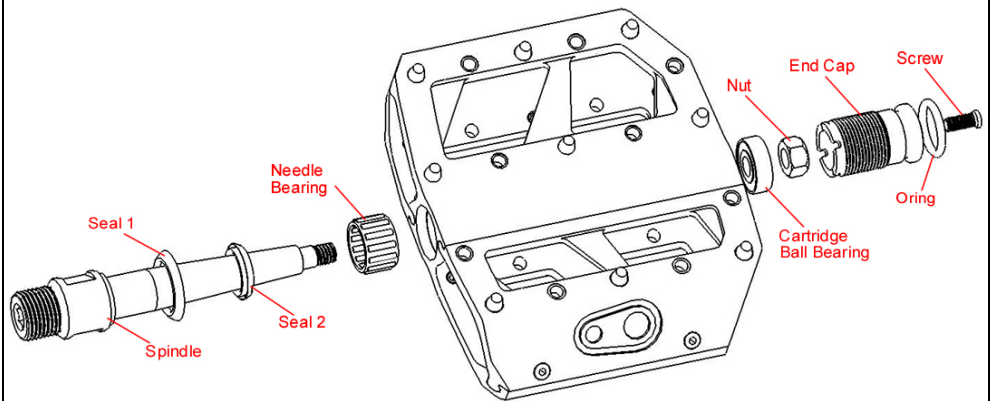
In many cases, the needle bearing will not need to be replaced during a rebuild. However, the needle bearing can be removed by a small flat bladed screw driver. If the needle bearing is too tight, the very best method is to push a flat strip of metal about 16mm x 1.5mm by 120mm down the slots in the body, as shown on the picture. The metal piece fits into the two slots in the body. This will push out the needle bearing. For example, a strip of "plumber's metal tape" is sometimes the correct dimension. You can also try pulling the needle bearing out by digging the head of a nail under the back of the needle bearing. Pull on the nail using a pliers or similar. Or, you can push a large flat bladed screw driver through the body and tap out the needle bearing.

step 7 • Clean Parts

Using a cloth rag or paper towel, wipe the grease out of the interior of the Body Assembly, the entire End Plug (if it is to be reused), and the outside of the Spindle.



To remove needle bearing:



REASSEMBLY

step 1 • Install Cartridge Ball Bearing

Push new cartridge Ball Bearing into Body Assembly.

step 2 • Install Needle Bearing

Install new needle bearing into the Body, if the original was removed. Be sure it is pushed all the way in.

step 3 • Install Seals

Install inner Seal 2 into Body so that the small rubber lip is facing outwards. Grease and install outer seal 1 on Spindle.

step 4 • Apply Grease

Apply grease to all surfaces of the Spindle that will be contained within the Body Assembly except threaded end.

step 5 • Install Spindle

Push Spindle into the Body Assembly, being careful that the Seal doesn't get pinched or the sealing lip inverted.

step 6 • Install Nut

Install Nut using an 8mm socket and a 6mm Hex in the Spindle. Tighten firmly to 30in/lb (3.5NM). **WARNING: The Nut must be tightened correctly or the Body Assembly could fall off during riding and cause injury.**

step 7 • Install End Plug

Install End Plug with an 8mm hex. Be sure the Oring on the End Plug does not get pinched on the pedal Body.

QUESTIONS OR COMMENTS?

tel: 949 464 9916 fax: 949 376 7010 crankbrothers.com info@crankbrothers.com



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