

Product: EXCAVATOR
 Model: 225 EXCAVATOR 20S
 Configuration: 225 EXCAVATOR 20S00001-UP (MACHINE)

**Disassembly and Assembly
 215B & 225 HYDRAULIC PUMP AND MOTORS (PISTON TYPE)**

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Motors (Swing And Track)

SMCS - 5058-015; 5058-016

Disassemble Motors (Swing And Track)

NOTE: There are several sizes of the bent axis type motors. Only one size of motor is shown here, however, the disassembly and assembly remains the same for all sizes. Special tools that are needed for a particular size of motor are identified in the tool chart by motor type.

It is necessary to see two tool charts for a complete listing. Special tools are common for all motors are listed in the first tool chart. Special tools for a particular size of motor are identified in the other tool charts by motor type.

Tools Needed		A	B
All Motor Types			
5P4758	Snap Ring Pliers	1	
8B7552	Threaded Rod [5/8"-18 x 305 mm (12 in.) long]		1
3H465	Plate		5
1B4206	Nut (5/8"-18)		1
5P4808	Cap		2
8B7548	Push-Puller Assembly		1
8B7550	Leg		2
1B4207	Nut (3/4"-16)		2

Tools Needed		A	B
Motor Type AA2F 63			
8T9139	Adapter*		1
8T9140	Adapter*		2
0L1732	Bolt [1/2"-20 x 76 mm (3 in.) long]		2
5P8245	Washer (1/2")		2

*These tools will be available 7/86.

Tools Needed		A	B
Motor Type AA2F 80			
8T9139	Adapter*		1
8T9140	Adapter*		2
0L1732	Bolt [1/2"-20 x 76 mm (3 in.) long]		2
5P8245	Washer (1/2")		2

*These tools will be available 7/86.

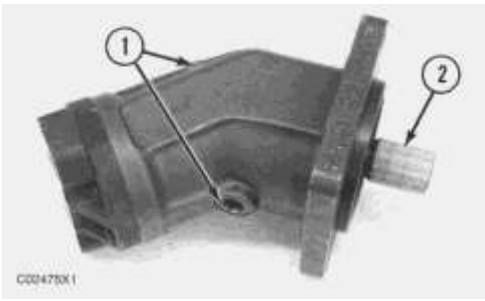
Tools Needed		A	B
Motor Type AA2F 107			
8B7556	Adapter		1
8B7555	Adapter		2
0S1575	Bolt [3/4"-16 x 76 mm (3 in.) long]		2
5H1504	Washer (3/4")		2

Tools Needed		A	B
Motor Type AA2F 131			
8B7556	Adapter		1
8B7555	Adapter		2
0S1575	Bolt (3/4"-16 x 76 mm (3 in.) long]		2
5H1504	Washer (3/4")		2

START BY:

- a. remove track motor
- b. remove swing motor

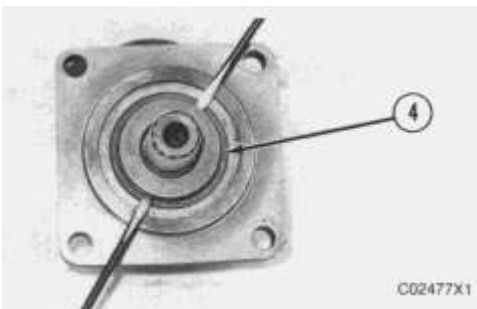
1. Put plugs in the open oil passages. Clean the outside of the motor thoroughly.



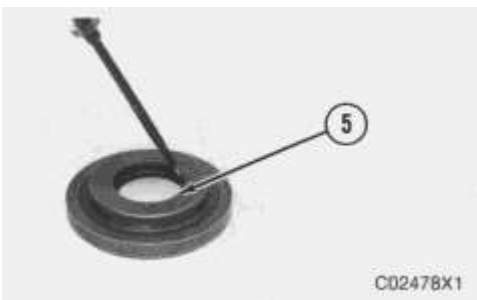
2. Remove the plugs from two case drain holes (1). Drain any oil from the motor that remains.
3. Put tape around splined drive shaft (2) to prevent damage to the drive shaft or seals during disassembly of the motor.



4. Tap the cover with a plastic hammer to release some of the pressure against retaining ring (3). Use tool (A), and remove retaining ring (3).

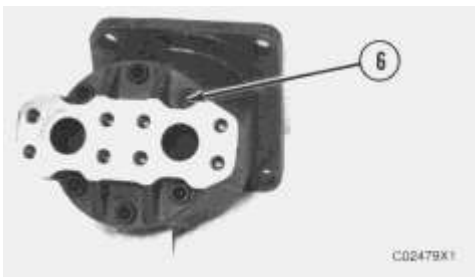


5. Use two screw drivers, and remove front cover (4). Remove the O-ring seal and the shims that are behind front cover (4).



