

# SHOP MANUAL

**BINDER**  
GRADER  
ROLLER

**GALION MANUFACTURING COMPANY, Galion, Ohio 44833, U.S.A.**  
a Jeffrey Galion Inc. Company

**FILE**  
**B**

**SECTION**  
**6**

## CONVERTER OUTPUT SHAFT GOVERNOR

3/74

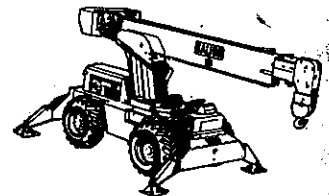
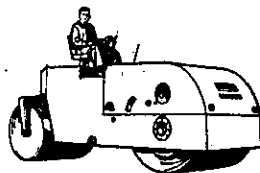
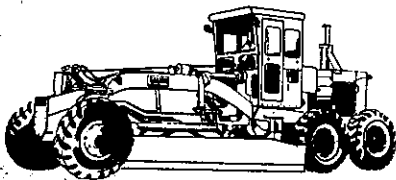
The instructions in this section basically apply to all governors used on Galion Grade-O-Matic graders and Roll-O-Matic rollers

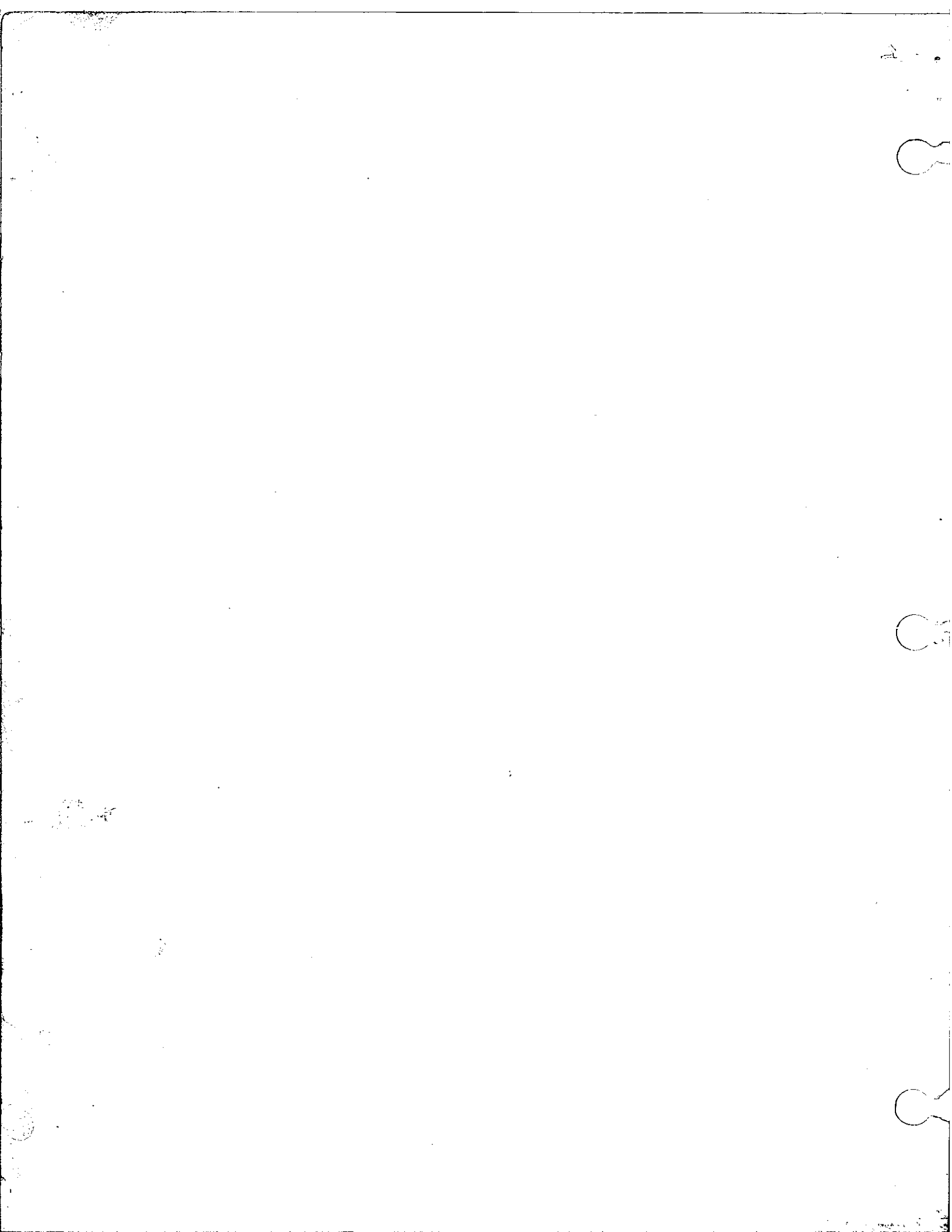
Adjustment of governor to engine fuel system procedure is found in the unit operator's manual.

