



DISC PLOUGH

(DIP 02/DIP 03/DIP 04/DIP 05/DIP 06/DIPB03/DIPB04)

USER GUIDE



 **ALPLER**

ATTENTION



**DO NOT
OPERATE THE MACHINES
BEFORE READING THIS MANUEL!**

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WARNING SIGNS & MEANINGS



CAUTION

This sign warns that the operations described could cause damage to machine, if they are not carried out correctly.



READ MANUAL FIRST

Read the “Operating and Maintenance Manual” carefully before first start and keep the manual nearest.



WARNING

This sign warns that the operations described could cause serious lesions or long term health risks, if they are not carried out correctly.



KEEP CHILDREN AWAY

This symbol expresses to keep the children away against any risk.



Be careful against danger of entrapment.



DO NOT STAND NEAR THE MACHINE WHILE IT IS WORKING

This symbol expresses not to stand near the machine while it is working to avoid any injury.



Use the balance leg against danger of tipping over while detaching the plough from tractor.



Do not carry people or loads on the plough.

1. INTRODUCTION

Dear Farmer,

Firstly, we congratulate you for your correct preference on the way to efficiency by selecting the brand "ALPLER". As your agricultural partner, we offer you our product in which we combined high quality, low operational cost and effective after-sale service concept.

All of "ALPLER" products are designed for the most efficient and the safest use and tested accordingly in cooperation with the relevant university departments, agricultural establishments and farmers. We request you to read the user manual before the first operation in order to use our product in a more effective manner as well as for product and your own safety. The failures that may result from using the product beyond the instructions for use specified in this manual are not covered by "ALPLER" warranty. "ALPLER" products are manufactured for agricultural utilization purposes only, and our company does not assume any liability against the conditions arising from misuse. Maintenance, repair and operation of our products must be carried out by those who were informed on the relevant and possible dangers.

Enjoy your new product and we wish you productive and fruitful years.

We hope to serve you for a long time...

CAUTION

If the product owner changes in the future, please submit this manual to the new owner of the product and inform on safety measures.



2. SAFETY RULES

- Be careful against danger of entrapment while attaching/detaching the plough to/from the tractor; do not stand between the plough and tractor.
- Do not move the tractor without being sure that tractor is completely attached to the tractor while attaching, and it is completely detached from tractor while detaching.
- Do not carry people or loads on the plough.
- While transporting the plough on the road, turn tractor hydraulic to locking position.
- When the plough is elevated, do not stand under it.
- Be careful against the pointed and sharp edges on the plough.
- Front hydraulic selector must be in position control while attaching/detaching the plough, in draw control during operation and in locking position during transportation.
- Be careful against danger of tipping over of the tractor while working on sloping lands.
- While turning, maximum area to which the plough can reach should be considered.
- If the plough is to be transported at long distances, it should be transported on the trailer.
- The plough should be loaded and unloaded with a hoist or crane when loaded on the trailer and unloaded from the trailer.
- Attachment/detachment of the plough should be carried out with a helper if possible, if not, apply handbrake while descending from the tractor.
- While transporting the plough on the highways, observe applicable traffic rules and be more careful.
- If any maintenance or repairs are to be made on the plough, the support leg should first be opened, the plow should be leveled and completely lowered to the ground, and the necessary safety precautions should be taken.
- The plough and tractor categories should match each other.
- Warning labels on the plough should always be clean and visible. If the warning labels have become worn, lost or illegible for any reason, they should be obtained from our nearest dealer and affixed to their places.

