

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.

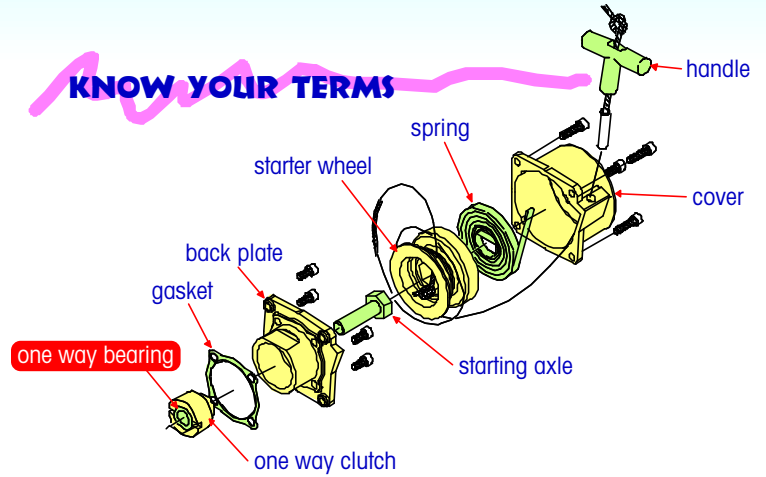
The one way bearing will be properly lubricated when high quality fuel is used. To prevent this starter cord slippage in the future, use only the fuel recommended in your manual.

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).

KNOW YOUR TERMS



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



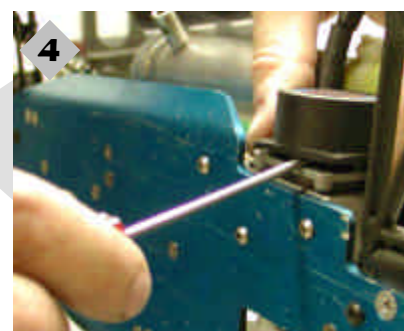
Use your Allen wrench to remove the four screws of the pull start cover. Keep the screws together some place safe.



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.

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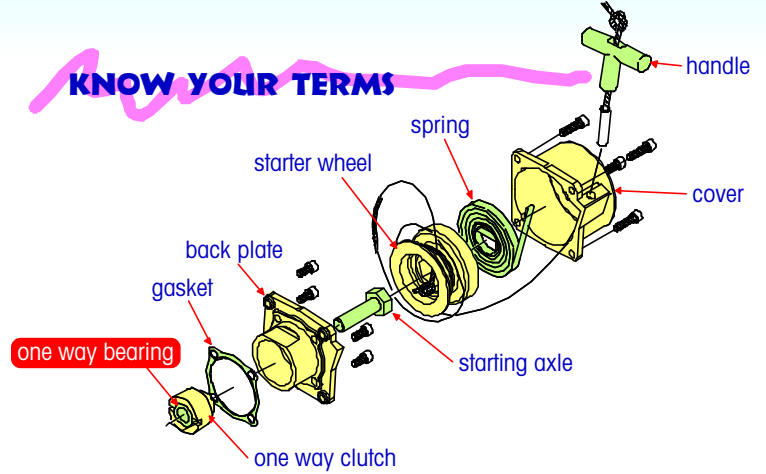
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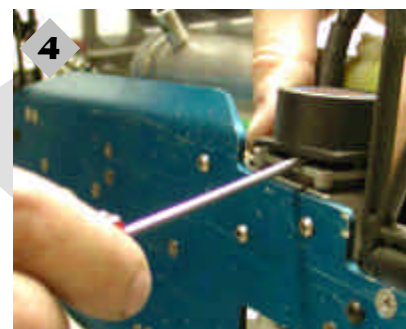
Use your Allen wrench to remove the four screws of the pull start cover. Keep the screws together some place safe.



