

# **600 Series Cotton Picker Drum Overhaul**

**Service Manual**

**GSS-1413**

**Reprinted**

***CASE III***

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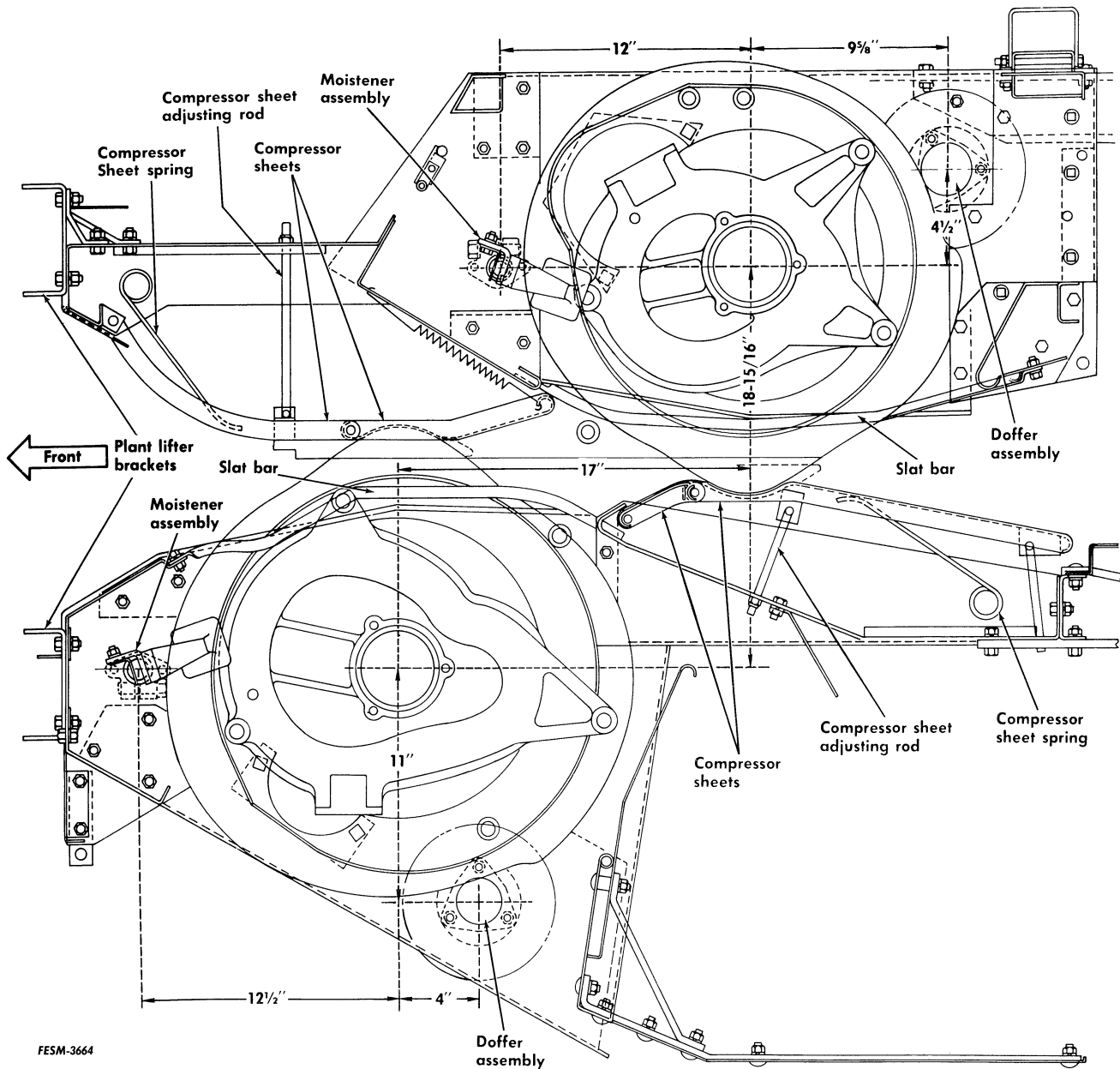
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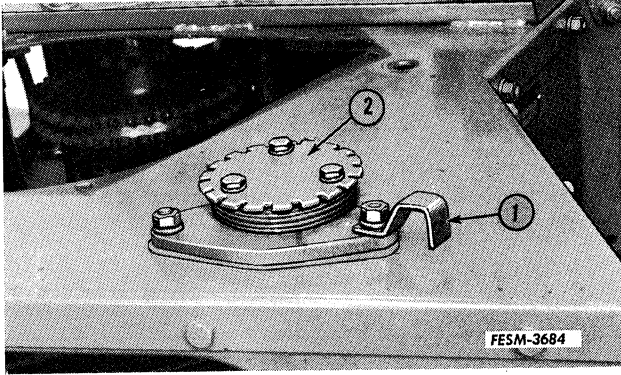
## DESCRIPTION AND PRINCIPLES OF OPERATION