Lubricating instructions for governors not having pressure lube supply are found in the unit operator's manual.

### CONTENTS

	<u>PAGE</u>
Disassembly -----	1 - 7
Assembly -----	7 - 13



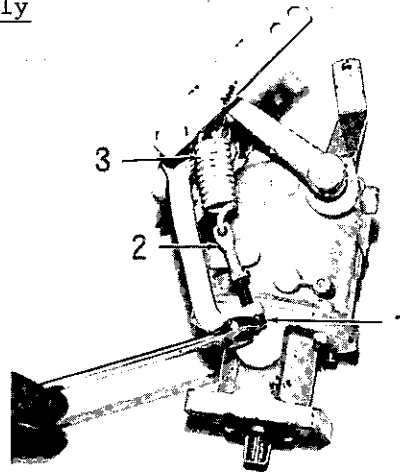




1

Disassembly

Remove adjusting screw eye lock nut (1),  
adjusting screw eye (2), and governor spring (3).



1338

2

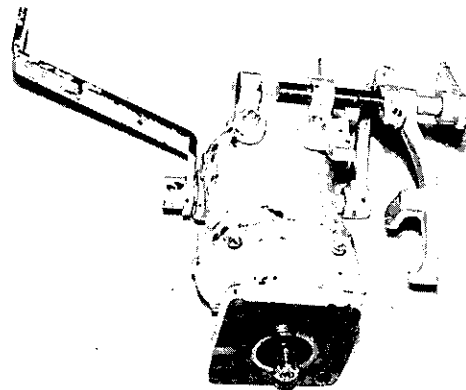
Remove speed change shaft snapping and washer.



1339

3

Remove speed change lever and shaft and  
speed change spring lever as an assembly.

