



WinchGear®
serious winch products

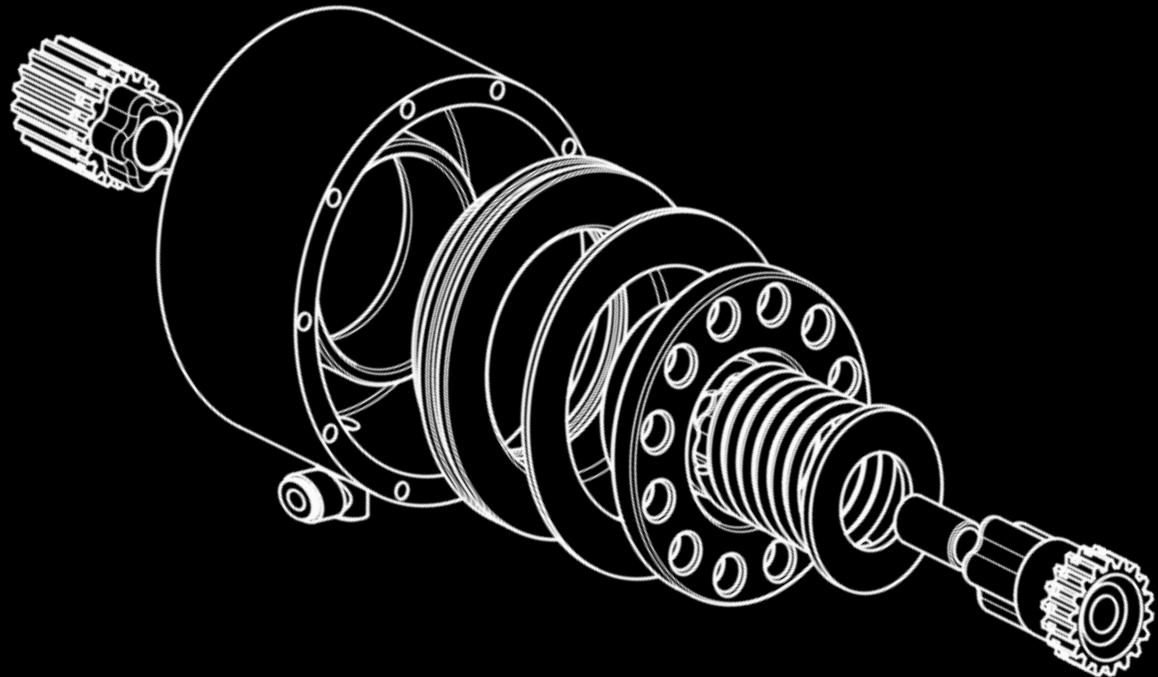
AFS



INSTALLATION GUIDE



Diagram 1.



WARNING

Installation must be performed by a competent person familiar with winch service procedures.

Wear eye protection and gloves at all times.

Keep hands clear of internal parts when applying pressure to housings.

Ensure all fasteners are correctly installed and tightened before operation.

Failure to follow these instructions may result in equipment damage, injury, or death.

The WinchGear AFS is designed only for specific **WARN®** winch models.

You must verify compatibility before installation.

Confirmed compatible **WARN®** models: M6000, M8000, XD9000, XP9500

If your model is not listed, contact Road Runner Offroad to confirm compatibility before installation.

These instructions are intended to be used in conjunction with the official **WARN®** Service Manual for your specific winch model.

The **WARN®** manual contains additional torque specifications and critical service information that must be followed.

Tools Required:

- 6mm Allenkey
- 4mm Allenkey
- drill
- m5 drilltap

What's Included:

- Long drive gear
- Short drive gear
- 2 circlips
- Washer
- Spring
- Clutch
- Plastic washer
- Piston
- Housing
- Air fitting
- Hex shaft
- 10 x m5 bolts

Step 1

Remove the 10x cap head screws securing the gearbox housing.

Carefully separate and remove the gearbox housing from the winch.

Remove the standard hex shaft and small drive gear, place to the side as these are no longer needed.



Step 2

Remove the 2x bolts securing the endplate to the tie bars.



Step 3

Using the supplied M5 drill tap, re-tap the existing 3/16" holes in the gearbox housing.

Ensure threads are clean and cut to full depth to suit the new M5 cap head bolts.

Important: Keep the tap aligned straight to avoid cross-threading. Apply cutting fluid if available.



Step 4

Position the AFS housing onto the endplate, ensuring the gasket is either new or in good condition.

