

Tiller Adapter Kit Model 18607 With Parts List

This kit Model 18607 is designed to adapt a Model 18618, 33 inch Tiller Attachment to a Model XL tractor. Follow the steps below when converting.

A. The gear direction in your present tiller gear case must be reversed. The tiller must be partially disassembled in order to rework the gear case. Follow these instructions.

1. Unfasten and remove support brackets "A" Fig. 1 from the tiller hood and save.

2. Remove the six bolts and hardware that secure tiller hood "B", and remove the hood.

3. Unfasten and save support "C".

4. Remove present hitch arms from the tiller and let the gear case oil drain from the tapped screw holes.

5. Position and secure new hitch arm "D" to the housing side of the gear case.

6. Tip the tiller on its side with the gear case cover up. Position a wood support under the hitch arm "D" till the unit is in a stable position.

7. Remove the nut on the tine shaft inside the hub and remove the tine assembly. A wheel puller will probably be needed in removing the tine assembly.

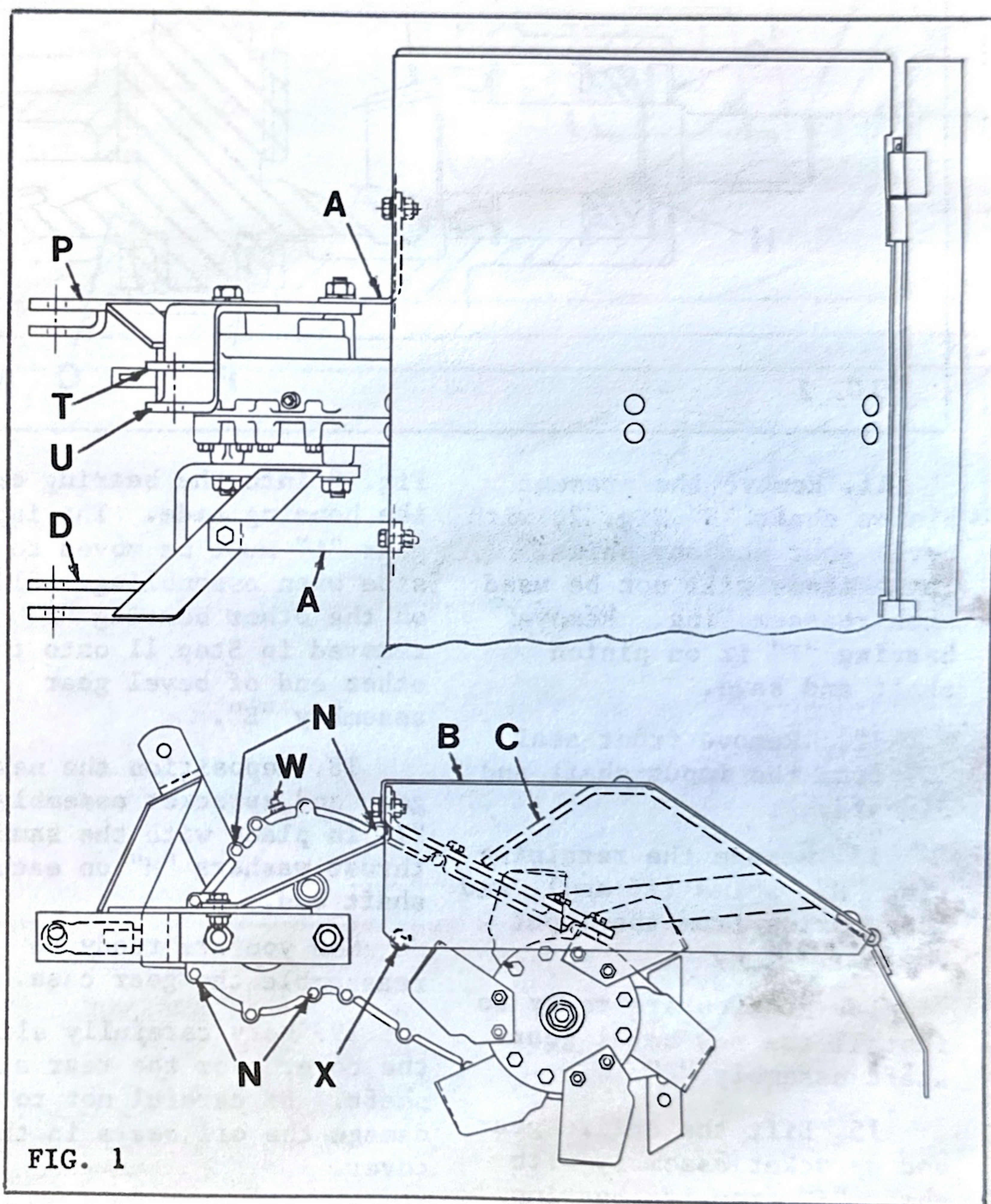


FIG. 1

8. Slide off the seal washer from the axle shaft and save.

Now you are ready to rework the gear case.

