

BRAKE NUMBER 76208 SERVICE NOTES

FCO 29563 RFV F

THE MULTI-DISC BRAKE IS A SPRING-APPLIED, HYDRAULICALLY RELEASED BRAKE. HYDRAULIC PRESSURE IS REQUIRED TO RELEASE OR "HOLD OFF" THE BRAKE. NORMAL OPERATION IS TO HAVE THE BRAKE PRESSURIZED IN THE RELEASED POSITION WITH THE VEHICLE HYDRAULIC SYSTEM RUNNING. ANY FUNCTION WHICH REDUCES THE HYDRAULIC SYSTEM BELOW THE RELEASE PRESSURE OF THE BRAKE WILL CAUSE THE BRAKE TO BE APPLIED.

CAUTION:

FOR CORRECT OPERATION, HYDRAULIC PRESSURE TO THE BRAKE MUST FALL TO ZERO PSI. ANY RESIDUAL BACK PRESSURE APPLIED TO THE BRAKE WILL DEGRADE FUNCTION AND MAY RESULT IN A HAZARDOUS CONDITION.

INSTALLATION INFORMATION:

ASSEMBLE BRAKE BETWEEN MOTOR AND GEARBOX. PLACE MOUNTING GASKETS ON THE MOUNTING FACES BEFORE ASSEMBLY. IF NEEDED, BRAKE SHAFT CAN BE ROTATED BY APPLYING HYDRAULIC PRESSURE TO THE PISTON INLET PORT.

INSERT FOUR 1/2" DIA. BOLTS (GRADE 5) THROUGH THE MOTOR FLANGE, THE GASKET, THE BRAKE, AND INTO THE THREADED HOLES IN THE GEAR REDUCER. MAKE SURE THAT THE BOLTS ARE NOT TOO LONG, SO THEY DO NOT BOTTOM OUT IN THE THREADED HOLES OF THE GEAR REDUCER.

THE GLAK REDUCER.

TO PREVENT BINDING, RUN THE BOLTS IN ALTERNATELY UNTIL SNUG. TORQUE BOLTS TO 55-65 FT-LBS [75-88 Nm].

NOTE: THE SHAFTS MUST SLIDE TOGETHER FREELY. DO NOT USE THE BOLTS TO FORCE THEM TOGETHER.

WITH MOTOR AND BRAKE BOLTED TOGETHER INTO POSITION, CONNECT INLET HYDRAULIC LINE. BRAKE INLET IS 1/4" LINE STRAIGHT THREAD O-RING BOSS (7/16-20 UNF).

BRAKE DISASSEMBLY INFORMATION:

- DISASSEMBLE IN THE FOLLOWING ORDER: BOLTS (ALTERNATELY), POWER PLATE, GASKET, STATIONARY DISCS, ROTATING DISCS, PRIMARY DISC, TORQUE PINS, COMPRESSION SPRINGS, AND SPRING RETAINER. FURTHER DISASSEMBLY IS NOT RECOMMENDED AND SHOULD NOT
- BE ATTEMPTED UNLESS NECESSARY TO REPLACE THE BEARING, BE ATTEMPTED UNLESS NECESSARY TO REPLACE THE BETHE SEAL, OR THE SHAFT.

 NOTE: IF THE BEARING AND SEAL ARE REMOVED FOR ANY REASON, BOTH MUST BE REPLACED.

 2a. REMOVE SNAP RINGS AS NEEDED.

 2b. SEAL CAN BE REMOVED BY PRYING IT OUT WITH AN APPROPRIATE TOOL. TAKE CARE NOT TO DAMAGE THE BORE.

 2c. SHAFT CAN BE REMOVED BY PRESSING IT OUT WITH A SHOP PRESS

 - OUT WITH A SHOP PRESS.
- REMOVE THE PISTON FROM THE POWER PLATE BY INTRODUCING LOW PRESSURE AIR (15 ps; [I BAR]) INTO THE HYDRAULIC INLET. MAKE SURE THE PISTON IS DIRECTED AWAY FROM THE OPERATOR. DO NOT REMOVE O-RINGS AND BACKUP RINGS FROM THE O.D. AND I.D. GROOVES OF THE PISTON UNLESS REPLACEMENT IS NECESSARY, BECAUSE THEY WILL BE DAMAGED.

ASSEMBLY INFORMATION:

IMPORTANT: THERE MAY BE MORE PARTS IN A SERVICE
KIT THAN YOUR BRAKE REQUIRES. CHECK
THE PARTS LIST CAREFULLY FOR THE
EXACT QUANTITY. SPACE THE SPRINGS
AS SHOWN ON THE SPRING ORIENTATION VIEW.