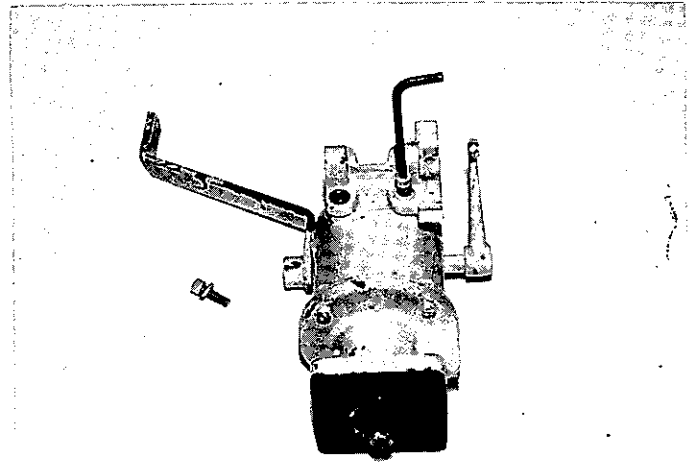


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4

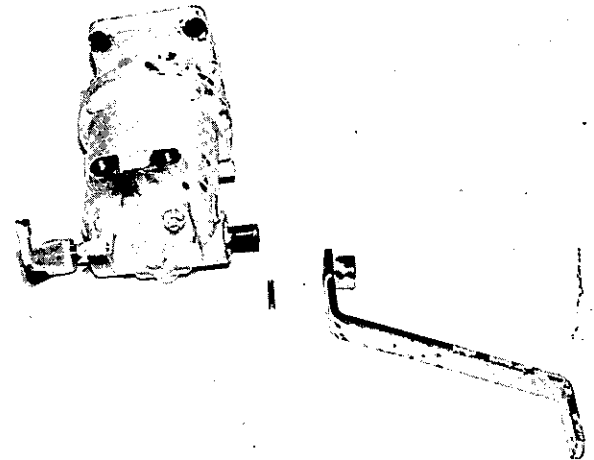
Remove speed change bracket.



1341

5

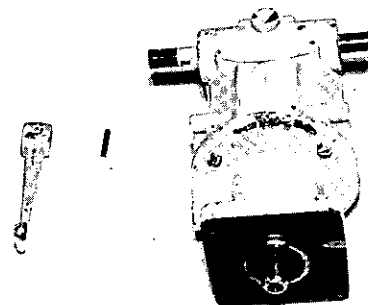
Remove throttle lever roll pin.  
Remove throttle lever from rocker shaft.



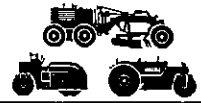
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6

Remove spring lever roll pin.  
Remove lever from rocker shaft.



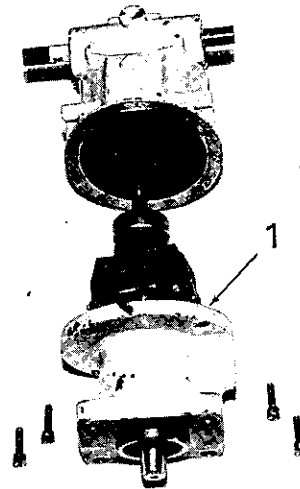
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7

Remove four body-to-base attaching screws.

Remove body and gasket (1) from base.

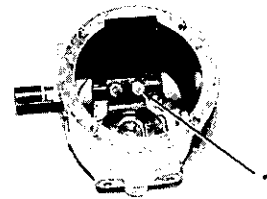


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8

Remove capscrews from rocker yoke (1).

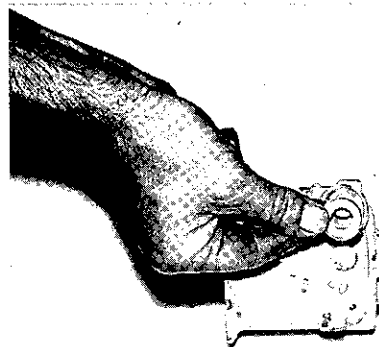
Remove yoke from body.



9

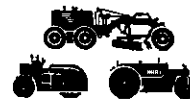
Remove oil seal.

Body seal consists of two parts--a metal backup washer and a neoprene seal.



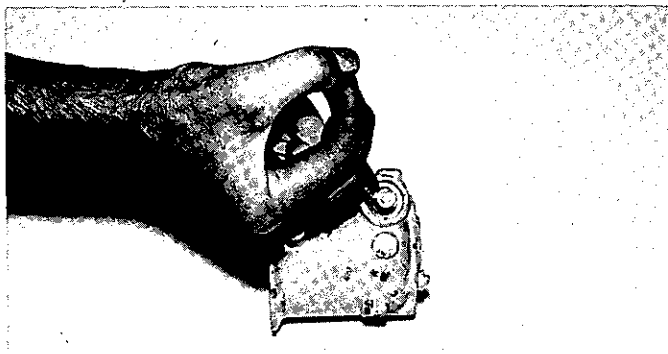
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10