9. Drive the two locating dowel pins out of the cover half of the gear case.

10. Remove the hardware

securing the cover to the gear case housing.

CAUTION



THE COVER MUST NOW BE REMOVED. BE CAREFUL NOT TO DAMAGE THE OIL SEALS IN THE GEAR CASE AXLE HOUSING. TIP THE COVER AWAY FROM THE KEYWAY IN THE REAR SHAFT WHEN REMOVING.

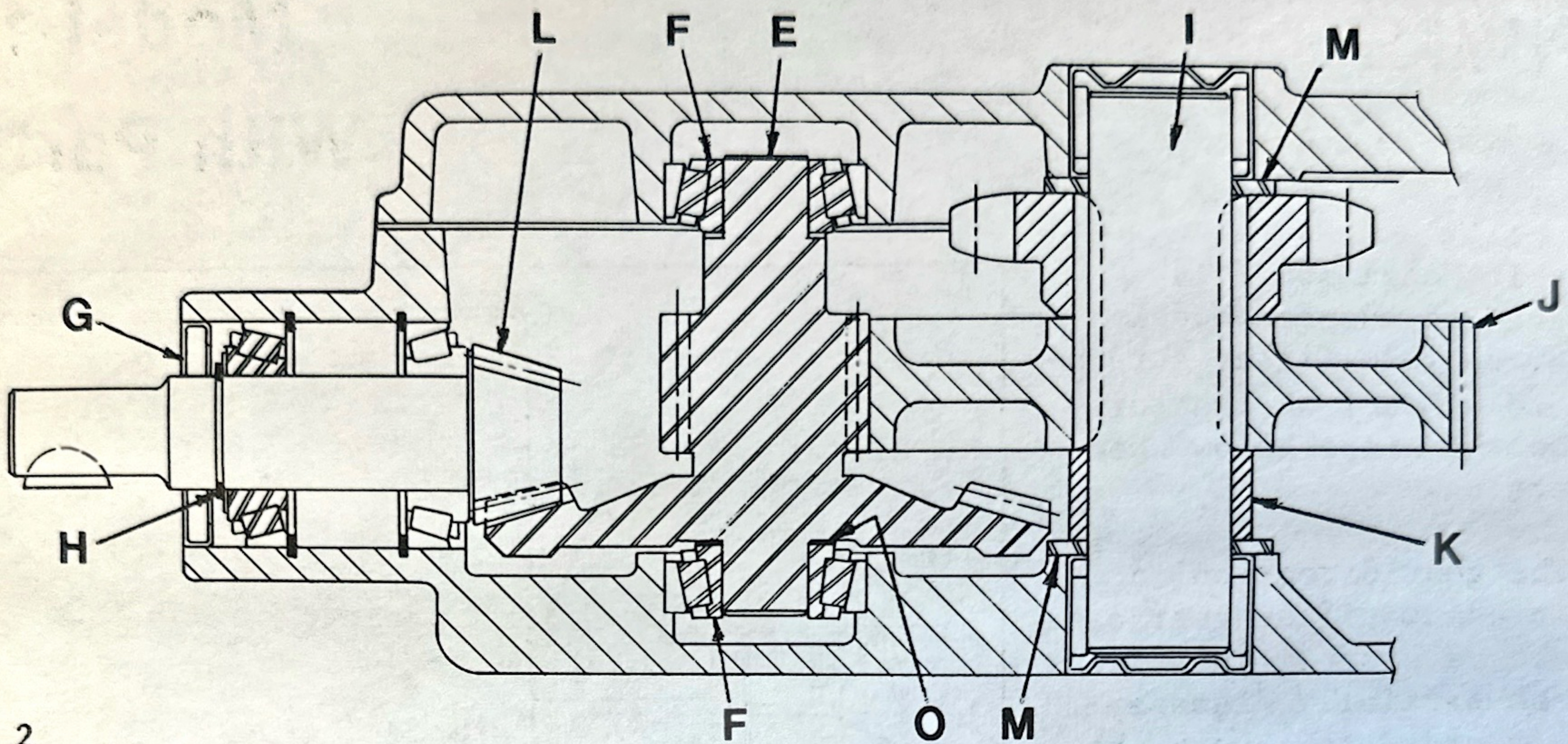


FIG. 2

11. Remove the present pinion shaft "E" Fig. 2, with bevel gear and any shims. These items will not be used when reassembling. Remove bearing "F" if on pinion shaft and save.