USE THE REVERSE OF THE DISASSEMBLY PROCEDURE WITH THE FOLLOWING NOTES AND ADDITIONS:

- I. WORN AND DAMAGED O-RINGS AND BACKUP RINGS MUST BE REPLACED PRIOR TO RE-ASSEMBLY.
- 2. LUBRICATE THE PISTON BORE OF THE POWER PLATE, THE PISTON, AND THE O-RINGS WITH SYSTEM HYDRAULIC FLUID PRIOR TO RE-ASSEMBLY.
- 3. <u>PISTON ASSEMBLY:</u>
 ASSEMBLE PISTON INTO POWER PLATE USING A SHOP ASSEMBLE PISTON INTO POWER PLATE USING A SHOP PRESS. TAKE CARE NOT TO DAMAGE THE O-RINGS OR TEFLON BACKUP RINGS. VISUALLY ALIGN THE CENTER OF THE CUTOUTS IN THE PISTON WITH THE TORQUE PIN HOLES IN THE POWER PLATE.

 CAUTION: THE DEPTH THE PISTON IS INSTALLED INTO THE POWER PLATE IS CRITICAL. THE SURFACE OF THE PISTON AT THE CUTOUTS MUST BE FLUSH TO 0.120 [3,05 mm] BELOW THE SURFACE OF THE POWER PLATE, OR PISTON MAY COCK RESULTING IN A COMPLETE LOSS OF MAY COCK RESULTING IN A COMPLETE LOSS OF BRAKING.
- 4. BEARING ASSEMBLY:
 USE A SHOP PRESS TO PRESS THE BEARING ONTO
 THE SHAFT. PRESS ONLY ON THE INNER RACE OF THE
 BEARING. BEARING IS A SLIP FIT TO THE HOUSING.
- 5. <u>LIP SEAL ASSEMBLY:</u>
 LIP OF SEAL MUST FACE TOWARD THE BEARING.
 SEE CUTAWAY VIEW FOR SEAL ORIENTATION DETAIL.
- 6. ROTATING, STATIONARY, AND PRIMARY DISC ASSEMBLY: ROTATING DISCS MUST BE CLEAN & DRY. THE LINING MATERIAL AND MATING SURFACES OF THE STATIONARY DISCS MUST BE THOROUGHLY CLEAN AND FREE FROM DEBRIS. WORN OR SCARRED ROTATING DISCS MUST BE REPLACED.
- 7. INSTALL BOLTS IN THE POWER PLATE. TIGHT SEQUENTIALLY ONE TURN AT A TIME UNTIL POWER PLATE IS PROPERLY SEATED. TORQUE TIGHTEN BOLTS TO 80-90 FT-LBS [108-122 Nm].

FILL PROCEDURE:

UNSCREW THE TOP OIL FILL PLUG AND ADD DTE-26 OIL TO THE APPROPRIATE LEVEL.

SERVICE KIT INFORMATION:

BEARING KIT: PK - 933 - INCLUDES SEALS, RETAINING RINGS,

STACK KIT:

AND BEARINGS. PK - 1369 - INCLUDES TORQUE PINS,

PRIMARY, STATIONARY, ROTATING DISCS AND COMPRESSION SPRINGS.

PK - 1368 - INCLUDES O-RINGS O-RING KIT: BACKUP RINGS, AND INTERNAL GASKET.

GASKET KIT: PK - 679 - INCLUDES EXTERIOR

GASKET(S)

REF: GENERAL ASSEMBLY VIEW 8001

BRAKE NUMBER 76208 PARTS LIST ECO 29563 REV F ITEM PART DESCRIPTION OTY I 36359 COMPRESSION SPRING 16 2 36367 SPRING RETAINER 1 3 76206 HOUSING 1 4 76207 SPLINED SHAFT 1 5 36342 OIL SEAL 1 6 28427 GASKET 2 7 75071 PRIMARY DISC 1 8 75072 STATIONARY DISC 9 9 75395 PIPE PLUG 3 IO 74996 ROTATING DISC 8 II 73448 GASKET 1 I2 32833 BACKUP RING 1 I3 36701 O-RING 1 I4 76209 PISTON 1 I5 28285 RETAINING RING 2 I6 31218 HEX FLANGE SCREW 2 I7 28284 BALL BEARING 2 I8 27808 O-RING 1 19 27967 BACKUP RING 1 20 36337 POWER PLATE 1 21 28435 PROTECTIVE PLUG 1 22 76210 TORQUE PIN 2 23 29035 BLEEDER SCREW 1 24 75970 CAUTION TAG 1					
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