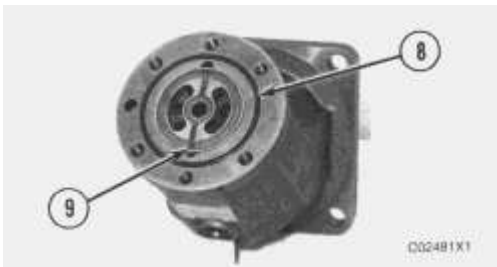
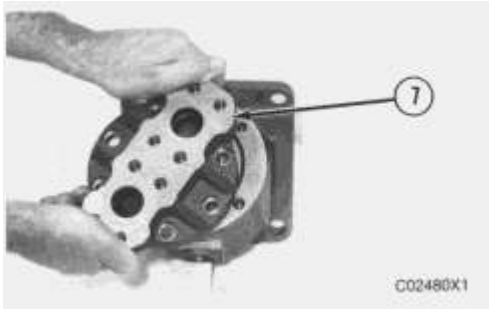
NOTE: Pump drive shaft seal (5) will be destroyed if it is removed from front cover (4).

6. Remove lip-type seal (5) from the front cover.



7. Turn the motor around, and put alignment marks on the rear cover plate and the motor housing for assembly purposes.

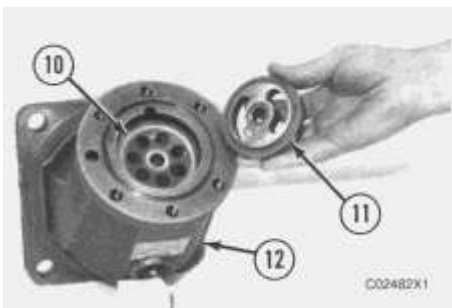
8. Remove six bolts (6) and lockwashers that hold the rear cover plate to the motor housing.



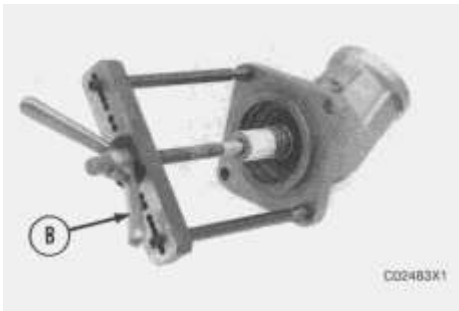
9. Rotate rear cover plate (7) on the locating pin, and remove it from the motor housing.

10. Note the position of locating pin hole (9) on the control plate that the locating pin in rear cover plate (7) was removed from.

11. Remove O-ring seal (8) from the motor housing.



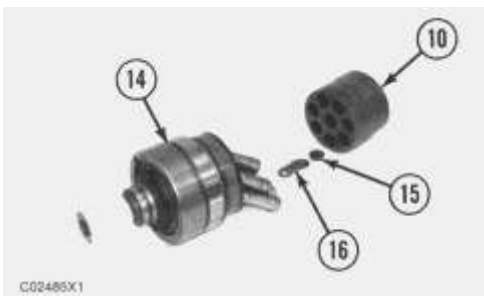
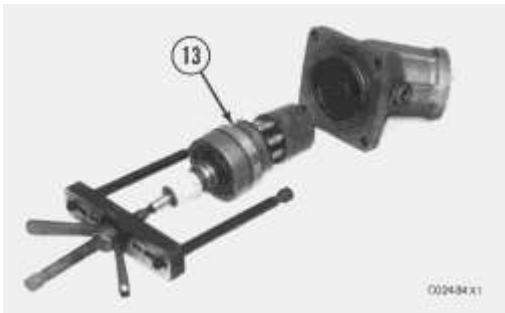
12. Remove control plate (11) from motor housing (12). Note the condition of the bronze surface on cylinder block (10) and the mating surface of control plate (11).



NOTICE

Use only a puller such as tooling (B) to remove the rotary group. Do not use a slidehammer type puller or damage to the motor may result.

13. Use tooling (B), and remove the rotary group from motor housing (12). Make sure cylinder block (10) does not bind as it is pulled through the motor housing.



14. Remove tooling (B) from rotating group (13).

15. Pull cylinder block (10) from the drive shaft and piston assembly (14).

16. Remove four Bellville washers (16) and spring collar (15) from the center pin bore of cylinder block (10).

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