# 385/485/585/685/785
# 885+XL/248/258/278
# HYD 268/HYD 85

## Operator's Manual

**1135080R5**

Reprinted

CASE

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*THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.*

M171B

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.



# WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

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# SAFETY

Latch brake pedals together at all times to stop the tractor or when travelling on the highway. Pedals may only be unlatched to assist in making sharp turns and then only at low tractor speeds.

Ensure that the diff lock is disengaged when travelling on the highway or making turns.

Ensure that all bystanders are well clear before moving off. A child, worker or animal close to the tractor may be hidden from view.

Engage the clutch slowly. Drive smoothly. Avoid sudden acceleration and braking.

Do not allow passengers to ride on tractors or attached equipment.

Be constantly alert for hazards which could result in the tractor tipping, e.g. large rocks, logs, tree stumps, holes, ditches, embankments or excavations.

Always be aware of changing ground conditions.

Reduce speed when travelling over rough ground, turning or applying the brakes and operating close to ditches, ponds or embankments etc.

Use extreme care when operating on hillsides. Whenever possible drive forward down steep slopes, and reverse up them. Drive slowly when traversing hillsides, and turn uphill whenever practical.

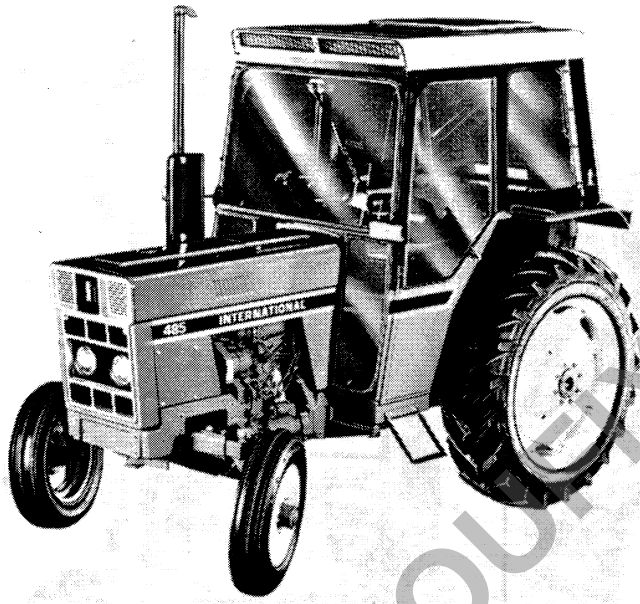
To make full use of engine braking when moving down hill the tractor must always be in gear, never in neutral. On Hydrostatic drive tractors the speed ratio lever must be in drive at the required speed. Do not depress the clutch or Foot-n-inch pedals. Select low gear before travelling down hill particularly if pulling a heavy or unbraked trailer.



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# INTRODUCTION




485 TRACTOR




HYDROSTATIC TRACTOR



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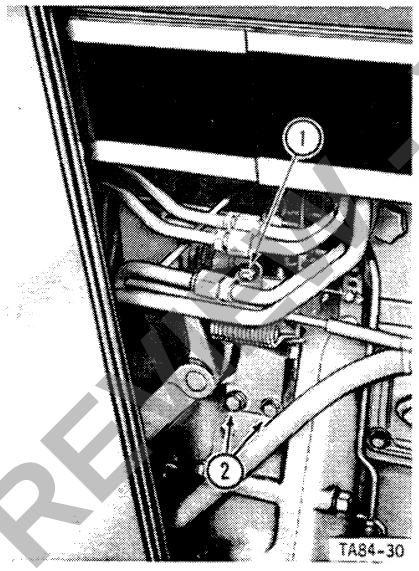
# MAINTENANCE

## BRAKES NON XL TRACTORS.

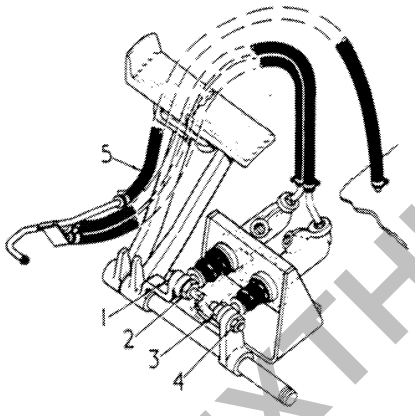
Disengage pedal latch, loosen left pedal adjuster lock nut and turn eccentric pivot bolt to bring left pedal 210 mm (8-1/4 in) from the footplate. Tighten lock nut.

