

# How to Oil the One Way Bearing

Are you experiencing any of the following problems with your #2900 AE .15 pull start engine?

"When I pull the starter cord, I can feel that the cord is not catching like it used to."

"The pull start slips no matter how I pull it."

"I can pull it once so the engine starts but then the pull start skips to its full length."

The problem of the pull start cord slipping may be solved by oiling the one way bearing in the engine. Here are safe steps to remove the pull start and back plate in order to oil the bearing.

The one way bearing will be properly lubricated when high quality fuel is used. To prevent this starter cord slippage in the future, use only the fuel recommended in your manual.

## Assemble your tools

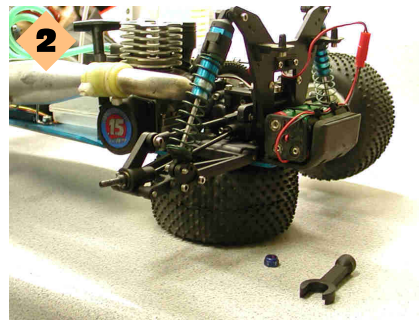


Before starting, assemble the following: 3M 3-in-1 brand or other lightweight oil, a small flat head screwdriver, your Allen wrench set, your wheel nut wrench, a roll of electricians tape, an old rag for wiping oil. Also have a hobby knife and needle nose pliers handy (not shown).

## remove the rear wheel

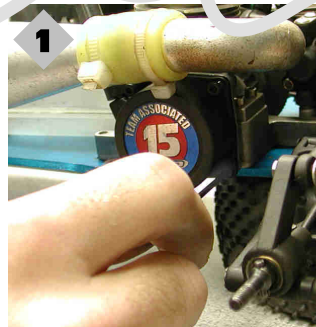


Use your wheel nut wrench to remove the nut from the rear wheel next to the engine. Remove the wheel.

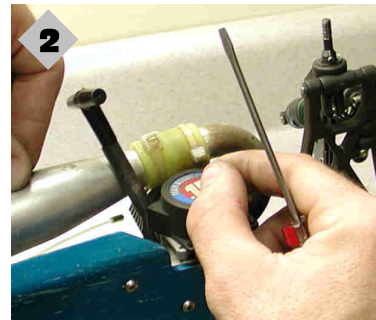


Rest the rear end of your truck on the wheel.

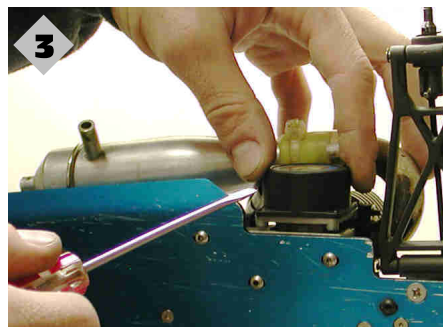
## remove the pull start



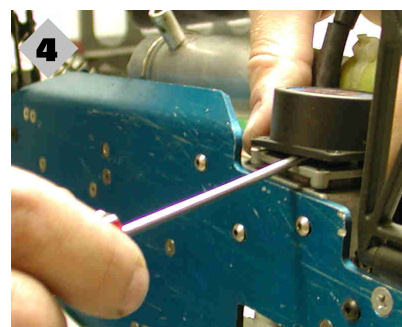
Use your Allen wrench to remove the four screws of the pull start cover. Keep the screws together some place safe.



Move the pull start handle to the other side of the pipe as shown.

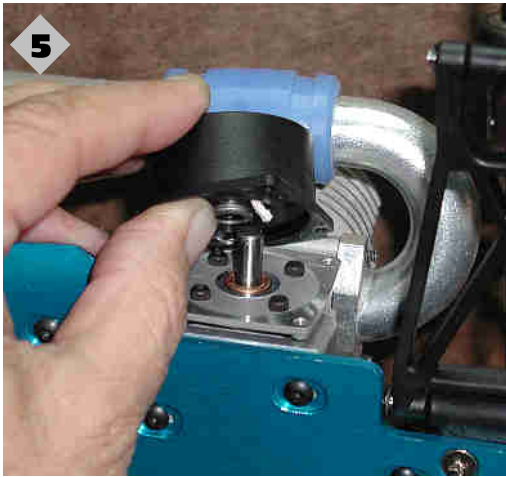


Turn the chassis so the bottom is facing you. Pick up the small, flat head screwdriver in your right hand and grasp the pull start cover with your left hand thumb and forefinger as shown.



Lift the pull start slowly and insert the screwdriver.

## remove the pull start



Lift the pull start carefully, using the screwdriver to hold the starter wheel in place. Slip your thumb over the opening to hold the spring in place and put the screwdriver down.

If the bearing comes up with the pull start, don't worry--just remove the bearing and set it on the table.



Wrap tape around the pull start to make sure the starter wheel and spring remain in place. Set the pull start on the table.



Add lightweight oil inside the space occupied by the axle until the space is full. Rotate the axle head several times so the oil lubricates the bearing.

If you had removed the bearing from the one way, make sure you replace it with the hex side toward the engine.

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Trace the steps backward to reassembled your truck.

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Aug. 2004