



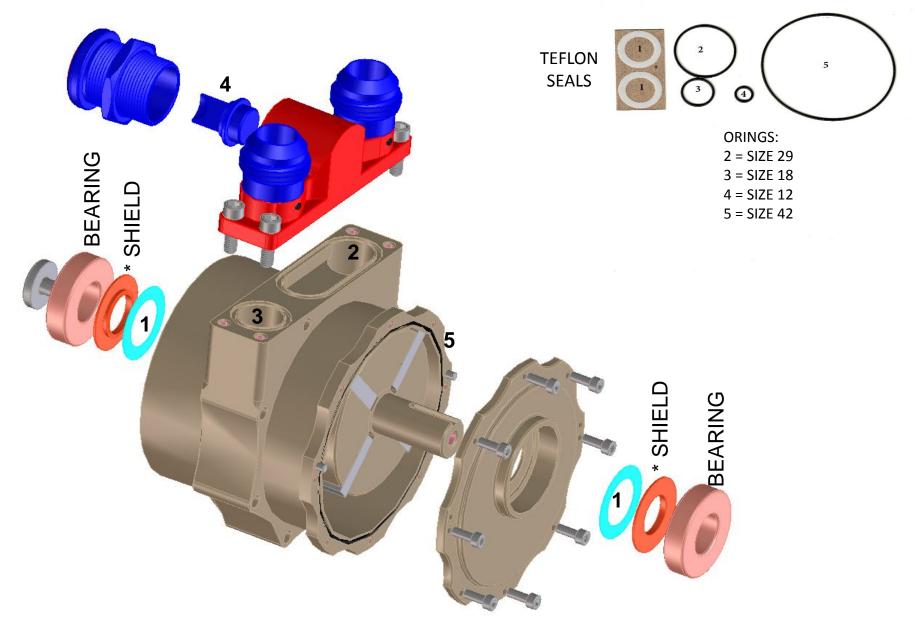
CHIPS AND SCRATCHES ALONG THE TRAILING EDGE ARE NORMAL WEAR.
ALTHOUGH THE CHIPS AND SCRATCHES ARE PRESENT ALONG THE ENTIRE EDGE,
OUR TEST HAVE SHOWN THE VACUUM LOSS TO BE LESS THAN 1 In. Hg. AT WOT.

OUR TEST HAVE SHOWN THE VANE HEIGHT WEAR IS MORE IMPORTANT,. HEIGHT WEAR CAN RESULT IN AS MUCH AS A 2 In. Hg. VACUUM LOSS AT WOT. NEW VANES MEASURE 0.957", REPLACE THE VANES IF THEY MEASURE BELOW 0.950".

A MAJOR LOSS (5+ In. Hg.) OR A COMPLETE LOSS OF VACUUM AT WOT IS NOT DUE TO VANE WEAR . A MAJOR LOSS OF VACUUM IS MOST LIKELY A RESULT OF THE VANES STUCK IN THE ROTOR SLOT. THE VANE(S) CAN BE STUCK IN THE ROTOR DUE TO SOLIDIFIED OIL. THE VACUUM REGULATOR MAY BE STUCK OPEN RESULTING IS MAJOR VACUUM LOSS.

A COMPLETE LOSS OF VACUUM IS OFTEN THE RESULT OF DEBRIS FROM THE ENGINE HAS ROLLED OVER THE ROTOR SLOT FACE(S) PREVENTING THE VANE(S) FROM MOVING OUTWARD. IF LARGE PIECES FROM THE ENGINE ENTER THE PUMP THEY MAY DESTROY THE VANES AND DAMAGE THE HOUSING.





* SHIELDS NOT INCLUDED IN OUR STANDARD REBUILD KIT

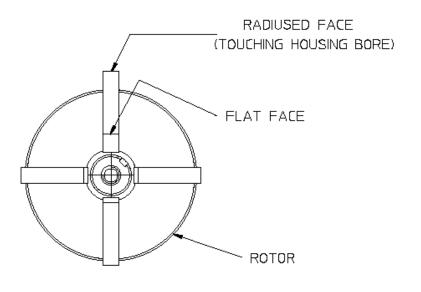
VANE INSTALLATION

The vanes contain two long narrow faces.

One these faces is flat, the other has a radius.

Place the vanes into the slot of the rotor with the radiused face facing "out" in contact with the bore of the housing.

Once worn, the vanes cannot be turned over to be reused.



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REV.	REVISION DESCRIPTION						DATE	
Si	STAR MACHINE DESCRIPTION ORIENTATION, VANE							
7510 OAK AVENUE PARKVILLE, MO. 21234				HEAT TREATING	MATERIAL			
	NEAR INCHES: .0510 * 0.005 1120 * 0.010	ANSULAR 0-90 • 0.25		HARDNESS DEPTH	DESIGNED BY	T HIG	DON	
ON CONTROL	31	0-90 ± 0.25° 91-180 ± 0.56° 161-270 ± 0.75° 271-360 ± 1.06°	UNIESS	SURFACE PREPARATION	SCALE	SHEET 1 DF 1	SIZE	
	GEDHETRIK (INCHES)			FINISH	DRAWING NO.			
	0.05-10 ± 0.005 1120 ± 0.010 2130 ± 0.015 3140 ± 0.020	0.05-20 0.005 2140 0.010 4150 0.015 51100 0.020	₹	(6) (1) THIS DRAWING IS THE PROPERTY OF STAR MACHINE. IT SHALL NOT BE DISCLOSED OR COPED MITHOLIT				
- 17	4450 ± 0.030 51100 ± 0.050	@ 0.002 [] 0-100 0.045	맖	THE WRITTEN AUTHORIZATION OF STAR MACHINE.				