Loosen right pedal adjuster lock nut, turn eccentric pivot bolt until right pedal is same height as left pedal then check brake latch will easily engage, if necessary adjusting further on right pedal pivot bolt.

Tighten lock nut when adjustment is correct.




Left Pedal
1. Left pedal adjuster lock nut
2. Switch bracket bolts




1. Left pedal adjuster lock nut
2. Left pedal eccentric pivot bolt
3. Right pedal eccentric pivot bolt
4. Right pedal adjuster lock nut
5. Dump hose

## BLEEDING THE BRAKES

### GENERAL

This is not a routine operation and should only be necessary after some part of the system has been disturbed allowing air to enter the system.

NOTE: Bleedscrews should be tightened to 0.46 to 0.57 kgm (40 to 50 lb in).

Through the hood sheet access panel clamp the dump hose to prevent oil returning to transmission.



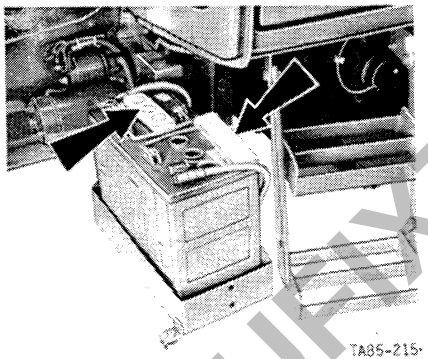
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# INITIAL SERVICING

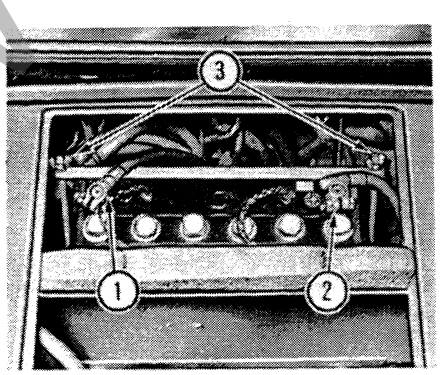
## BATTERY

Check electrolyte level. Should be 9 mm (3/8 in) above plates. Coat terminals with petroleum jelly after first 20 hours of operation.




(XL Tractors)

DO NOT RUN ENGINE WITH BATTERY DISCONNECTED, TO DO SO WILL DAMAGE THE ALTERNATOR.




1. Earth cable 2. Positive cable
3. Wing nuts

(Non XL Tractors)

## CARE AND ATTENTIONOF MAINTENANCE FREE BATTERIES.

1. Under normal use maintenance free batteries will not require topping up.

2. In the event of an alternator failure always check electrolyte levels. The height above the plates should be 15 mm. If low adjust to the correct height by the addition of distilled or de-ionised water.

3. In the event of an accidental discharge it is strongly recommended that the battery is recharged fully. The recharge should be carried out by a mains charger at between 8 and 9 amps.

4. Keep cable connections and fixing bolts sensibly tight and free from corrosion.

5. Always replace terminal clamps if the inside surface is badly pitted or eroded. failure to do this can easily result in high temperatures during starting with melted terminals as a result.

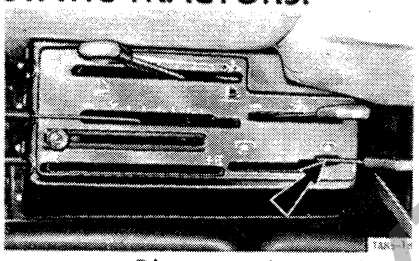


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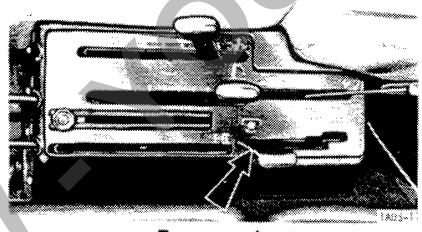
# INDEPENDENT POWER TAKE-OFF

## GEAR DRIVE AND FOOT CONTROLLED HYDRO-STATIC TRACTORS.



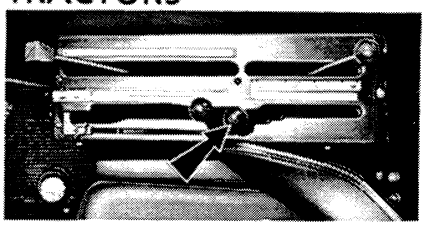
Disengaged

To engage P.T.O. move lever to off-set momentarily then fully forward. Adjust engine speed to provide correct P.T.O. speed.