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

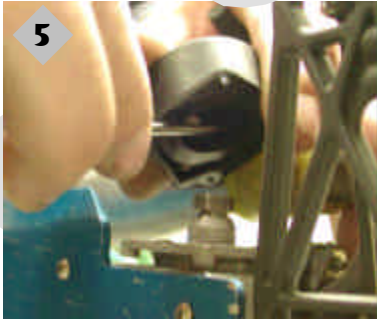


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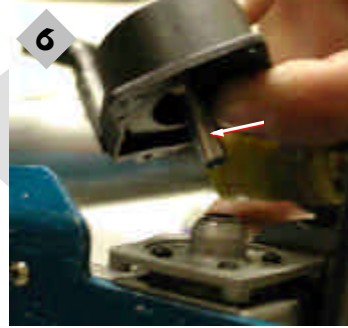


Lift the pull start slowly and insert the screwdriver.

REMOVE THE PULL START (continued)



5 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.

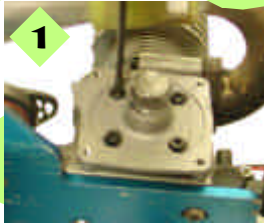


6 If the starting axle comes up with the pull start, don't worry--just remove the axle and set it on the table.



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

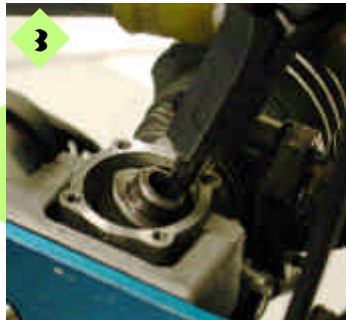
REMOVE THE BACK PLATE



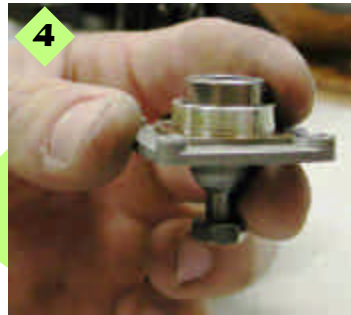
1 Use your Allen wrench to remove the screws from the back plate. Keep those longer screws separate from the shorter pull start screws.



2 Remove the back plate from the engine. Your back plate may look slightly different.



3 Remove the one way clutch with your small needle nose pliers if it fell in. Insert the one way clutch into the back plate. If your starting axle fell out when you pulled out the part, then insert it part way so it matches the photo at right.



4 Turn the back plate so the axle head is pointing down and pull the axle head out slightly as shown. Half of the bearing will be exposed inside. Place a rag on the table underneath to catch any oil spills.

OIL THE BEARING



1 Add lightweight oil inside the space formerly occupied by the axle until the space is full. (The axle will keep the oil from spilling out.) Rotate the axle head several times so the oil lubricates the bearing.

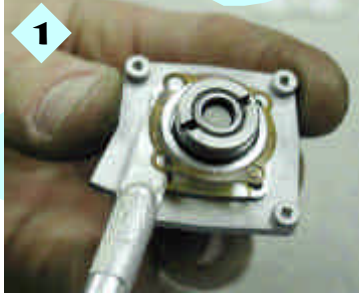


2 Push the starting axle back in all the way. Holding the parts as shown, rotate the bearing counterclockwise with your left forefinger and the axle head clockwise with your other hand from underneath to lubricate it thoroughly.