12. Remove front seal "G" from the input shaft and discard.

13. Remove the retaining ring "H", shims (if any), and the bearing from the input shaft.

14. Now you are ready to install the new bevel gear shaft assembly "E".

15. Lift the entire gear and sprocket assembly with shaft "I" from its bearing. Remove gear "J" and keys and replace with the new 53T gear in its place with two new keys and spacer "K" as shown in Fig. 2. Set the new gear and sprocket assembly "I" to the side to be assembled later.

16. Slip one bearing "F" removed in Step 11 onto the new bevel and shaft gear assembly "E" on gear side.

17. Position the new gear assembly "E" as shown in

Fig. 2 into the bearing on the housing side. The input gear "L" must be moved to the side when assembling. Slide on the other bearing "F" removed in Step 11 onto the other end of bevel gear assembly "E".

18. Reposition the new gear and sprocket assembly "I" in place with the same thrust washers "M" on each shaft end.

Now you are ready to reassemble the gear case.

19. Very carefully slide the cover over the rear axle shaft. Be careful not to damage the oil seals in the cover.

20. If there is a gap between the housing and the cover when reassembling lift up the housing. The housing may have slid down the other axle shaft.

21. With the cover in place, fasten the cover to the housing at four holes "N" Fig. 1.

22. Slide the bearing removed in Step 13 earlier onto the input shaft. Hold the bearing in place and rotate the input shaft to

check for backlash between gears.

23. If there is any great amount of backlash, shims supplied must be added to bevel gear shaft assembly point "O". Shim as required until the backlash between gears is removed.

24. With the bearing in place on the input shaft slide any shims removed earlier and reset the retaining ring with the sharp edge of the ring to the outside.

25. At this time the input shaft must turn without binding.

26. Position and assemble the new oil seal supplied till it is flush with the housing hub.

27. Securely fasten the gear case cover to the housing.

B. Now you are ready to reassemble the tiller.

28. Slide the seal washer removed in Step 8 onto the axle shaft.

29. Position the woodruff key into the shaft and slide

the tine assembly on and fasten.

30. Reinstall the hood and all its brackets.

31. Fasten the new hitch arm "P" onto the gear case.

C. Now you are ready to fasten the tiller to the tractor.

32. Securely fasten the two hitch arms "Q", Fig. 3 and 4, to the outside of the frame. The arm with the large offset should be attached to the left side frame. Secure with six 1/2-13 x 1-1/4 cap screws, lock washers and hex nuts. Nuts and washers must be to the inside of the tractor.

33. On the gear drive tractors remove the rear drawbar hitch from the tractor. Position the tiller hitch over the rear hitch arms and secure with two 5/8 x 2-1/4 clevis pins, flat washers and hitch pins "R".

34. Assemble the lift cable. Turn the 3/8-16 hex nut and yoke "S" onto the lift cable. See Fig. 3 and 4.

35. Position the yoke end of the lift cable "S" over the lift arm of the tiller. Hydrostatic tractors use hitch arm "T", Fig. 1, on the tiller, and gear drive tractors use hitch arm "U". Secure with a 1/2 x 1-1/4 clevis pin and hitch pin.

36. On hydrostatic tractors, route the lift cable along the inside of the frame and over the bent wire form. See Fig. 3. Secure between the lift arms with a 1/2 x 2-3/4 clevis pin and hitch pin.