The various points to be covered and procedures outlined in this manual are a guide for complete overhaul. If you are performing emergency field or shop service, you will use only the steps that are applicable to the problem at hand. Re-view the "Contents" and determine which steps will be required. But remember, it is better to do extra work than not to

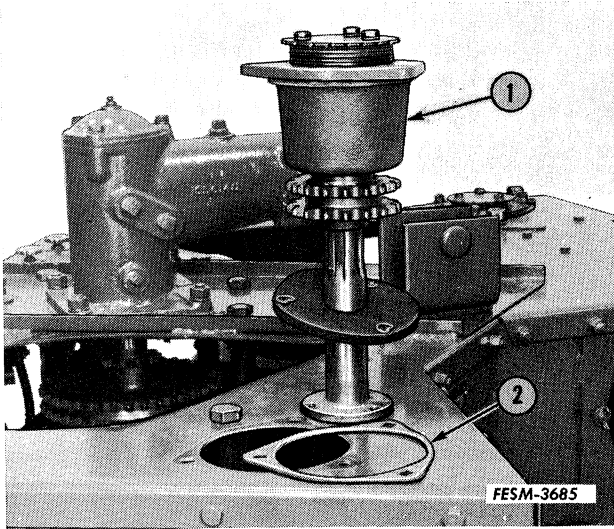
do enough.

International two row cotton pickers are designed so that, as they move down the row, they pick from both sides of the plants. While being picked, the plants are compressed and held against the spindles by spring actuated compression sheets.



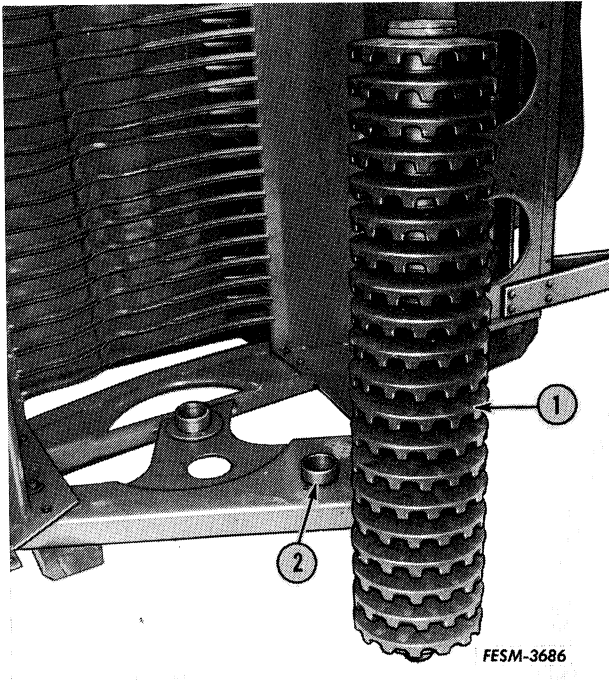
2. Unlock the adjusting screw lock (1). Raise the adjusting screw (2), to separate the upper doffer drive shaft from the lower shaft.