3 Now dab the bearing with the rag to soak up any excess oil. Put the rag aside.

INSPECT THE GASKET

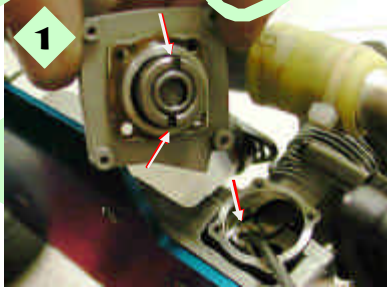


1 Check the gasket for signs of wear or breakage. Lift it away with your hobby knife carefully.

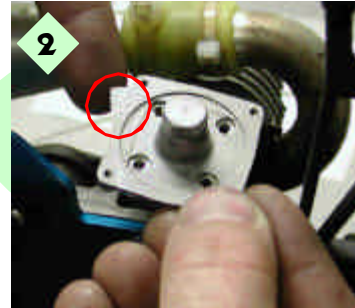


2 The gasket on the left is good. The gasket on the right is broken at the screw holes and needs to be replaced.

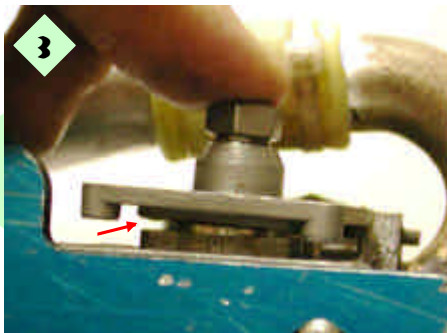
INSTALL THE BACK PLATE



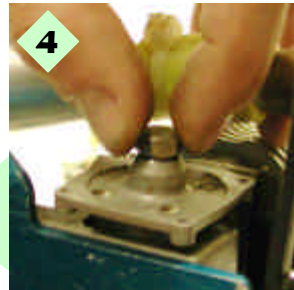
1 Hold the back plate over the opening and rotate the clutch so the notches will be close to lining up with the crank shaft pin.



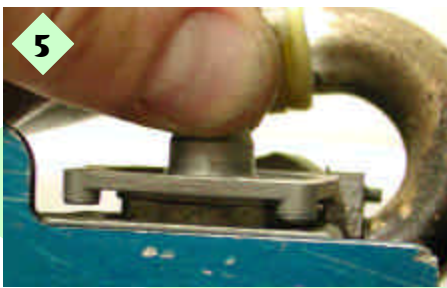
2 Place the back plate back into position, orienting the fin of the back plate (shown by circle) so it points to the front of the truck as shown.



3 Your back plate may sit crooked when first put in place.



4 Rotate the axle head so the bearing notch seats in the crank shaft pin.



5 Your back plate should seat flush as shown.

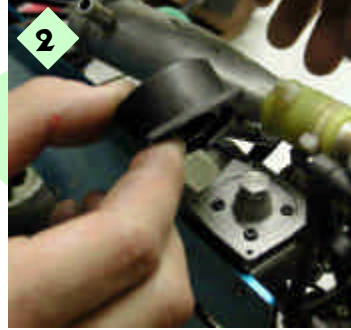


6 Use the longer screws to fasten the back plate to the engine.

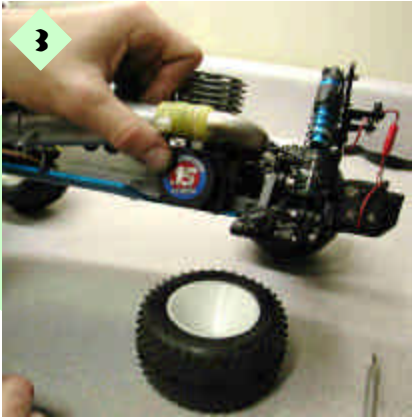
INSTALL THE PULL START



1 Pick up the pull start cover and keep your left thumb firmly in position to hold the spring in place as you unwrap the tape.



2 Transfer the cover to the other hand so your right forefinger holds the spring in place. Slip the pull start handle into position with your left hand and move the pull start into place over mounting holes.



3 Holding the pull start firmly into position with your thumb, lower the truck chassis onto the wheel.



4 Bolt the pull start cover to the engine with the remaining four screws.

INSTALL THE WHEEL



1 Put the wheel back on the axle, lining up the notches in the wheel with the pin on the axle.

TEST THE CORD



1 Now pull the starting cord smoothly several times to make sure all is well. Remember not to pull the cord out all the way and not to jerk strongly on the cord. Pull with smooth, short, rhythmic pulls.