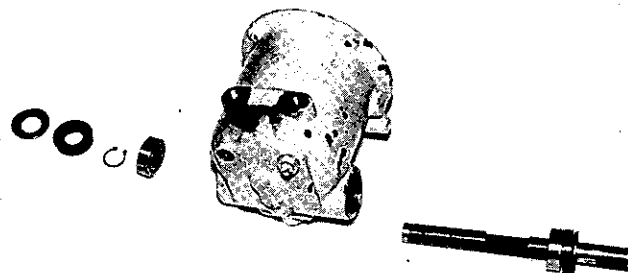
Remove snapping from rocker shaft.



11

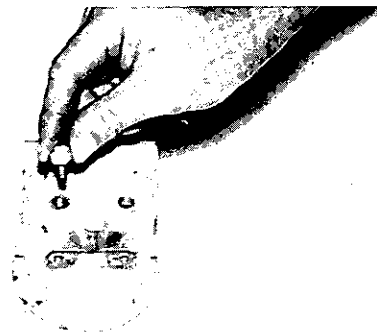
Move shaft through bearing and body.

Bearing, seal, and snapping at opposite end of shaft will remain on shaft.



12

Remove bumper screw from body.

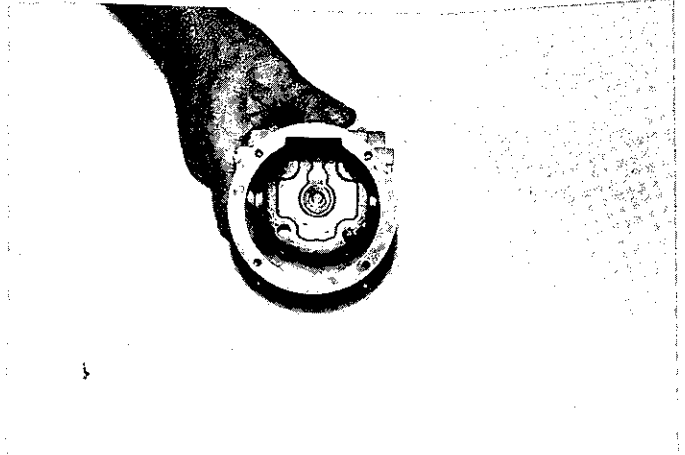




13

Examine body bushing for wear.

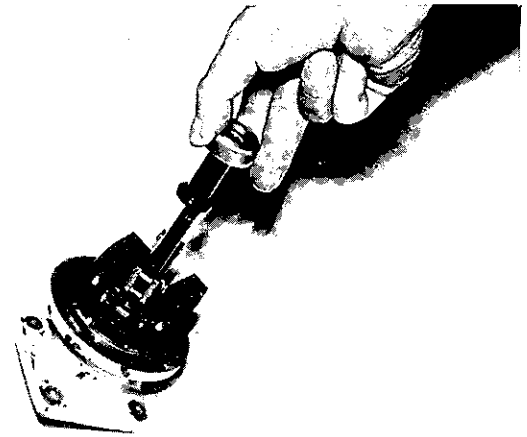
Do not remove bushing unless replacement is needed.



1350

14

Remove thrust sleeve and bearing from spider and shaft assembly.



1351

15

Remove thrust bearing from thrust sleeve.



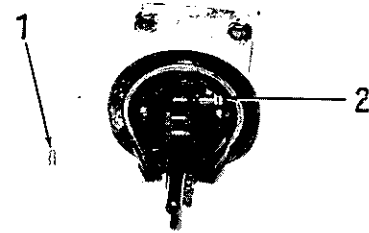
1352



16

Remove weight pin clips (1) from weight pins (2).