- 1. Adjusting screw lock
- 2. Adjusting screw



3. Remove the cap screws securing the doffer drive assembly (1) to the drum box. Remove the doffer drive assembly (1) with the support plate (2).

- 1. Doffer drive assembly
- 2. Support plate



4. Remove the doffer assembly (1) and lower bearing cage (2).

- 1. Doffer assembly
- 2. Lower bearing cage

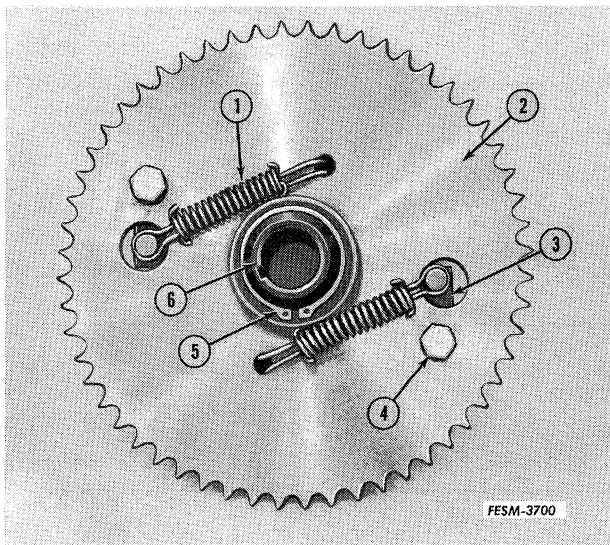
## Drive Chains

Check the drum drive, moistener drive and spindle and doffer drive chains for excessive wear. Refer to the following chart for specified chain lengths and allowable wear.

Chain	Original Length (inches)*	3% Allowable Wear (inches)
Drum drive	108-3/4	3-1/4
Spindle and doffer drive (double)	141-1/4	4-1/4
Moistener drive	75-3/4	2-1/4

\* NOTE: All lengths include one connecting link.

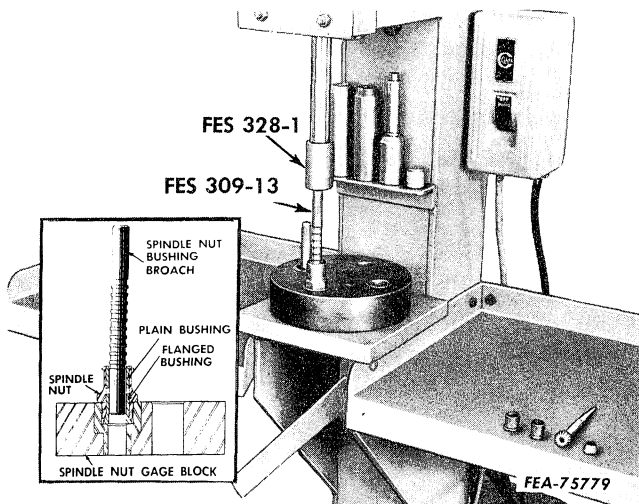
## Rotor, Spindle Drive and Cam Assembly