Engaged

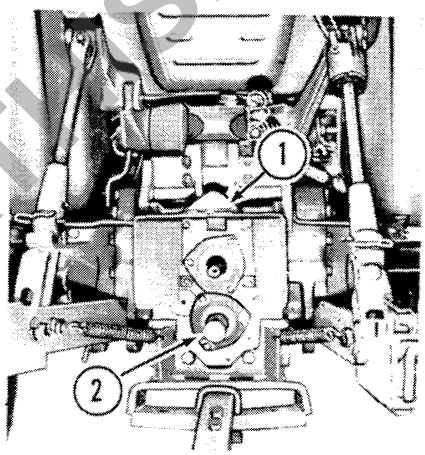
## HAND CONTROLLED HYDROSTATIC TRACTORS



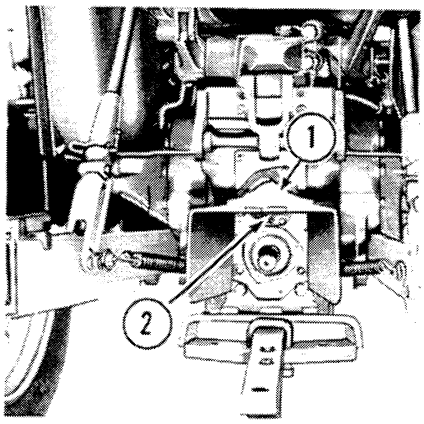
NOTE - On hand controlled hydrostatic tractors, P.T.O. lever moves rearward to engage.

## SAFETY SHIELDS

**Ensure shaft not in use is correctly shielded.**




Using upper shaft




1. Safety shield
2. Safety tube

Using lower shaft

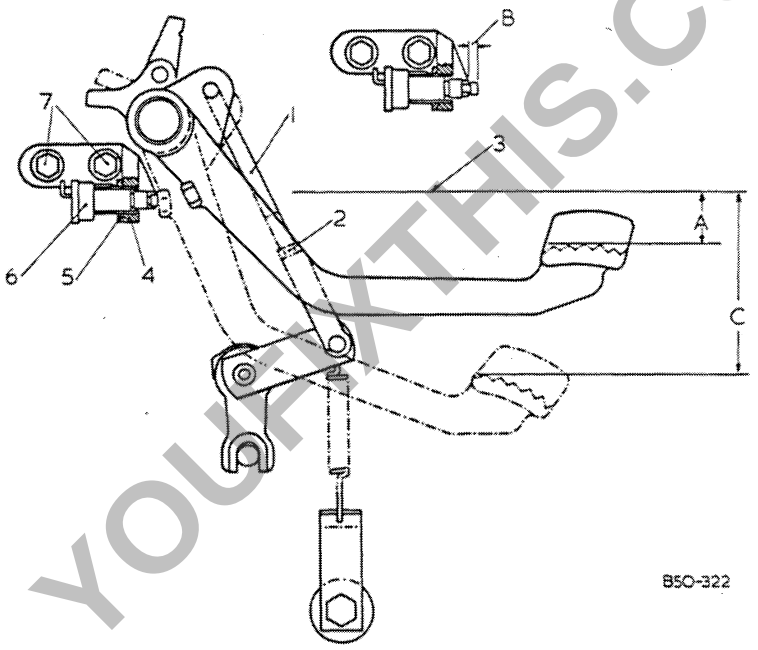


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# MAINTENANCE

## ENGINE CLUTCH
## (NON XL AND HYDROSTATIC TRACTORS)




1. Clevis rod
2. Locknut
3. Clutch housing face
4. Bracket
5. Locknut
6. Safety start switch
7. Bracket securing bolts

A = 32.0 mm (1-1/4 in)
B = 7.0 mm (9/32 in) Max.
C = 115.0 mm (4-17/32 in)

## CLUTCH PEDAL HEIGHT - BASIC SETTING

As clutch wears, pedal will rise.

Adjust when clutch operation becomes uncomfortable.

Adjust clevis rod so that dimension 'A' between clutch housing top face and pedal pad is 32.0 mm (1-1/4 in) with no free travel.

Total pedal travel 'C' should now be 115.0 mm (4-17/32 in).

If this dimension is not correct, ensure plunger travel 'B' does not exceed 7.0 mm (9/32 in.), slacken bracket securing bolts and move bracket.
Tighten bracket bolts.