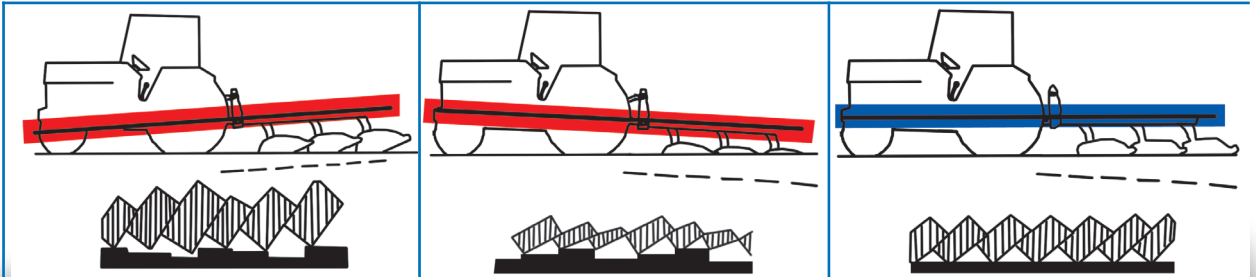
2.1. RULES TO BE OBSERVED

- While selecting plough, take the tractor power and the soil structure, where the plough will be used, into account.
- Move slowly and carefully under poor land and road conditions.
- Do not use the plough for root removal, rock removal, etc. on the land, use only for ploughing.
- Do not make any maneuver while the plough is within the soil.
- If a wheel is provided on the plough, it should be used during the ploughing.
- Do not attach any additional equipment on the plough or do not remove any standard parts.
- Never perform welding on the plough, replace the damaged part with an original one.

3. SETTINGS

3.1. POINTS TO CONSIDER DURING PLOUGHING

- During ploughing, front and rear of the chassis should be parallel to ground. This parallelism is obtained by extending or shortening the upper link arm.



Tractor upper link arm shorter than required

Tractor upper link arm longer than required

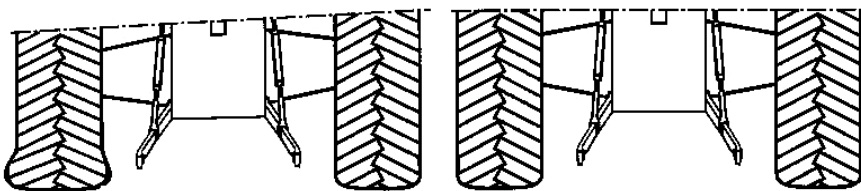
Tractor upper link arm as it should be

Be careful against the possibility that invisible rocks and roots may be present within the soil during ploughing.

- Keep the travelling speed constant.
- Working depth should be constant and adjusted from the adjustment wheel if equipped and it should be marked with the hydraulic control arm fixing valve after the desired depth is set.
- The first furrow should be opened straight and the second furrow should be parallel to the first one.
- Front selector must be in "DRAW CONTROL" position during ploughing.
- When plough is within the soil, do not make back maneuver and do not turn until the plough is pulled from the soil at furrow ends.
- For equal working depth, the distances from blades to plough roof should be equal.
- Leave safe cushioning distances at furrow ends for turning.

3.2. TRACTOR PREPARATION

- Air in the right and left wheels of the tractor must be adjusted equally.

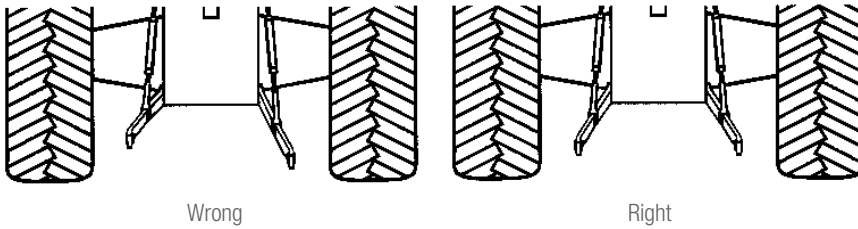


Wrong

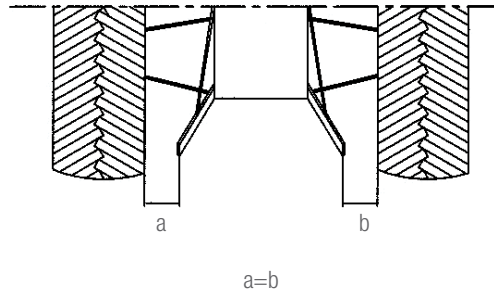
Right

3. SETTINGS

- Right and left link arms of the tractor must be adjusted to equal height from the ground.



- Right and left link arms of the tractor must be adjusted to equal distance from the wheels.



- Attach sufficient load to the front wheels of the tractor, or to the front load attachment location, if any (Refer to the tractor operating manual).
- If there is a possibility for tow hook or dovetail to block the plough, shift it to the side, or remove them if necessary (Refer to the tractor operating manual).
- To prevent skidding, you can attach load to the rear wheels of the tractor or fill water (Refer to the tractor operating manual).
- Wheel air may be 1-2 pound(s) lower than the normal to prevent skidding during ploughing .