Align all components correctly and stack the remaining parts in the order shown in Diagram 1.

Grease moving parts with molybdenum grease. (Male and Female clovers, brass bush and teflon wear plate)



Step 5

Carefully position the standard gearbox assembly on top of the AFS housing.



Orientate the air fitting and standard freespool lever in the desired position before proceeding.

This step can be tricky as are be working against spring pressure.

Apply downward pressure by hand to bring both housings together while ensuring the long drive gear "clover" aligns correctly with the clutch clover.
(two sets of hands makes this significantly easier.)

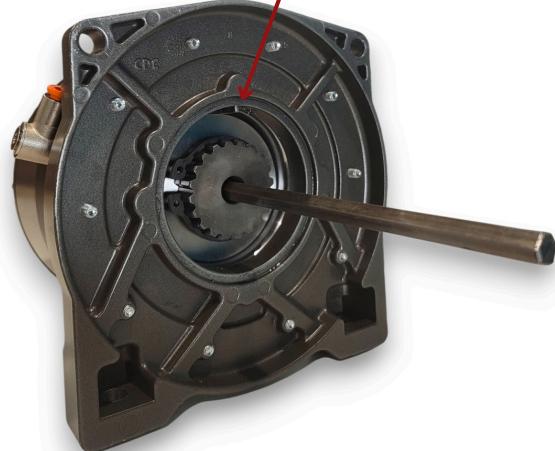


Do NOT use the bolts to draw the housings together. Forcing the cases together with bolts can strip the small aluminium threads in the endplate.

Step 6

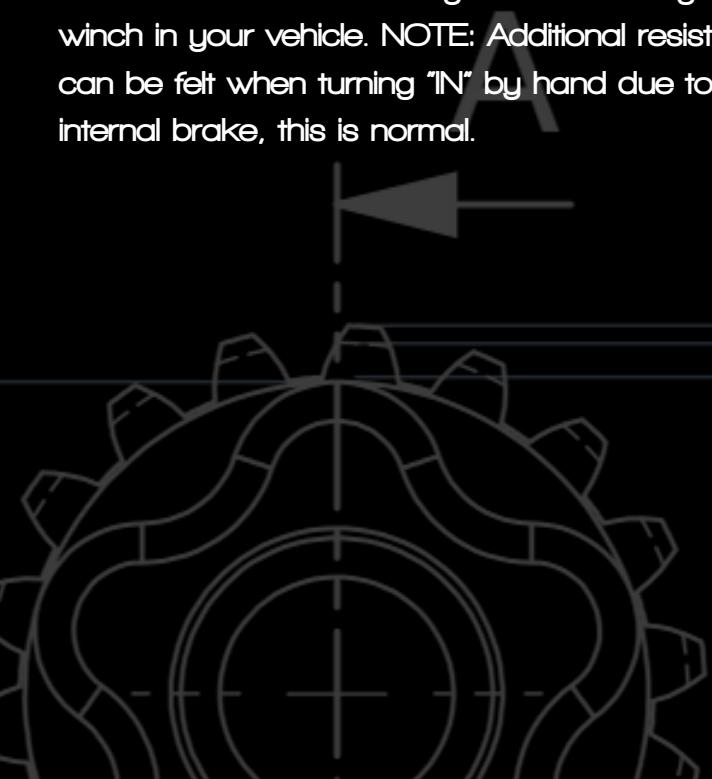
Insert the new longer hex shaft into the female hex located in the brake assembly inside the drum. Carefully slide the complete gearbox assembly back onto the drum. Ensure the drum bush groove correctly locates onto the alignment tab on the endplate.

Check: If the bush groove is not aligned on the tab, the assembly will not fully seat do not force it.



Step 7

Supply air to the AFS and check smooth operation and that there is no binding before installing the winch in your vehicle. NOTE: Additional resistance can be felt when turning "IN" by hand due to the internal brake, this is normal.



Ø 32.50
Ø 36
Ø 37.8

OPERATION INSTRUCTIONS

Air pressure is applied to the AFS unit (60-125PSI)
via an air toggle or air solenoid. This will disconnect
the drum from the gearbox and allow free spool.

Release air via the switch or solenoid's exhaust port
and gently pull the rope to engage the drum.
Winching can then be commenced.

**DO NOT ATTEMPT TO RELEASE THE DRUM
UNDER LOAD.**

The standard freespool can be used as previously if
required.



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