

BRAKE NUMBER 82124 SERVICE NOTES

PRODUCTS, INC ECD 30393 REV D

THE MULTI DISC BRAKE IS A SPRING APPLIED 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 PRESSURE

IMPORTANT: THERE MAY BE MORE PARTS IN A SERVICE 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:

- INSTALL BRAKE ONTO GEARBOX USING (4) 1/2-13 SOCKET HEAD CAP SCREWS. PLACE MOUNTING GASKET ON THE MOUNTING SURFACE BEFORE ASSEMBLY. IF NEDED BRAKE SHAFT CAN BE ROTATED BY APPLYING HYDRAULIC PRESSURE TO THE PISTON INLET PORT. TORQUE THE BOLTS TO 80-90 FT-LBS.
- MOUNT MOTOR TO BRAKE USING (4) 1/2" DIA. BOLTS I (GRADE 5) AND LOCKWASHERS THROUGH MOTOR FLANGE AND INTO THE THREADED HOLES IN THE BRAKE. PLACE MOUNTING GASKET ON THE MOUNTING ! SURFACE BEFORE ASSEMBLY.
- TO PREVENT BINDING, RUN THE BOLTS IN ALTERNATELY UNTIL SNUG. THEN TORQUE THE BOLTS TO 75-85 FT-LBS.
 NOTE: THE SHAFTS MUST
 SLIDE TOGETHER FREELY. DO NOT USE THE BOLTS TO FORCE THE UNIT TOGETHER.
- WITH MOTOR AND BRAKE BOLTED TOGETHER INTO POSITION, CONNECT INLET HYDRAULIC LINE. BRAKE INLET IS 1/4" TUBING, 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
- 2. 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.

 20. REMOVE SNAP RINGS AS NEEDED.

 20. 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 I INTRODUCING LOW PRESSURE AIR (15 PSI) INTO THE HYDRAULIC INLET. MAKE SURE PISTON IS DIRECTED AWAY FROM OPERATOR. DO NOT REMOVE BACKUP RINGS OR O-RINGS UNLESS REPLACEMENT IS NECESSARY BECAUSE THEY WILL BE DAMAGED.

THERE MAY YOUR BRAKE REQUIRES. CHECK
THE PARTS LIST CAREFULLY FOR THE
EXACT QUANTITY. SPACE THE SPRINGS
AS SHOWN ON THE SPRING DRIENTATION.

I USE THE REVERSE OF THE DISASSEMBLY PROCEDURE WITH THE $_{\rm I}$ FOLLOWING NOTES AND ADDITIONS:

- 1. WORN OR DAMAGED O-RINGS AND BACKUP RINGS MUST BE REPLACED PRIOR TO REASSEMBLY.
 - 2. CYLINDER OF THE POWER PLATE, PISTON, O-RINGS, AND BACKUP RINGS MUST BE PRE-LUBED WITH SYSTEM HYDRAULIC FLUID PRIOR TO REASSEMBLY.
- 3. PISTON ASSEMBLY:
 ASSEMBLE PISTON INTO POWER PLATE USING A
 SHOP PRESS, TAKE CARE NOT TO DAMAGE THE
 O-RING 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 BELOW THE SURFACE OF THE POWER PLATE, OR PISTON WILL 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
 BEARING. BEARING IS A SLIP FIT TO THE HOUSING.
- LIP SEAL ASSEMBLY: LIP OF SEAL MUST FACE AWAY FROM THE BEARING. SEE CUTAWAY VIEW FOR SEAL ORIENTATION
- 6. ROTATING, STATIONARY, AND PRIMARY DISC ASSEMBLY:
 RUTATING DISCS MUST BE CLEAN. THE LINING
 MATERIAL AND MATING SURFACES OF THE
 STATIONARY DISCS MUST BE THOROUGHLY CLEAN
 AND FREE FROM DEBRIS. WORN OR SCARRED
 RUTATING DISCS MUST BE REPLACED.
- 7. INSTALL BOLTS IN THE POWER PLATE, TIGHTEN SEQUENTIALLY, ONE TURN AT A TIME, UNTIL POWER PLATE IS PROPERLY SEATED, TORQUE BOLTS TO 85-90 FT-LBS.

SERVICE KIT INFORMATION:

PK - 1144 - INCLUDES RETAINING RINGS, BEARING KIT: BEARINGS, AND DIL SEAL.

PK - 932 - INCLUDES TORQUE PINS, STACK KIT: PRIMARY, STATIONARY, ROTATING DISCS, AND COMPRESSION SPRINGS & SEPARATOR SPRINGS.

PK - 931 - INCLUDES D-RINGS, BACKUP RINGS, **D-RING KIT:** AND INTERNAL GASKET.

PK - 691 - INCLUDES EXTERNAL GASKETS. GASKET KIT:

GENERAL ASSEMBLY VIEW REF: 8001

BRAKE NUMBER 82124 PARTS LIST ECN 30393 REV D								
	ITEM	PART	DESCRIPTION	QTY				
	1	36359	COMPRESSION SPRING	10				
	2	36367	SPRING RETAINER	1				
	3	36345	HOUSING	1				
	4	28285	RETAINING RING	1				
	5	28284	BALL BEARING	1				
	6	38076	76 SPLINED SHAFT					
	7	36342	DIL SEAL	1				
	8	38177	RETAINING RING	1				
	9							
	10	29757	GASKET	Ī				
	11.	36336	TORQUE PIN	5				
	12	75701	PRIMARY DISC	I				
	13	36346	STATIONARY DISC	6				
	14	36224	ROTATING DISC	5				
	15	32833	BACKUP RING	1				
	16	36701	U-RING	1				
	17	29284	COMPRESSION SPRING	10				
	18	75723	PISTON	1				
	19	38062	POVER PLATE	1				
	50	37176	PRESSURE RELIEF VALVE	1				
	21	28435	PROTECTIVE PLUG	1				
	22	33021	SUCKET HEAD SCREW	5				
	53	27808	D-RING	1				
	24	27967	BACKUP RING	1				
	25	35966	GASKET	1				
	26	6 29035 BREEDER SCREW						