3.3. ASSEMBLY OF THE PLOUGH TO THE TRACTOR

- Shift the hydraulic front selector to "POSITION CONTROL".
- Take the tractor closer to the plough properly.
- If one of the tractor lower link arms is adjusted and the other is not, insert the unadjusted lower link arm, adjusted lower link arm and finally the upper link arm respectively, and secure them with safety pin. If both link arms are adjusted, it is not important which one is attached first.
- While plough is working, tensioning chains or tensioning mechanisms of the link arms are adjusted neither too tight nor too loose.
- Do not move the tractor without being sure that the plough is completely fixed to the tractor and the necessary precautions are taken.

3. SETTINGS

3.4. DISASSEMBLY OF THE PLOUGH FROM THE TRACTOR

- Take the plough to a suitable location.
- Shift the hydraulic front selector to “POSITION CONTROL”, and the plough is lowered to the ground by opening the balance leg.
- Remove the upper link arm, adjusted lower link arm and unadjusted lower link arm respectively.
- Do not move the tractor without being sure that the plough is completely detached from the tractor.

3.5. ADJUSTMENTS TO BE PERFORMED BEFORE PLOUGHING

- The tractor upper link arm should be extended and shortened so that the front and rear of the plough chassis are equally spaced from the ground during ploughing.
- During ploughing, the upper link arm should be straight or inclined towards the tractor when the plough is in the soil. This adjustment can be done by changing the height options at the plough coupling head and tractor upper link arm.
- When ploughing, the plough should be equally spaced from both tension arms (or chains) so that it can swing to the left and right.

3.6. PLOUGH MAINTENANCE

- Clean the soil and plant residues on the plough after each ploughing work.
- Before every ploughing work and at the end of every 10 hours of operation, all grease nipples marked with labels on the plough should be greased sufficiently.
- Check the bolts and nuts after each ploughing work; tighten the loose ones, and replace the missing ones with original spare parts suiting to the holes.
- In the seasons when the plough will not work, the plough should be stored in a closed warehouse.
- If the plough will not be used for a long time, all glossy surface should be protected against rust by coating with protective oil or grease.
- Frequently check the plough parts contacting to soil, replace the worn parts with new original ones.
- All grease nipples on the plough should be greased after each work until the clean oil comes out of the bearings.
- While lowering the plough to the ground, do not release it suddenly; it should be lowered slowly and carefully.

4. TROUBLESHOOTING

FAULT	FAULT REASON	SOLUTION
If the front body is ploughing deeply, the rear body is ploughing from the top;	The tractor upper link arm may be adjusted shorter than necessary.	The tractor upper link arm should be extended so that when ploughing, the front and rear of the plough chassis are at equal heights from the ground.
If the front body is ploughing from the top, the rear body is ploughing deeply	The tractor upper link arm may be adjusted longer than necessary	The tractor upper link arm should be shortened so that when ploughing, the front and rear of the plough chassis are at equal heights from the ground
If the front body is stacking the soil on the previous furrow	The eccentric setting may be incorrect, eccentric may have shifted to the right of the plough too much	By loosening the eccentric connection bolts, slide the eccentric far enough to the left and tighten the connection bolts
	Upper link arm may be adjusted shorter than necessary	The tractor upper link arm should be extended so that when ploughing, the front and rear of the plough chassis are at equal heights from the ground
	The speed of the tractor is more than necessary	The tractor travel speed should be reduced sufficiently
If the front body cannot carry the soil to the previous furrow and the first furrow cannot be closed	The eccentric setting may be incorrect, eccentric may have shifted to the right of the plough too much	By loosening the eccentric connection bolts, slide the eccentric far enough to the left and tighten the connection bolts
	The speed of the tractor is lower than necessary	The tractor travel speed should be increased sufficiently

4. TROUBLESHOOTING

FAULT	FAULT REASON	SOLUTION
If the working depth cannot be kept constant	Tractor hydraulics front selector may be in the wrong position	Front selector is shifted to "DRAW CONTROL" position
	Tractor rear wheels' air pressure may be more than necessary	The air of the tractor wheels is adjusted at the level specified in the tractor operating manual.
	The tractor hydraulics may be defective	Tractor authorized service should be consulted
If the tractor rears up and the steering weakens	The upper link arm may be too short	The tractor upper link arm should be extended sufficiently. If necessary, different options should be used on the connection points of the plough and tractor related to the upper link arm
	Tractor front weights may be insufficient	Weights should be placed in front of the tractor by referring to the tractor operating manual
If the plow handler cannot turn over the soil well and the furrow is not clean	Side parallelism setting may be defective, plough may be too much inclined to the left	Tractor suspension arms height adjustment mechanism is used for adjustment until this problem is solved
	Soil may be very hard and ploughing speed may be too low	The soil should be ploughed in the soak and ploughing speed should be increased sufficiently