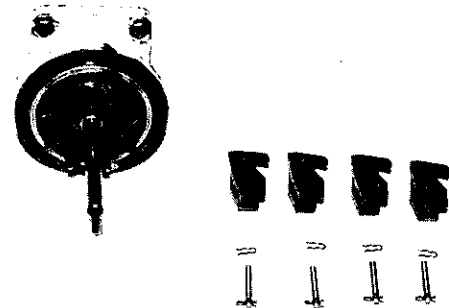
NOTE: Weight pins are knurled at one end only and clips should be removed from end opposite the knurling.



1353

17

Remove pins and weights from spider and shaft assembly.

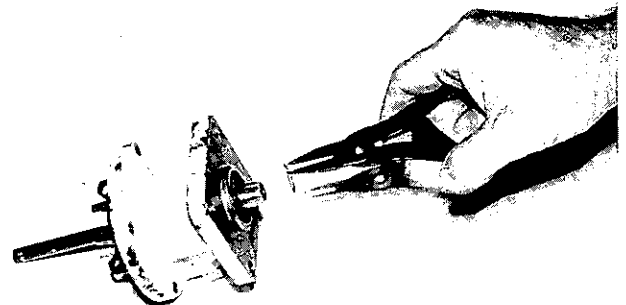


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18

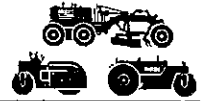
Remove drive shaft snapping.

Use Waldes-Truarc pliers #2 or equal.



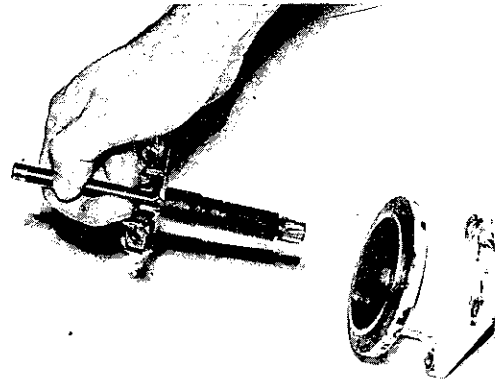
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19

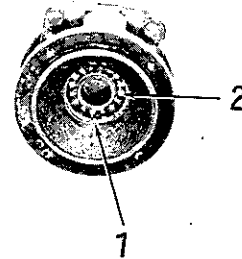
Remove spider and shaft assembly from base and bearing.



20

Remove base bearing snap ring (1).  
Press bearing (2) from base.

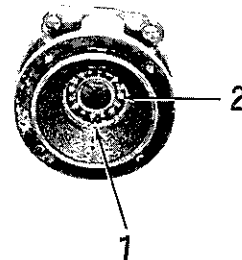
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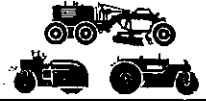
21

Press base bearing (2) into base.  
Install snapping (1).

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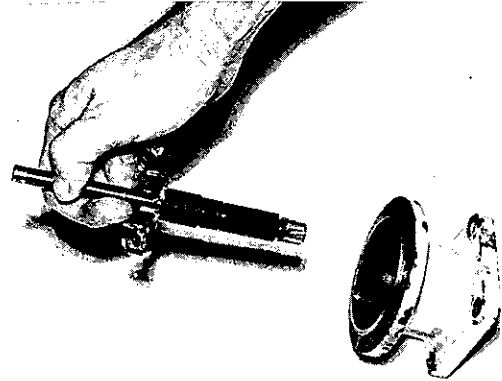


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22

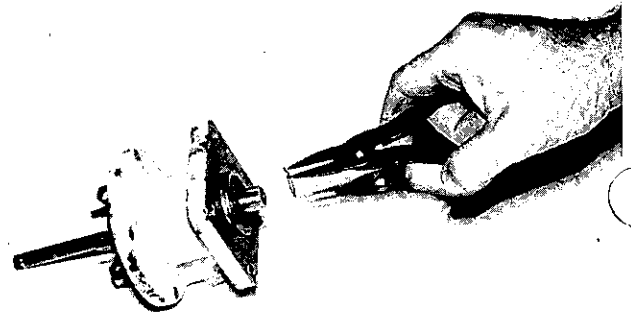
Install spider and shaft assembly bearing and base.



