

"Superior Products are the User's Advantage."

SERVICE MANUAL FOR CIRCLE DYNAMICS INC. DBR – BAR MOUNT MIXER DRIVE

WARNING

This product is intended for use in an industrial mix room environment. It is the user's responsibility to ensure that all forms of external energy are removed from the product prior to servicing to eliminate the risk of being injured by rotating parts during service.



FAILURE MODES

This product is only to be used in accordance with Circle Dynamics instructions for use and application. Any other application may result in serious injury.

Fig 1.

INSTALLATION (Refer to Fig. 1)

- Remove set screw (8). Add Loctite 242 (loctite blue) to the set screw and re-install.
- Align setscrew (8) in drive shaft with flat on air motor driveshaft.
- Slide drive shaft of DBR mount on to air motor shaft and finger tighten setscrew (8).
- Rotate the drive *housing* (7) until the three mounting holes line up with the threaded air motor holes.
- Install three hex head screws (23) and washers (22) and tighten securely.
- Loosen connecting setscrew ¼ of one turn to relieve axial load and re-tighten securely.
- Pull clamp lever back (21) align coupling (15) with the prop shaft of the tank and set drive unit to top of tank. Release clamp leaver (21) to secure the DBR mount to the tank.

REBUILD INSTRUCTIONS FOR CIRCLE DYNAMICS DBG DRIVE UNIT

DISASSEMBLY

- 1) Disconnect any energy source and remove motor and drive unit from barrel by pulling back on the clamp lever (21) and pulling up on the motor/bar mount assembly.
- 2) Remove *setscrew* (8) from *drive shaft* (1).
- 3) Remove *mounting bolts* (22) and *washers* (23) from air motor and remove air motor.
- 4) Remove *hex bolt* (5) and *washer* (6) and remove the motor mount assembly away from the bar assembly.
- 5) Press *shaft* (1) out of *housing* (7).

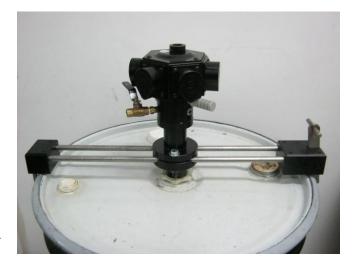


Fig. 2

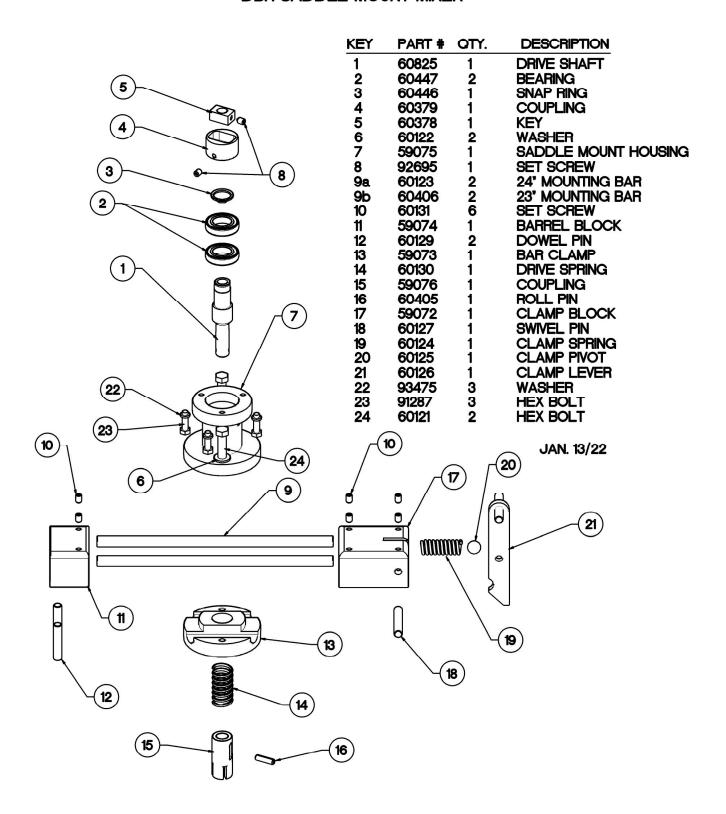
- 6) Press roll pin (16) out from coupling (15) and remove coupling (15) and spring (14).
- 7) Remove *snap ring* (4) form *drive shaft* (1)
- 8) Press bearings (2) and bearing spacer (3) from drive shaft (1).
- 9) Clean and dry components (1), (3), (4), (8), and (7) and prepare for re-assembly.

ASSEMBLY

- 1) Press bearings (2) and bearing spacer (3) on to drive shaft (1).
- 2) Install *snap ring* (4) on drive *shaft* (1).
- 3) Press assembled *drive shaft unit* (1) all the way into *housing* (7).
- 4) Slide *spring* (12) and *coupling* (15) over end of *drive shaft* (1) press *roll pin* (16) through *coupling* (15) / *shaft* (1).
- 5) Sandwich mounting bars (9) between the housing (7) and bar clamp (13).
- 6) Install hex bolt (5) and washer (6) through housing (7) and into bar clamp (13). Tighten securely.
- 7) Refer to: *Installation* instructions on page 1 for assembly to a Doyle air motor.

Refer to installation instructions for assembly to Air Motor.

DBR SADDLE MOUNT MIXER



TECHNICAL DATA

Maximum Speed: 1100 RPM

Housing: Anodized Aluminum

Bearings: Sealed Ball

Shaft: 440C SS

THE CIRCLE DYNAMICS INC. WARRANTY AND DISCLAMERS

Items sold by Circle Dynamics Inc. and or all Doyle Products are warranted to be free from defects in material and workmanship for a period of one year from the date of purchase, provided said items are used according to Doyle Products said usages. Circle Dynamics Inc. liability is limited to the repair of, refund of purchase price paid for, or replacement in kind of at the sole option of Circle Dynamics Inc., any items proved defective, provided the allegedly defective items are returned to Circle Dynamics Inc. prepaid. There are no other warranties, expressed or implied, except as stated herein. There are no implied warranties of merchantability of fitness for a particular purpose, which are damages, if the possibility of such incidental or consequential damages has been made know to Circle Dynamics Inc., or is the direct result of a failure of a Doyle Product. Circle Dynamics Inc. reserves the right to discontinue the manufacture of any product or change product materials, design or specifications without notice.

Patent Pending
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