INSTALLATION - SERVICE INSTRUCTIONS

765 South Pierce Avenue Louisville, Colorado 80027

303-665-6901

800-525-1963

www.markwilliams.com



Bulletin #97 page 1 of 2 9"-9-1/2" Ford Pinion Supports November, 2021

PART NUMBERS: DESCRIPTION

47675......PINION SUPPORT, ASSY BALL/BALL 28 SPL. (7/16" pinion studs).

PARTS INCLUDED:

See page two for item list and assemblie view

PRIMARY APPLICATIONS:

Drag racing. Must be used with Pro gears w/28 spline pinion. 1.3125" 1-5/6 diameter stem

INSTALLATION OVERVIEW:

- 1) The diameter of the pinion shaft is very important! MW pinion supports are pre-assembled and bearing preload determined based on a pinion shaft diameter of 1.3125" where the 57674 sleeve is installed. If the shaft is too large it will affect the preload on the bearing. The rear bearing in a Mark Williams support are manufactured with a bore size of 1.8760,this allows for a light press or slip fit the pinion with luberize coating. You might have to remove some of the luberize coating by polishing in a lathe for the proper fit.
- 2) The hardened bearing sleeve (57674) is factory inserted in to the 7309BM bearing that is installed in the 47672 housing.
- 3) Support assemblies are supplied with rear pinion bearing and sleeve installed in the housing so it is necessary to install these three pieces on the pinion as one unit. When pressing the bearing and housing onto the pinion shaft it is best to use a short piece of tubing, with an I.D. large enough to slip over the pinion shaft, to push on the inner race of the bearing. This will prevent damage to the bearing.
 - **Note:** To safely remove the rear bearing from the pinion without damage, use MW #57494 bearing puller. This tool is designed to fit under the sleeve in the rear bearing which in turn contacts the inner race of the bearing. Pressure to the bearing housing and/or the outer race of the bearing will result in damage to the bearing.
- 3) Stand the pinion on end on the pilot stub. Install the Housing with the rear bearing and bushing on the pinion shaft. You need to support the spacer in the rear bearing with a tube for the presing force. Next place the 47673 preload spacer down the pinion shaft to the rear bearing then push front the pinion bearing (7308B1312) aganst the preload spacer. The front bearing should be slip fit on the pinion. If not you might have to polish the shaft for a slip on a lathe wiith fine emery cloth to obtain a slip fit.
- 4) Before installing the seal it is a good idea to check the bearing preload, even with a new assembly. Install yoke or coupler on the pinion, install pinion nut and torque to 140 ft/lbs (if possible it is suggested to use a used pinion nut until final assembly). Rotate the pinion with an inch/lbs. torque wrench. The rotational drag should be 2-4 in/lbs If the rotational drag is too low step up the pinion nut torque in 10 ft/lbs increments and re-check the drag. Once the correct drag is achieved NOTE: the pinion nut torque. Maximum pinion nut torque is 200 ft/lbs. If the amount of drag is too high the preload spacer is too thin and should be replaced (new spacers that will require machining).
- 5) With the bearing preload checked and/or set, remove the yoke or coupler, install the pinion seal, re-install the yoke or coupler. Install a new pinion nut with Loctite and torque to the amount determined in step #4. The torque will increase with the seal.

TOROUE SPECS:

Pinion Nut 140 ft/lbs unless higher torque required per step #4 above.

Pinion housing nuts (3/8-24) 30-35 ft/lbs.

Pinion housing nuts (7/16-20) 40-45 ft/lbs.

MAINTENANCE REQUIREMENTS:

Periodic visual inspection. Periodic inspection of bearings and races for excessive heat (discoloration) or wear (pitting). It is recommended that gear oil be changed once a season after initial break-in.

ITEM QTY 7309BM 57674 47673 7307B1312 PART NUMBER DESCRIPTION HOUSING, PINION SUPPORT (BALL BALL) BEARING, ANGULAR CONCACT 7309 1.875 BORE SLEEVE (SMALL PINION) 1-7/8 BEARING SPACER, PRELOAD BALL/BALL (SMALL PINION) BEARING, 30 DEG. ANGULAR, 1.312 BORE SEAL, 28 SPLINE B/B SUPPORT 3.188 X 1.875 Parts List 001736IN.ipt 004367IN.ipt AS004363IN.iam 18899 SEAL.ipt 004361IN.ipt FILE NAME

MERMAL HEAT TREAT		8/30/2016 4/6/5	SURFACE FINISH UNLESS NOTED VISE	E PACH HERVING	DV-ANTS	Caleful Linescan Social
ATERIAL HEATTREAT PROTECTIVE FINISH PROTECTIVE FINISH PROTECTIVE FINISH PROPRIAMATON MACCHINING XX XXX XXXX XXXX XXXX XXXX XXXX XXXX	STRANGS	MANUAL MA	0005 1/2	.005	.015	YELDS PER SAR
TIVE FINISH TOLERANCES		PINION SUPPORT, ASSY BALL/BALL 28 SPL	X X	XXX	×	BAR LENGTH WEIGHT
TIVE FINISH	91-10-16 07-10-16	ASUU436ZIN.Idw	LERANCES	INING TO	МАСН	STOCK INFORMATION
PROTECTIVE FINISH	SON SON	OR MAD OTHER PLASTOR INTRODUCTION OF STITLE OF		2IN.iam	A800436	Z'linventorFilos\Assembly_Filos
PROTECTIVE FINISH	DESTRUCTOR PROPERTY OF LOSS OF THE PROPERTY OF	DESCRIPTION OF STATEMENT AND STATEMENT OF STATEMENT IN THE STATEMENT OF STATEMENT IN THE STATEMENT OF STATEMENT IN THE STATEMENT OF STA				
	E, CO 80027	765 SOUTH PIERCE AVE, LOUISVILLI	FINISH	OTECTIVE	PR	
	1	2				
	1	# 12 September Cally				
	Ų,	No. of the last	EAT	HEATTR		MATERIAL

Page Two 47675 Pinion Support