1. Check the Protic-O-Matic assembly for broken springs (1), worn ratchet (6), worn pawls (3) and worn sprocket (2).

2. Lubricate the ratchet hub (6) before reassembly using IH 251 HEP grease.

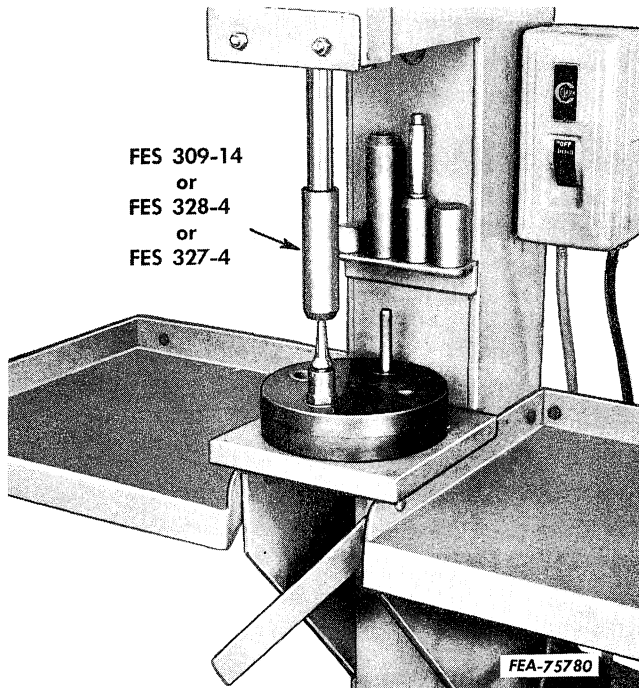
- 1. Spring
- 2. Drum drive sprocket
- 3. Ratchet pawl
- 4. Cap screw
- 5. Retainer snap ring
- 6. Safety clutch ratchet



24. Check the size of each bushing and broach if undersize or run the broaching tool through each nut.

**NOTE:** When replacing bushings, be sure that the bore of the spindle nut is clean and that you use the correct tools for making the assembly.

25. Inspect each nut after broaching to be sure the plain bushing has not moved down against the flanged bushing. If this has happened, the bore of the spindle nut is oversize and the nut should be replaced.