23

Install drive shaft snap ring.

Use Waldes-Truarc pliers #2 or equal manufactured by Waldes Kohinoor, Inc., Long Island City, New York.

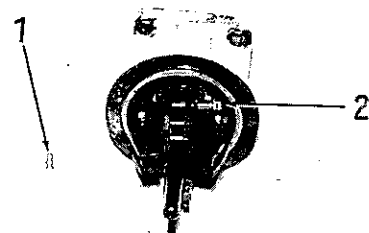


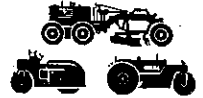
24

Install weights, pins, and pin clips on spider and shaft assembly.

NOTE: Install pins from right to left with knurled end at right (2).

Installed in this manner, centrifugal force can not throw pins from spider and free weights.





25

Install thrust bearing on thrust sleeve.



26

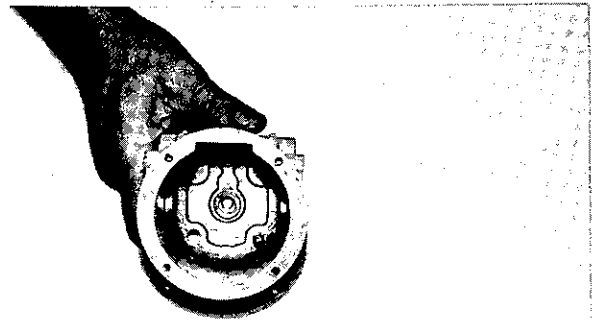
Install thrust sleeve and bearing on spider and shaft assembly.



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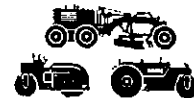
27

If needed, install new body bushing in top of body.



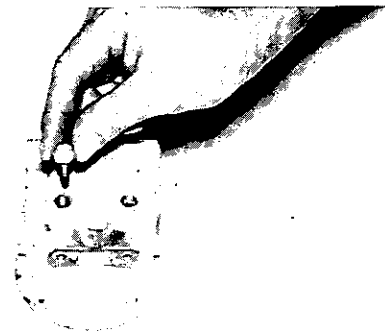
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1350



28

Install bumper screw in body.

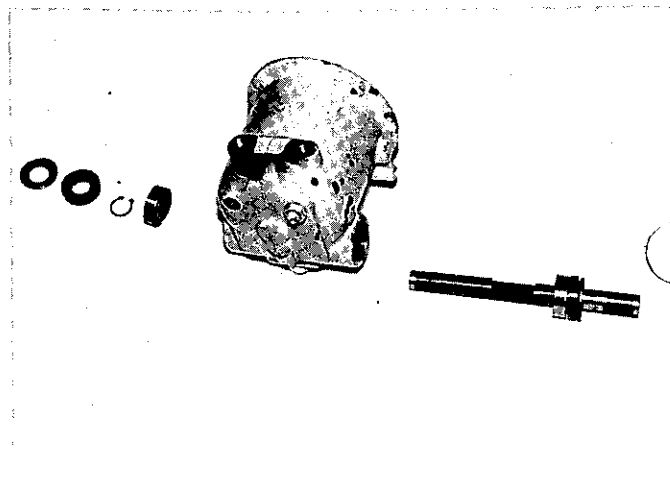


29

Install bearing, snapping, and seal on one end of rocker shaft.

Install shaft in body and at other end, install bearing, snapping, and seal.

1349

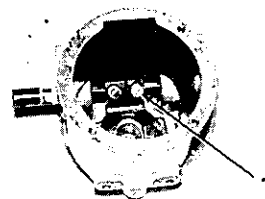


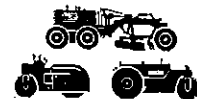
30

Install rocker yoke in body..