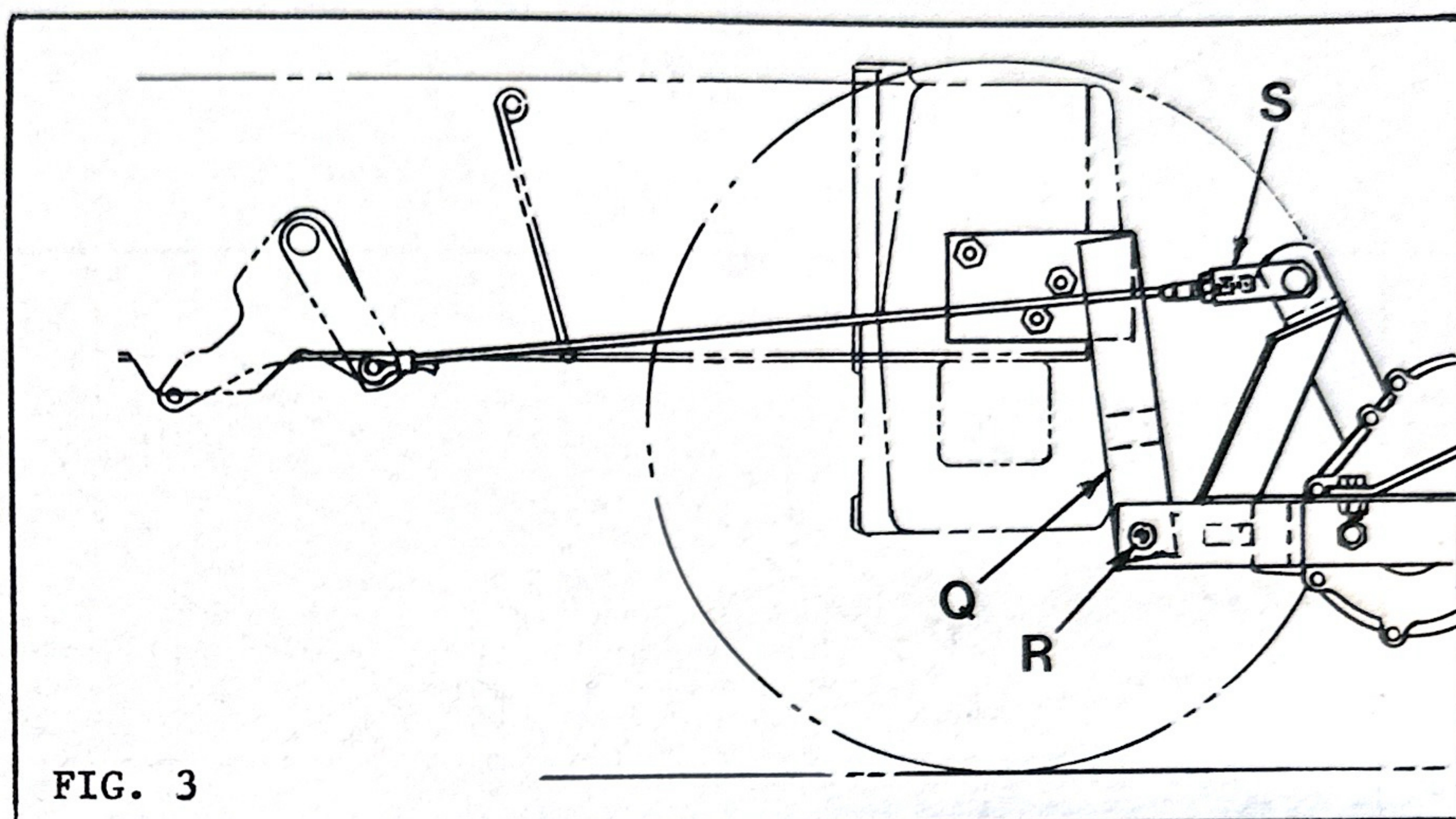


FIG. 3

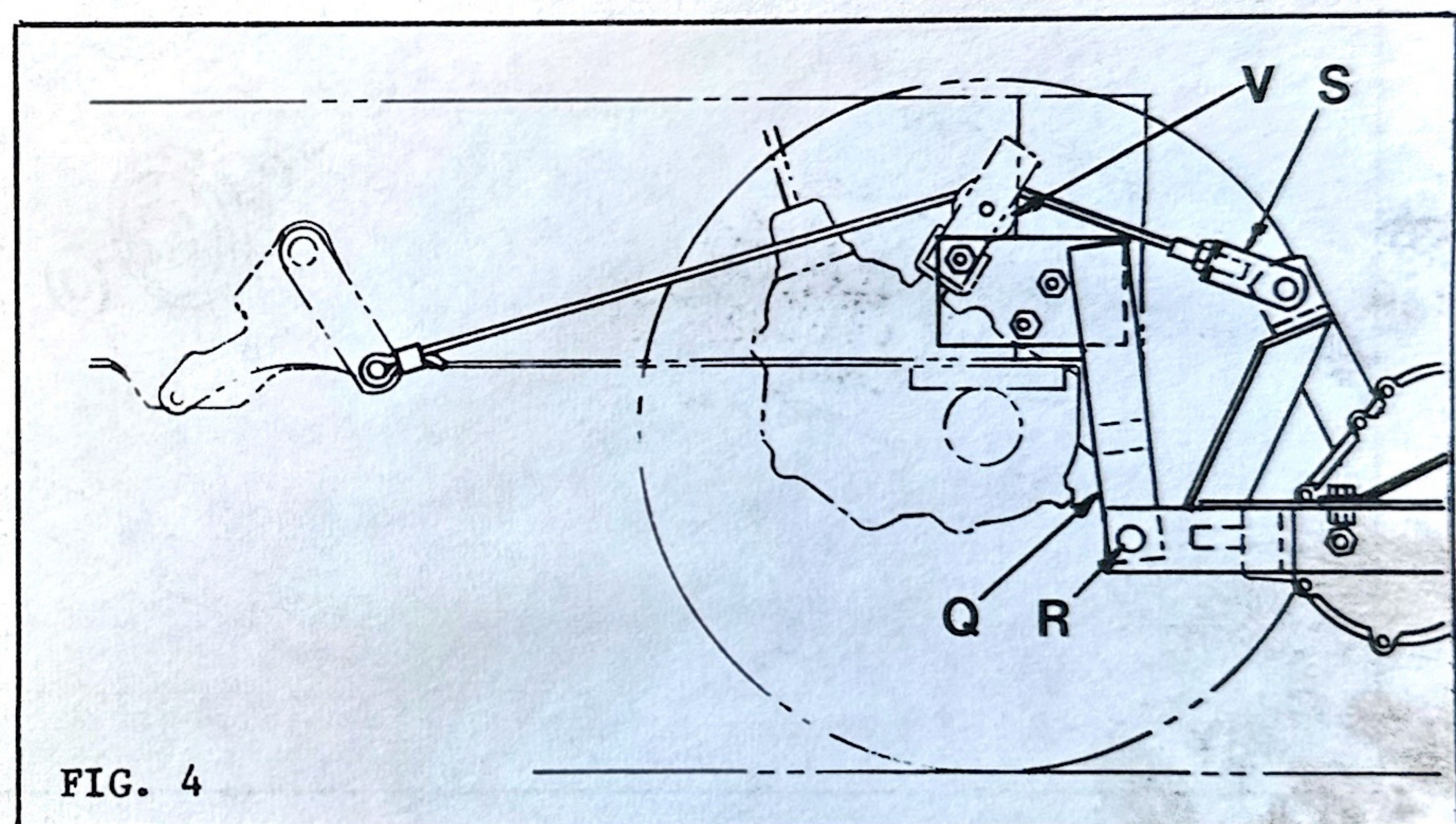


FIG. 4

CAUTION



FAILURE TO KEEP THE CABLE ROUTED OVER THE WIRE FORM MAY CAUSE THE CABLE TO TANGLE AND DAMAGE SOME HYDROSTATIC PARTS.

37. On gear drive tractors route the cable over roller "O", Fig. 4, and secure between the lift arms with a 1/2 x 2-3/4 clevis pin and hitch pin.