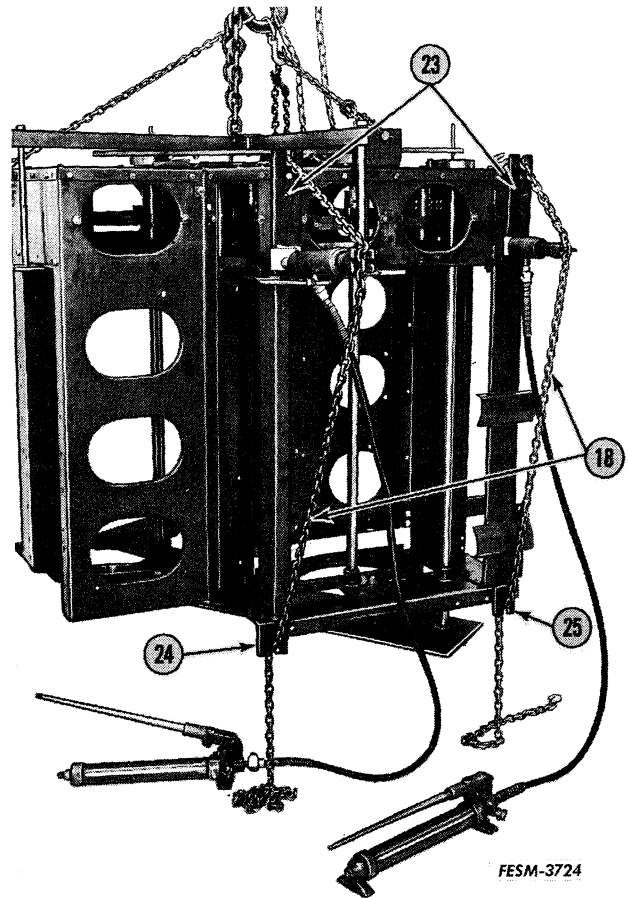
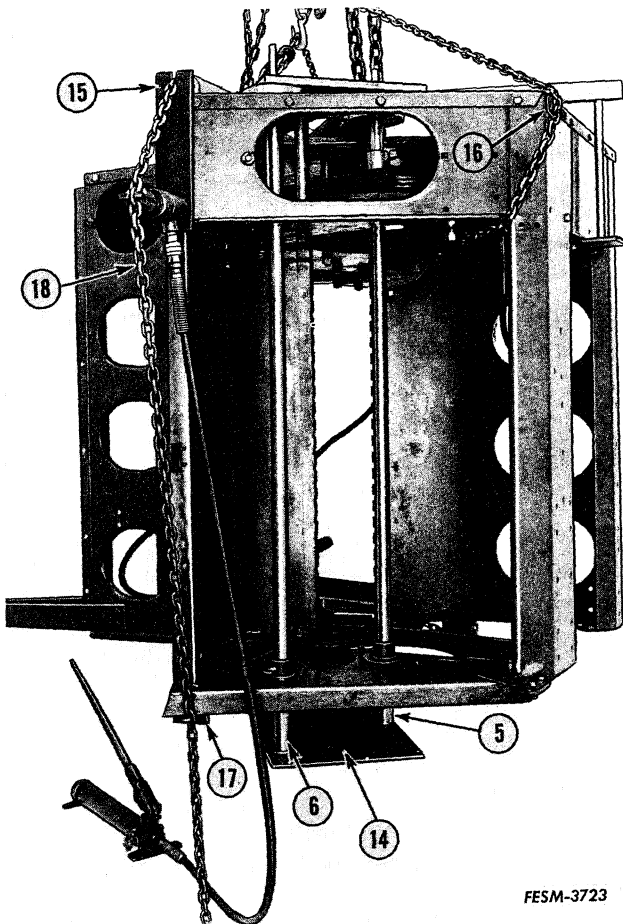
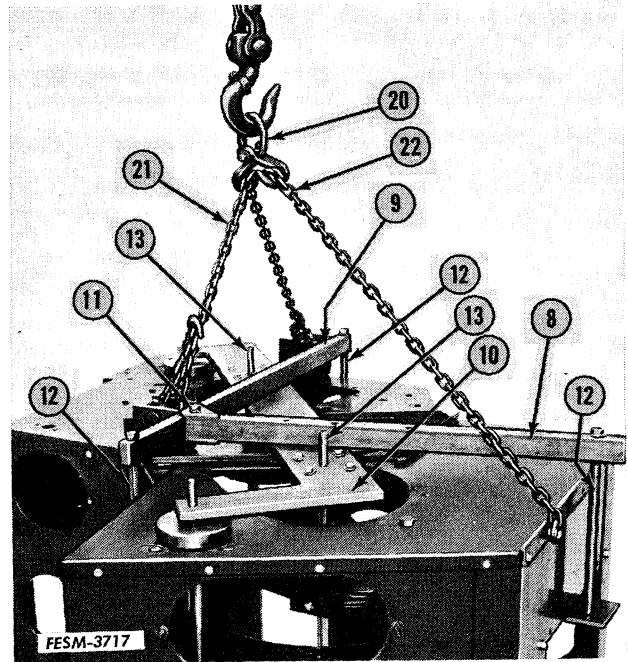
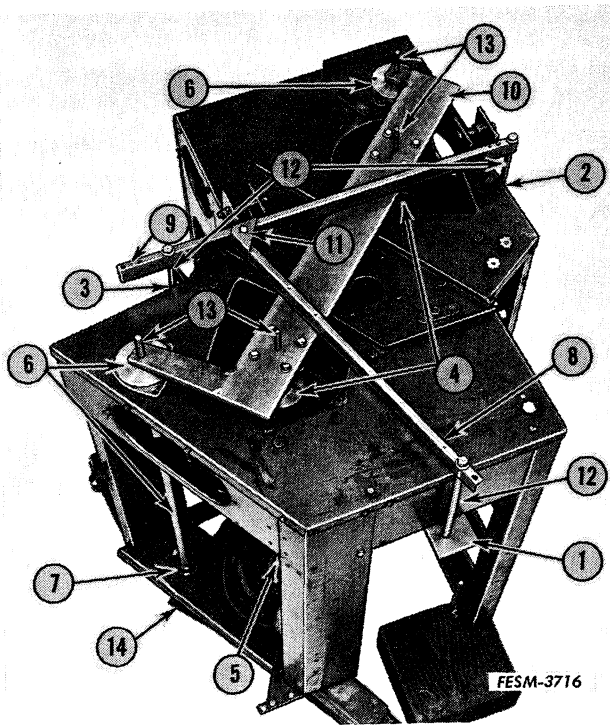
26. Place the spindle through the nut and install the shield over the upper end. Use the fixture and a press to seat the shield firmly into position.

