

1958

EC58-705 Sweep Machines - Hitching and Adjustments

D. E. Lane

Charles Fenster

Follow this and additional works at: <http://digitalcommons.unl.edu/extensionhist>

Lane, D. E. and Fenster, Charles, "EC58-705 Sweep Machines - Hitching and Adjustments" (1958). *Historical Materials from University of Nebraska-Lincoln Extension*. 3405.

<http://digitalcommons.unl.edu/extensionhist/3405>

This Article is brought to you for free and open access by the Extension at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Historical Materials from University of Nebraska-Lincoln Extension by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

85
E7
705
C.1

E.C.58-705

SWEEP MACHINES-

Hitching and Adjustments

by **D.E. Lane**

Asst. Ext. Engineer

Charles Fenster

Asst. Ext. Agronomist

RECEIVED

MAR 11 1970

COLLEGE OF AGRICULTURE
LIBRARY

**EXTENSION SERVICE
UNIVERSITY OF NEBRASKA COLLEGE OF AGRICULTURE
AND U.S. DEPARTMENT OF AGRICULTURE
COOPERATING
W. V. LAMBERT, DIRECTOR**

Sweep Machines..

HITCHING AND ADJUSTMENT

Machines should be put on a level surface in preparation for making adjustments. Make an examination of the machine for loose nuts, broken or worn parts - replace if necessary.

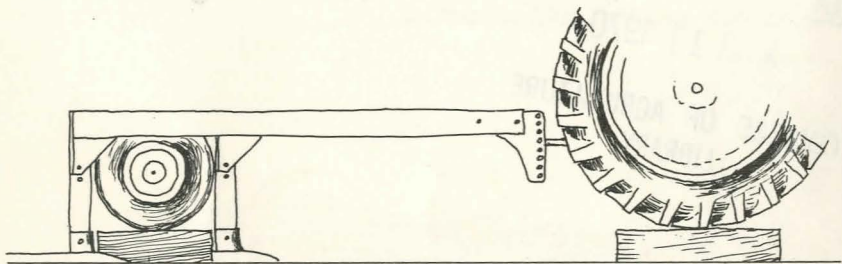
The wheels should be put on blocks which have a thickness equal to the depth the machine will be working.

Machine should be put in operating position in relation to the tractor and line of travel.

Drawbar of sweep machine should be raised above tractor drawbar equal to depth of intended operation.

Fig. 1 shows line of draft between tractor and implement with wheels of machine and tractor on blocks (block thickness equal to depth of tillage).

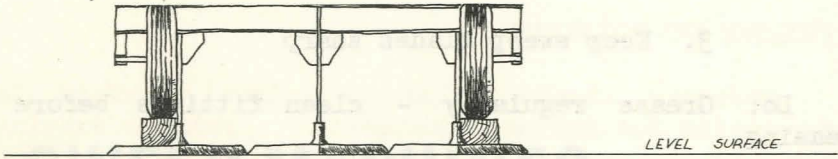
TRACTOR ON DRAWBAR (UPON BLOCKS)



Sweeps should be level and in the same plane with one another. On most machines the frame will be parallel to the ground.

Fig. 2 shows rear view of sweep machine - all sweeps and frame level.

hitching and adjustments



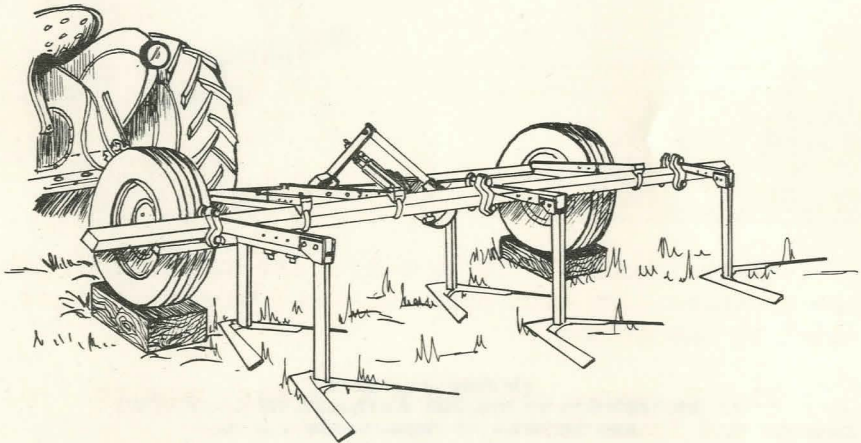
REMEMBER

When changing depth of tillage the machine will probably have to be re-leveled with line of travel.

Weights - Under extreme conditions or operating at shallow depths - weight on sweep machines may be necessary to obtain sufficient penetration and smooth operation.

Never use more weight than is necessary to keep wheels riding firmly on the ground. Too much weight causes excessive draft and unnecessary wear on the blades and machines.

Speed - Sweep machines should be operated at least 4 miles per hour. Fig. 3. Sweep machine in position for making adjustments.



Maintenance: Check:

1. Proper tire inflation
2. Keep nuts and bolts tight
3. Keep sweep blades sharp

Do: Grease regularly - clean fittings before greasing.

Storage: Inspect for worn parts; Lubricate

IMPORTANT:

Apply rust preventative to all cuttings and exposed working surfaces. Non-scouring blades increase draft. Check wheel bearings and repack, if necessary.