Attach to rocker shaft with two capscrews.

1348

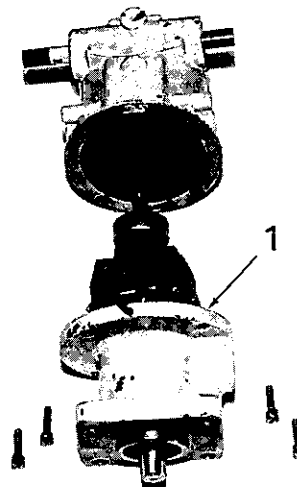




31

Install gasket (1) on base.

Attach body to base with four screws and lockwashers.

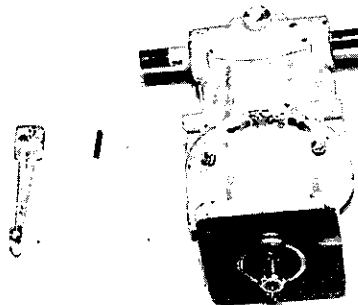


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32

Install spring lever on rocker shaft.

Secure in place with roll pin.

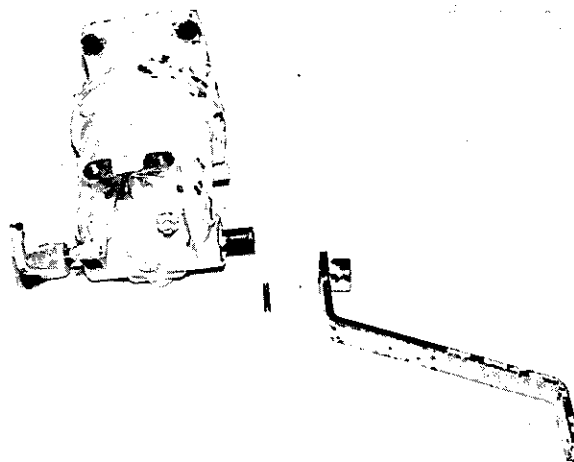


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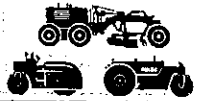
33

Install throttle lever on rocker shaft.

Secure in place with roll pin.

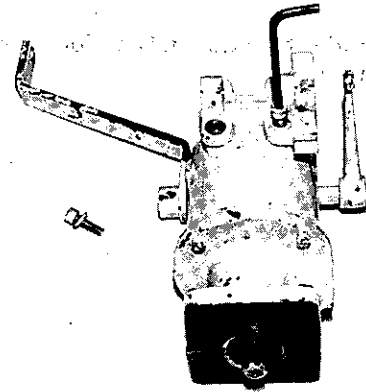


1342



34

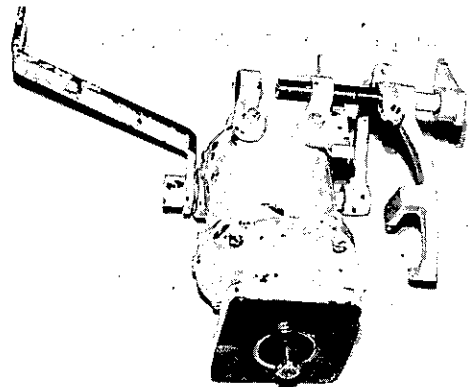
Install speed change bracket.



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35

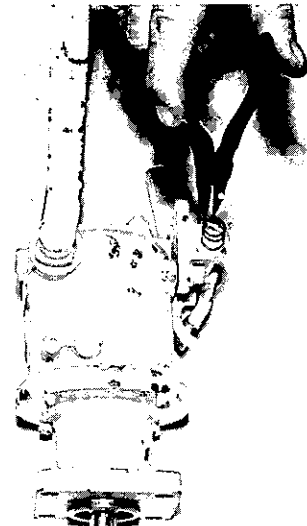
Install speed change spring lever and speed change shaft.