(a) Press on shield until .010 to .015 end play is obtained. Location of the shield controls the end play of spindle in bushings.

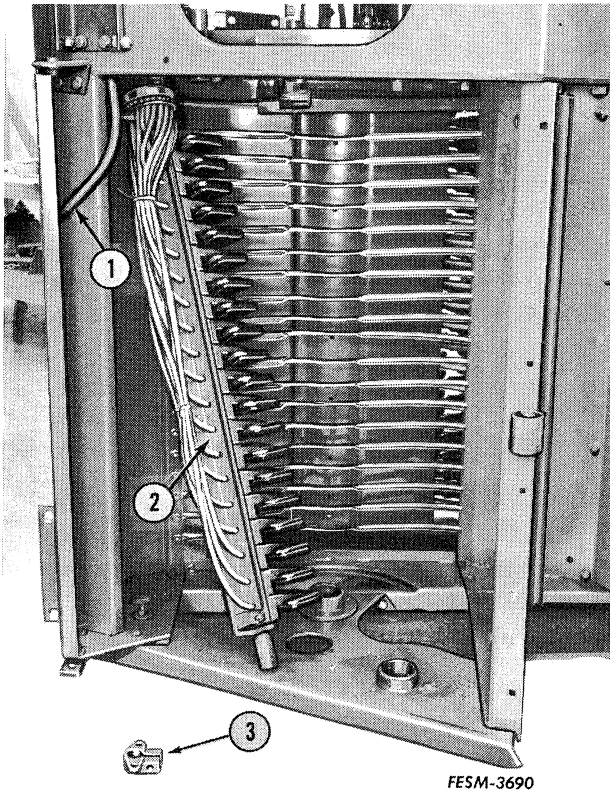
**NOTE:** If the press fit is not sufficiently tight the shields will turn on the spindles and result in early failure. The shields should be replaced.

27. Replace spindle drive shaft bushings if they show scoring, chips, or O.D. wear of two to three thousandths of an inch.

28. Check I.D. of bushing and replace if worn more than .002 - .003 inch. I.D. is not as critical as the O.D.



## Moistener



1. Position the moistener assembly in the drum.

2. Connect the water hose (1) to the top of the moistener assembly.

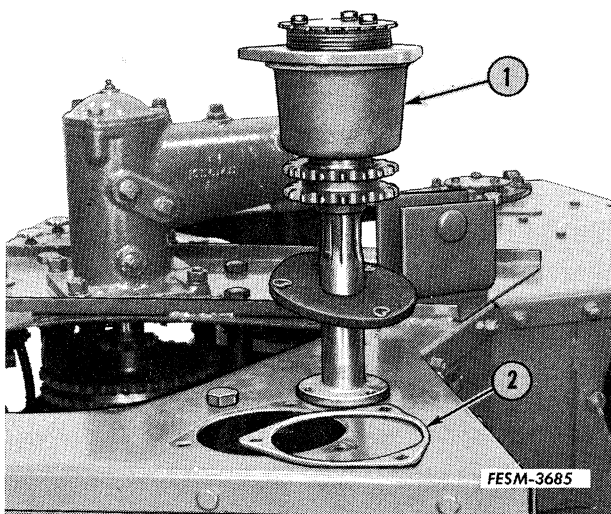
3. Install the moistener adjusting clamp (3) on the tube support assembly (2), and secure it with bolts to the drum bottom plate.

4. Tighten the cap screw in the adjusting clamp.

5. Install the moistener distributor sprocket and drive housing assembly.

- 1. Water hose
- 2. Moistener tube support assembly
- 3. Moistener adjusting clamp

## Doffer



1. Position the doffer assembly in the drum.

2. Align the bearing cage with the shaft bearing, and secure to the drum bottom plate with the cap screws.

3. Position the doffer drive assembly (1) with support plate (2) in the drum.

- 1. Doffer drive assembly
- 2. Support plate

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