CONTACTING US

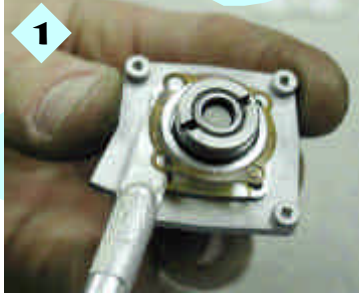


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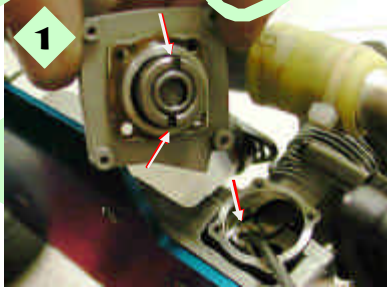


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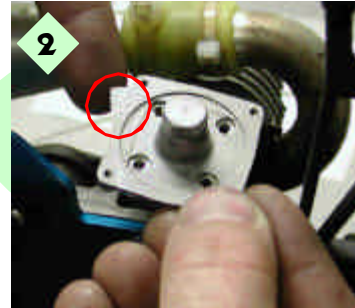


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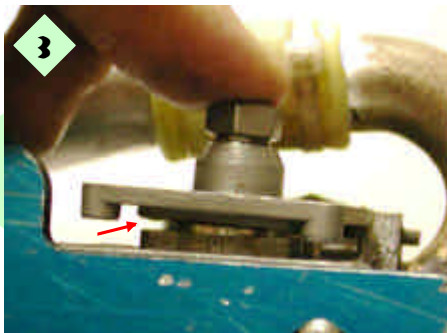
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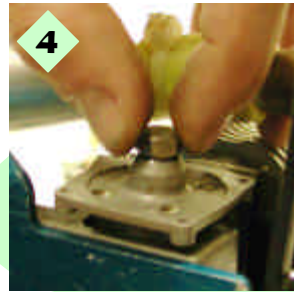
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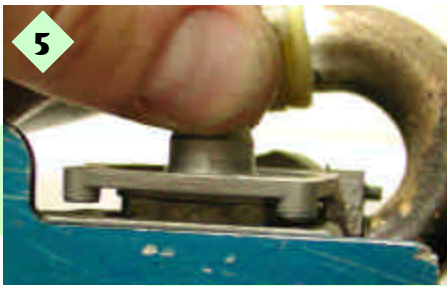
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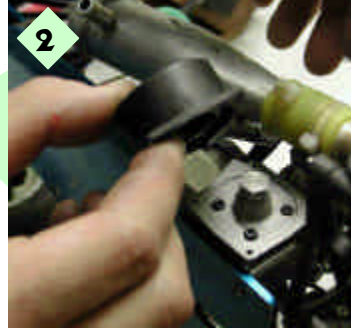


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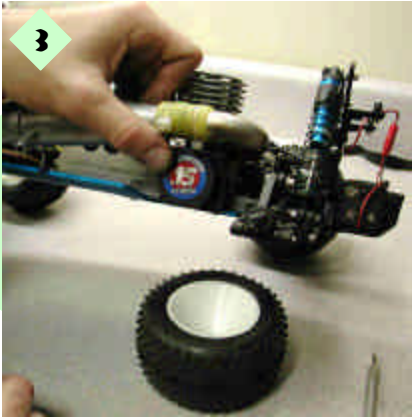
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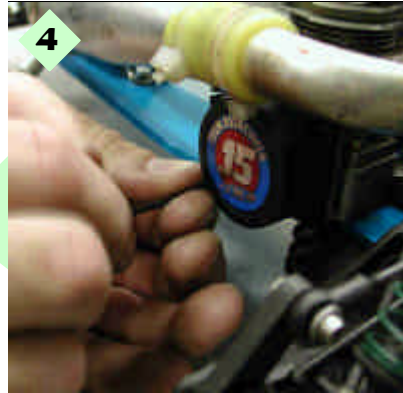
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