Belvac Production Machinery
Technical Bulletin
Information for Customers Operating & Maintaining Belvac Machines

ISSUE 3, VOLUME 13, JULY 2010

FOR ALL MODULAR BASE NECKER SYSTEMS

MODULAR TRANSFER BEARING HOUSING LIFE on BRAKE and DRIVE SHAFTS

Some customers have experienced premature failure of their modular machine transfer front bearing (#C22826, Item #5413) on shafts coupled to the brake or main drive. The general source of this failure is greasing the coupling too frequently or supplying too much grease at one time using a pneumatic grease gun.

As seen in Figure #1, if the cavity is full of grease, excessive grease pressure inside the coupling is generated. This pressure forces the transfer shaft against the front bearing, held in position thru the retaining ring (Item #5418) as seen in Figure #2.

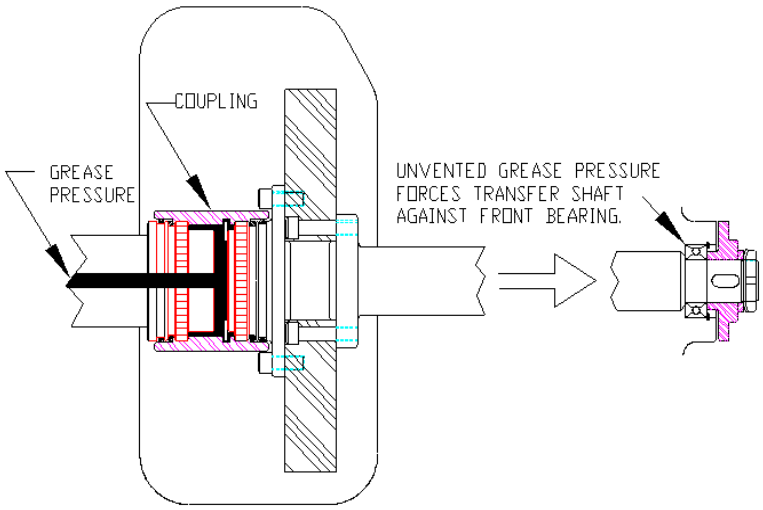

FIGURE #1

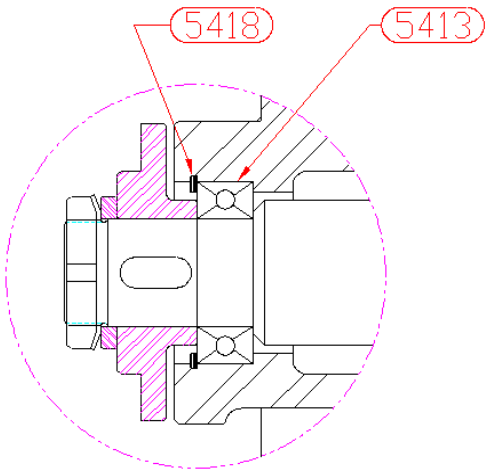

FIGURE #2

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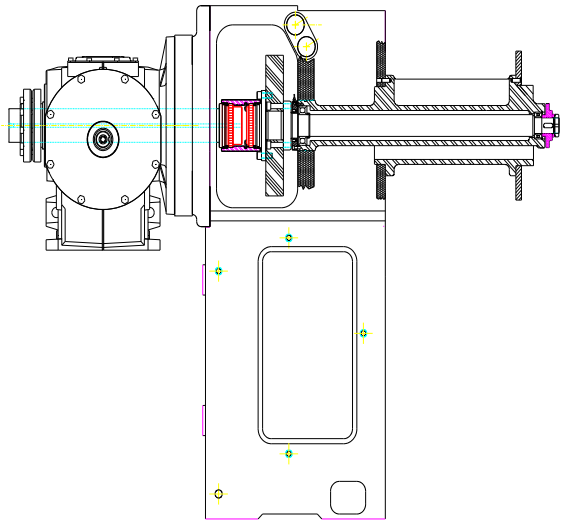
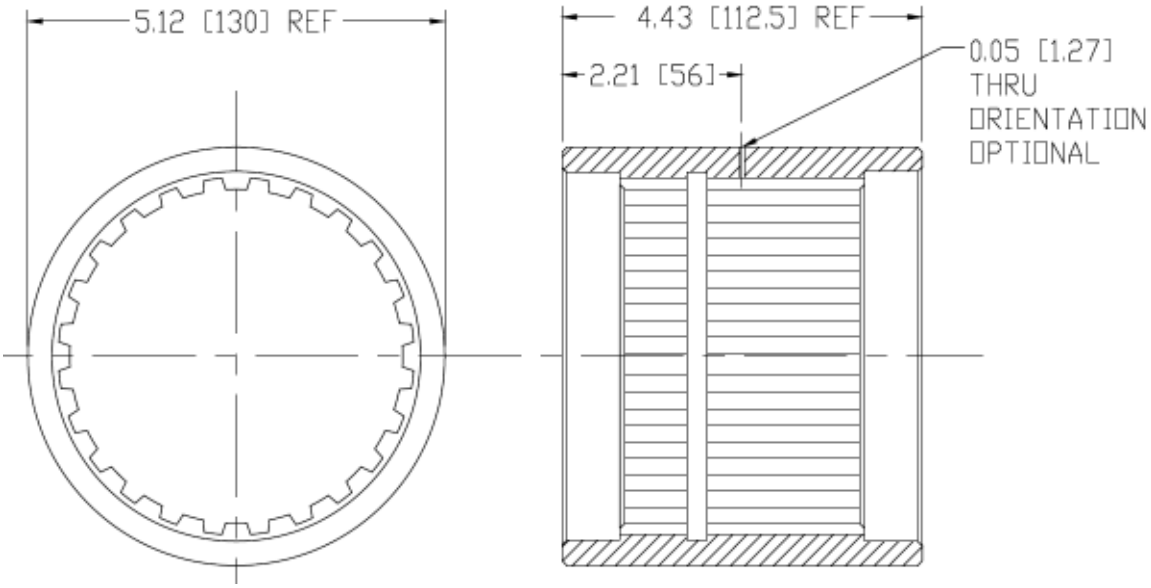


To rectify this problem, two solutions are offered:

1. Ensure greasing of the coupling takes place “Quarterly” with two shots of grease as indicated in the manual, using a manual grease gun, not a pneumatic grease gun.
2. Modify the shaft coupling with the addition of a 0.05" (1.3mm) grease relief hole as a precaution. This relief hole is small enough to prevent oil splash from entering the coupling, but allows depressurization should it be necessary. This may be field modified as shown below: be sure to fully clean out any shavings before reinstallation and greasing.



All machinery and spare part couplings shipped from July 2008 onward have the coupling with depressurization hole.

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