1344

36

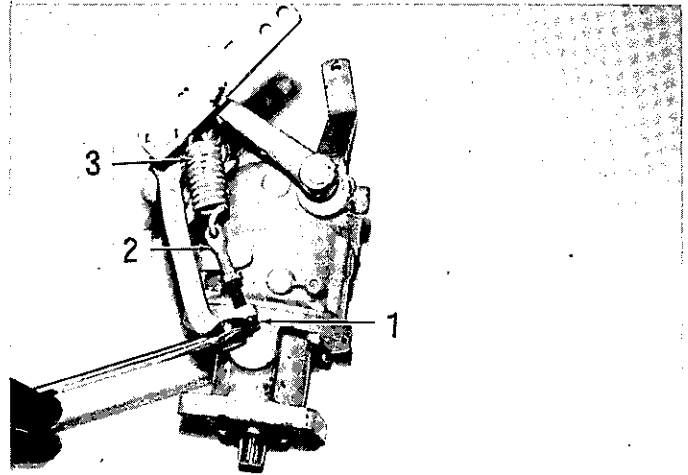
Install speed change shaft washer and snapping.





37

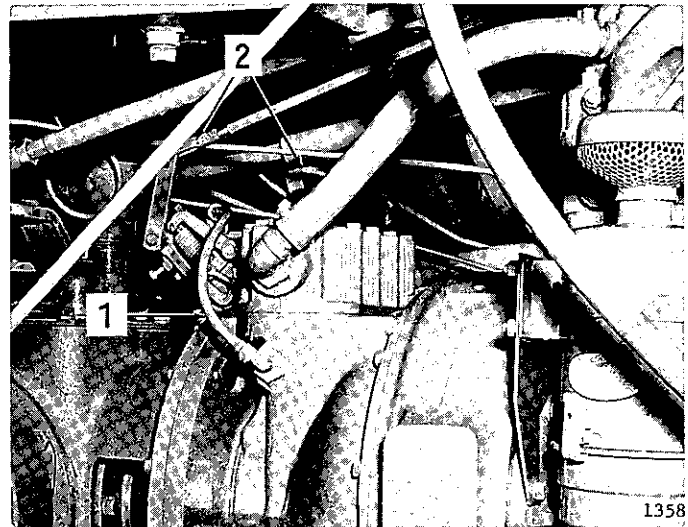
Install governor spring and screw eye and lock nut.



38

Install governor on output shaft.

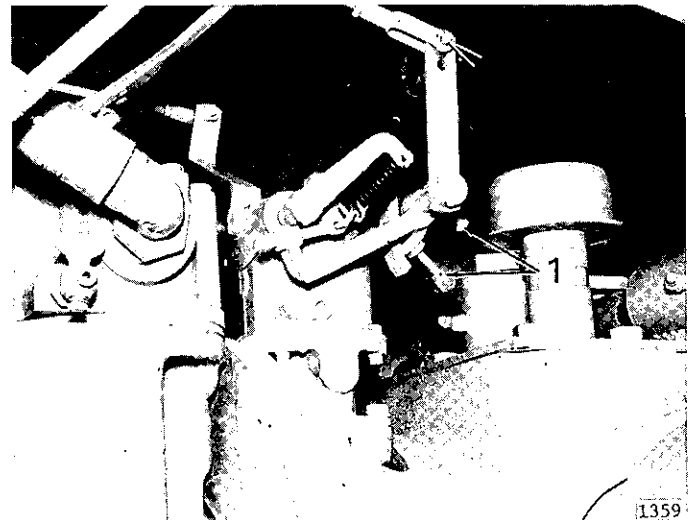
Hook up lubricating line (1) and control rods (2).



39

If stop screws (1) are in governor, remove and discard.

For correct adjustment, follow procedure outlined in operator's manual.



Handwritten mark or scribble in the top right corner.

C

C

Vertical line and scribble at the bottom right corner.