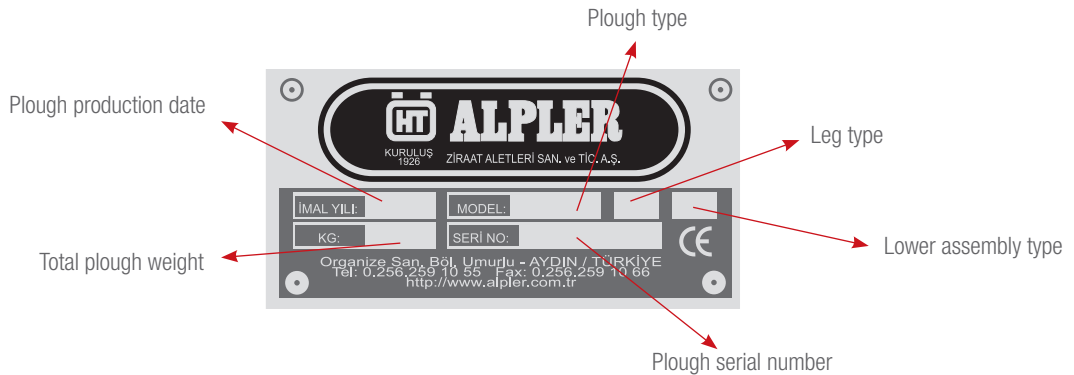
4. TROUBLESHOOTING

FAULT	FAULT REASON	SOLUTION
If the tractor is skidding	There may be too much air in the tractor wheels	The air of the tractor wheels is adjusted at the level specified in the tractor operating manual.
	The weight on the tractor rear wheels may be insufficient	Sufficient weight is attached to the rear wheels or water is filled, referring to the tractor operating manual
	Tractor hydraulics front selector may be in the wrong position	Front selector is shifted to "DRAW CONTROL" position
	There may be a gap in the coupling necks	Check all the connecting pins and necks and replace the worn parts with original ones
	Upper link arm may be incorrectly adjusted	The length of the upper link arm should be adjusted so that it will be slightly inclined towards tractor or straight during ploughing
If the ploughing is wide in the front soak and untreated area remains	The eccentric shaft may be shifted to the right of the plough too much	The connection bolts of the eccentric shaft are loosened and the eccentric is shifted to the left so that there is no untreated area and the connection bolts are tightened again
	Tractor suspension arms may be adjusted at unequal distances from the wheels	The tractor suspension arms are adjusted from tensioning mechanisms so that they are equally spaced from the wheels

4. TROUBLESHOOTING

FAULT	FAULT REASON	SOLUTION
If the ploughing is narrow in the front soak	The eccentric shaft may be shifted to the left of the plough too much	The connection bolts of the eccentric shaft are loosened and the eccentric is shifted to the right sufficiently and the connection bolts are tightened again
	Tractor suspension arms may be adjusted at unequal distances from the wheels	The tractor suspension arms are adjusted from tensioning mechanisms so that they are equally spaced from the wheels

5. WARRANTY



Use original spare parts in ALPLER branded products. The customer will be responsible for the problems that occur due to not using original spare parts. The plough will not covered by the warranty when non-original parts are installed on the plough, additional equipment is attached on the plough or it is used after removing standard parts.

While ordering spare parts, for the codes beginning with '0', plough serial number together with the part code should be provided. For other codes, it is not necessary to provide the plough serial number.

Label information are important for identifying the plough and for spare part orders. As a measure against the illegibility of the label due to deformation or its loss, label information on the plough should be written literally in the corresponding fields of the following label picture, and it should be retained.

Our ploughs are **warranted for 2 years** for faults that may occur due to material, workmanship and mounting errors.

Faults resulting from improper use are not covered by the warranty. The average lifetime is 10 years.

NOTES

A series of horizontal dashed lines for taking notes.



Exports to 70 countries
on 5 continents.

 **ALPLER**

ALPLER AGRICULTURAL MACHINERY

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