

“Superior Products are the User’s Advantage.”

SERVICE MANUAL FOR CIRCLE DYNAMICS INC. DTK TANK 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 applications. 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* (8) and re-install.
- Align *set screw* (8) in *drive shaft* (7) with flat on air motor driveshaft.
- Slide drive shaft on to air motor shaft and finger tighten *setscrew* (8).
- Rotate the drive *housing* (3) until the three mounting holes line up with the threaded holes of the air motor.
- Install three *hex head screws* (9) and *washers* (10) and tighten securely.
- Loosen connecting *setscrew* (8) ¼ of one turn to relieve axial load and re-tighten securely.
- Place gasket (1) on Tank Lid Install 3 or 4 mounting bolts, depending on tank pattern, and tighten securely.

Connect air supply to appropriate port and adjust flow control to set speed.

REBUILD INSTRUCTIONS FOR CIRCLE DYNAMICS DTK DRIVE UNIT

DISASSEMBLY

- 1) Disconnect any energy source and remove motor and drive unit from lid by removing bolts and *gasket* (1).
- 2) Remove *setscrew* (8) from *drive shaft* (7).
- 3) Remove *mounting bolts* (9) and *washers* (10) from air motor.
- 4) Remove Air Motor from *housing* (3).
- 5) Press *shaft* (7) from *housing* (3)
- 6) Remove *seal retainer plate* (11).
- 7) Remove *seals* (2) from *housing* (3) and discard.
- 8) Remove *snap ring* (4) from *drive shaft* (7).
- 9) Press *bearings* (5) and *bearing spacer* (6) from *drive shaft* (7).
- 10) Clean and dry components (1), (3), (4), (6), (7), (8) and (11) and prepare for re-assembly.



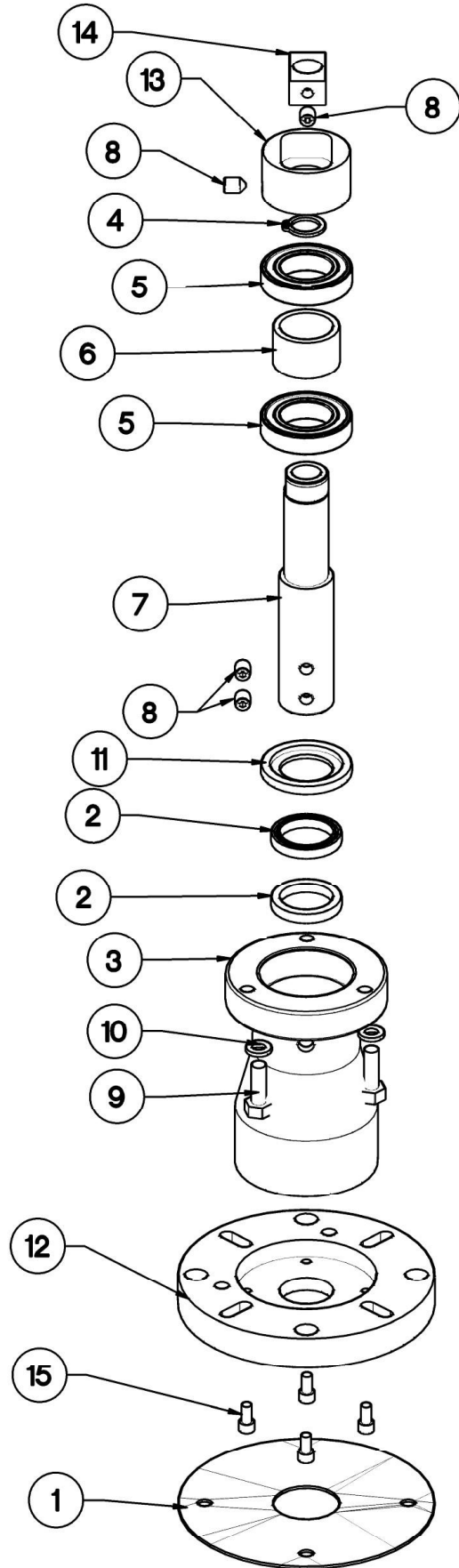
Fig. 2

ASSEMBLY

Rebuild kit 5910-2 contains parts (2) and (5).

- 1) Press *bearings* (5) and *bearing spacer* (6) on to *drive shaft* (7).
- 2) Install *snap ring* (4) on *drive shaft* (7).
- 3) Install one *seal* (2) in *housing* (3) with lip facing down.
- 4) Install second *seal* (2) in *housing* (3) with lip facing up.
- 5) Install *seal retainer plate* (11) with recess facing up.
- 6) Press assembled *drive shaft* (7) all the way into *housing* (3).

Refer to installation instructions for assembly to Air Motor.



**DTK TANK MOUNT MIXER
2018 MODEL**

KEY	PART #	QTY.	DESCRIPTION
1	60327	1	3 HOLE GASKET - 3.220" BOLT PATTERN
	60102	1	4 HOLE GASKET - 4.060" BOLT PATTERN
	60216	1	4 HOLE GASKET - 3.350" BOLT PATTERN
2	13125	2	TEFLON SEAL
3	60219	1	HOUSING
4	60446	1	SNAP RING
5	60447	2	BEARING
6	60570	1	SPACER
7	60482	1	4F - 1/2" FEMALE DRIVESHAFT
	60483	1	5F - 5/8" FEMALE DRIVESHAFT
	60484	1	6F - 3/4" FEMALE DRIVESHAFT
	60470	1	5M - 5/8" MALE DRIVESHAFT
8	92695	4	SETSCREW
9	91287	3	HEX HEAD BOLT
10	93475	3	WASHER
11	59059	3	SEAL RETAINER PLATE
12	60521	1	ADAPTOR PLATE
13	60379	1	COUPLING
14	60378	1	KEY
15	500-007	4	CAP SCREW

KEY	PART #	QTY.	DESCRIPTION
15	5910-2	1	DRIVE UNIT REPAIR KIT
			Contains:
		2	(5) 60447 BEARING
		2	(2) 13125 TEFLON SEAL

TECHNICAL DATA

Maximum Speed: 1100 RPM

Seals: Teflon

Housing: Anodized Aluminum

Bearings: Sealed Ball

Shaft: 440C SS

THE CIRCLE DYNAMICS INC. WARRANTY AND DISCLAIMERS

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.

<p>Patent Pending Copyright 2011 Circle Dynamics Inc. All rights reserved. Models and specifications subject to change without notice.</p>	<div data-bbox="824 1352 1333 1541" data-label="Image"> </div> <p>Circle Dynamics Inc. 171 A Rink Street, Suite 150 Peterborough, Ontario, Canada K9J 2J6 Tel: 1-705-768-3338 Fax: 1-705-740-1975 Email: jdoyle@circledynamicsinc.com Web: www.circledynamicsinc.com</p>
--	--