38. Adjust yoke "S" so that when transporting the tiller, the tines are 5-1/2" (139.7 mm) from the ground.

39. Grease the splines on the attachment drive shaft and the tiller input

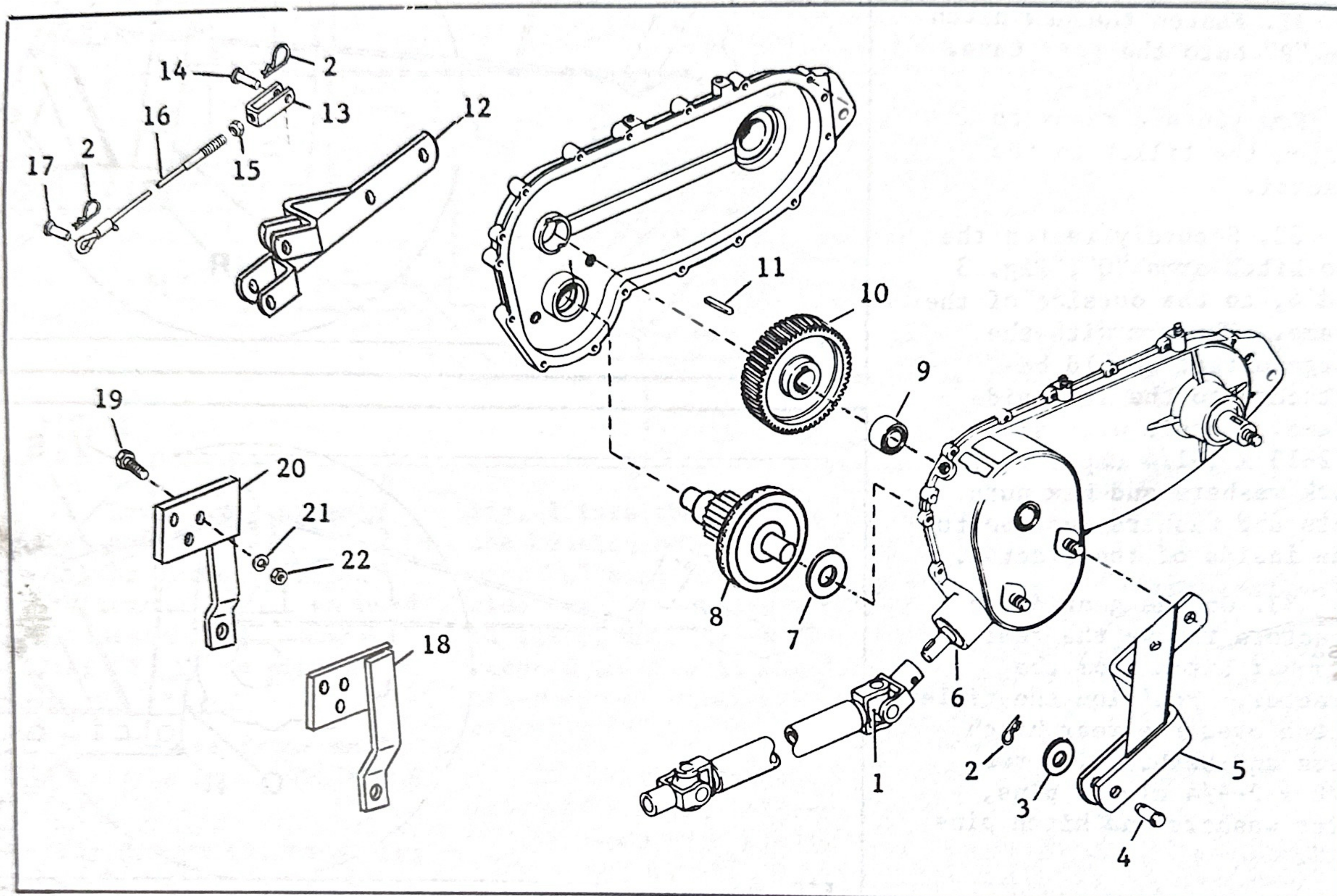
shaft. Place the drive shaft under the tractor. Slide the rear universal (without the collar) onto the tiller input shaft as far as possible. Depress the lock collar and slide forward onto the PTO attachment drive shaft, under the engine, till the locking collar locks in place.

40. Fill the gear case with EP90 gear lubricant in the fill plug "W" till it reaches the oil level plug "X". See fig. 1.

D. Check your present owner manual for all further maintenance and operation instructions.

TILLER ADAPTER KIT

MODEL 18607



REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1734928	Drive Shaft Assy.....	1
2	1723478	Hitch Pin.....	5
3	1107386	Flat Washer - 5/8 Dia..	2
4	1719367	Clevis Pin.....	2
5	1734916	L.H. Support Assy.....	1
6	1185687	Oil Seal.....	1
7	1728832	Shim 3/4 x .005.....	6
8	1734913	Gear Cluster Assy.....	1
9	1734911	Spacer.....	1
10	1734912	Gear, 53T.....	1
11	1734910	Key.....	2
12	1734920	R.H. Support Assy.....	1

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
13	1734192	Yoke - Cable.....	1
14	1730851	Pin - Clevis.....	1
15	1186231	Hex Nut - 3/8-16.....	1
16	1734193	Lift Cable.....	1
17	1706621	Clevis Pin.....	1
18	1733854	L.H. Hitch Arm.....	1
19	1100055	Hex. Screw, 1/2-13 UNC x 1-1/4...	6
20	1733855	R.H. Hitch Arm.....	1
21	1100245	Lockwasher, 1/2.....	6
22	1186233	Hex Nut - 1/2-13.....	6