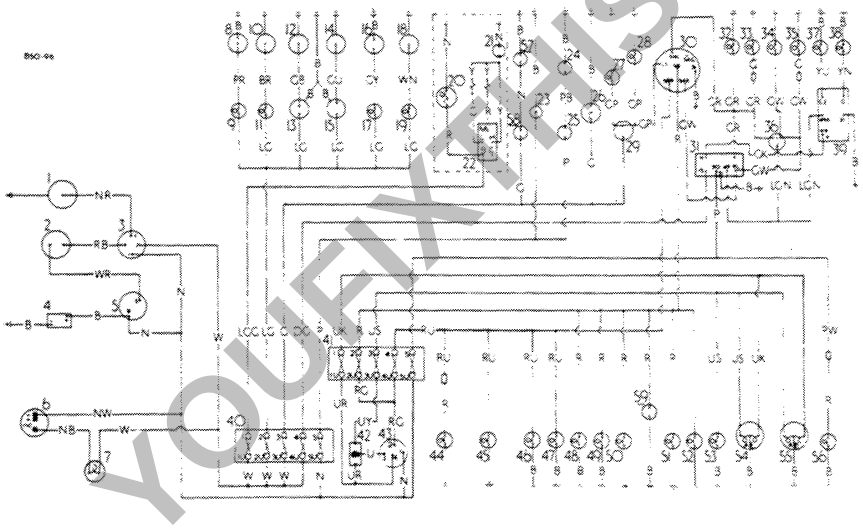


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# ELECTRICAL SYSTEM

## WIRING DIAGRAM-OTHER THAN XL TRACTORS



## CABLE COLOUR CODE FOR WIRING DIAGRAM

| | |
|---|---|
| B - Black | W - White |
| U - Blue | Y - Yellow |
| N - Brown | O - Orange |
| G - Green | D - Dark |
| K - Pink | L - Light |
| P - Purple | M - Medium |
| R - Red | <-B - Earth via cable |
| S - Slate | <- - Earth via body |



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# ELECTRICAL SYSTEM

## LEGEND TO WIRING DIAGRAM-OTHER THAN XL TRACTORS

1. Thermostart
2. Safety start switch
3. Keyswitch
4. Battery
5. Starting motor
6. Alternator
7. Alternator warning light
8. Parking brake switch
9. Parking brake warning light
10. Transmission oil temperature switch*
11. Transmission oil temperature warning light
12. Fuel gauge transmitter
13. Fuel gauge
14. Engine temperature transmitter
15. Engine temperature gauge
16. Air cleaner transmitter
17. Air cleaner indicator light
18. Engine oil pressure switch
19. Engine oil pressure warning light
20. Interior light
21. Heater motor
22. Heater switch
23. Cigar lighter
24. Horn
25. Horn button
26. Windscreen wiper
27. Left brake light
28. Right brake light
29. Brake switch
30. 7 pin socket
31. Hazard warning switch
32. Left rear direction indicator
33. Left front direction indicator
34. Right rear direction indicator
35. Right front direction indicator
36. Direction indicator switch
37. Trailer indicator warning light
38. Tractor indicator warning light
39. Indicator unit
40. Left fuse box
41. Right fuse box
42. Headlight dipswitch
43. Light switch
44. Right side light
45. Right rear light
46. Speedometer light
47. Tachometer light
48. Right panel light
49. Left panel light
50. Number plate light
51. Left side light
52. Left rear light
53. Headlight warning light
54. Right headlight
    (a) Main beam
    (b) Dip beam
55. Left headlight
    (a) Main beam
    (b) Dip beam
56. Plough light
57. Ether solenoid
58. Ether switch
59. 2 pin socket



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## SAFETY

Do not operate a machine unless all safety shielding is fitted and in good condition.

Ensure that operators compartments, pedals, steps and grab handles are always clean and free from grease, oil and ice.

Use steps and grab handles when entering or leaving the operators compartment. Do not dismount forward. This could result in a fall. Do not dismount from a moving tractor. Clean footwear soles before using steps.

Do not run engines in enclosed buildings unless there is adequate ventilation. Exhaust fumes are dangerous.

Keep hair short or under a hat.

## DRIVING

Know how to use all controls and how to stop the tractor and/or implement quickly.

Inflate tyres to the correct pressure. Ensure they have adequate tread and there are no dangerous cuts or other damage.

Ensure that windows are clean at all times.

Always sit in the driving seat when starting the engine. Never try to do it from the ground.

Move all gear controls to neutral before starting the engine and ensure the power take-off lever is in the disengaged position.

Use seat belts if fitted provided the tractor is fitted with a safety cab or protective frame. Do not fit seat belts to tractors that are not equipped with safety cabs or frames.

Check brakes and clutch pedals for correct operation.



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