

BRAKE NUMBER 75110 SERVICE NOTES

FCO 27423 RFV G

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:

- I. ASSEMBLE BRAKE TO GEAR BOX. PLACE B-MOUNT GASKET ON MOUNTING FACE BETWEEN BRAKE AND GEAR BOX BEFORE ASSEMBLY. IF NEEDED, BRAKE SHAFT CAN BE ROTATED BY APPLYING
- HYDRAULIC PRESSURE TO THE PISTON INLET PORT.

 2. INSERT TWO UNLUBRICATED 1/2" DIA. BOLTS (GRADE 5) THROUGH 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.

 3. TO PREVENT BINDING, RUN THE BOLTS IN ALTERNATELY UNTIL SNUG. TOROUE BOLTS TO 75-85 FT-LBS [102-115Nm]. NOTE: THE SHAFTS MUST SLIDE TOGETHER FREELY. DO NOT USE THE BOLTS TO FORCE THEM TOGETHER
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 4. ASSEMBLE THE MOTOR TO THE BRAKE. PLACE THE MODIFIED A-MOUNT GASKET ON THE MOUNTING FACE BETWEEN BRAKE AND MOTOR.

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 5. INSERT MOTOR MOUNTING BOLTS THROUGH THE MOTOR FLANGE, THE GASKET, AND INTO THE THREADED HOLES OF THE BRAKE. USE EITHER FOUR NON-LUBRICATED 1/2" GRADE 5 BOLTS OR TWO NON-LUBRICATED 3/8" GRADE 5 BOLTS DEPENDING ON THE MOTOR MOUNT BEING USED.

 MAKE SURE THE BOLTS ARE NOT LONG, SO THEY DO NOT BOTTOM OUT
- ON THE THREADED HOLES IN HE BRAKE.

 6. TORQUE THE BOLTS AS FOLLOWS: FOR FOUR 1/2" DIA. BOLTS, USE 75-85 FT-LBS [102-115 Nm]; FOR TWO 3/8" DIA. BOLTS, USE 30-40 FT-LBS [41-54 Nm].
- 7. WITH THE BRAKE BOLTED TO THE GEAR REDUCER AND THE MOTOR BOLTED TO THE BRAKE, 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, THE SEAL, OR THE SHAFT.
 NOTE: IF THE BEARING OR 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.

REMOVE THE PISTON FROM THE POWER PLATE BY INTRODUCING LOW PRESSURE AIR (15 psi [1 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 ASSEMBLY.
- 2. LUBRICATE THE PISTON BORE OF THE POWER PLATE, THE PISTON, AND THE O-RINGS WITH SYSTEM HYDRAULIC FLUID PRIOR TO ASSEMBLY.
- 3. PISTON ASSEMBLY: 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.

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 BRAKING.

- 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.
- LIP OF SEAL MUST FACE AWAY FROM THE BEARING. SEE CUTAWAY VIEW FOR SEAL ORIENTATION DETAIL.
- 6. ROTATING, STATIONARY, AND PRIMARY DISC ASSEMBLY:
 ROTATING DISC 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 LUBRICATED BOLTS IN THE POWER PLATE TIGHTEN SEQUENTIALLY ONE TURN AT A TIME UNTIL POWER PLATE IS PROPERLY SEATED TORQUE BOLTS TO 80-90 FT-LBS [108-122 Nm].

OIL FILL PROCEDURE:

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

SERVICE KIT INFORMATION:

BEARING KIT: PK - 1320 - INCLUDES SEALS RETAINING RINGS, AND BEARINGS.

STACK KIT: PK - 1323 - INCLUDES TORQUE PINS, PRIMARY, STATIONARY, ROTATING DISCS AND

COMPRESSION SPRINGS.

PK - 1324 - INCLUDES O-RINGS, BACKUP RINGS, AND O-RING KIT. INTERNAL GASKET.

PK - 1356 - INCLUDES EXTERIOR GASKET KIT: GASKET(S).

REF: GENERAL ASSEMBLY VIEW 8001

BRAKE NUMBER 75110 PARTS LIST

PRODUCTS, INC. ECO 27423		REV G	
ITEM	PART	DESCRIPTION	QTY
	28426	GASKET	
2	75395	PIPE PLUG	2
3	75503	HOUSING	I
4	35875	TORQUE PIN	2
5	74554	SPRING RETAINER	
6	28963	COMPRESSION SPRING	8
7	28962	COMPRESSION SPRING	8
8	75121	SHAFT	I
9	34574	BEARING	I
10	37144	SEAL	I
	75540	SNAP RING	I
12	74553	PRIMARY DISC	I
13	74551	ROTATING DISC	4
4	74552	STATIONARY DISC	4
15	73741	GASKET	I
16	27966	BACKUP RING	I
17	27777	O-RING	I
18	27967	BACKUP RING	I
19	27808	O-RING	I
20	29035	BLEEDER	I
21	75109	PISTON	I
22	75502	POWER PLATE	I
23	73594	HEX HEAD BOLT	4
24	28863	MAB GASKET	I
25	74877	WASHER	4
26	31097	HEX SOCKET PLUG	I
27	75970	CAUTION TAG	



