



MOUNTED X TYPE TANDEM DISC HARROW

USER MANUAL



 **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.



Attention should be paid to sharp and sharp edges on the equipment.



Locations which need to be greased in each use.



Do not carry people or loads on the plough.



Protection against impacts and Places where no impact should be applied.

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 tandem disc harrow to/from the tractor; do not stand between the tandem disc harrow and tractor.
- Do not move the tractor without being sure that the tandem disc harrow 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 tandem disc harrow.
- While transporting the tandem disc harrow on the road, turn tractor hydraulic to locking position.
- When the tandem disc harrow is elevated, do not stand under it.
- Be careful against the pointed and sharp edges on the tandem disc harrow.
- Front hydraulic selector must be in position control while attaching/detaching the tandem disc harrow, in draw control during operation and in locking position during transportation.
- Be careful against the danger of tipping over of the tractor while working on sloping lands.
- While turning, maximum area to which the tandem disc harrow can reach should be considered.
- If the tandem disc harrow is to be transported at long distances, it should be transported on the trailer.
- The tandem disc harrow should be loaded and unloaded with a hoist or crane when loaded on the trailer and unloaded from the trailer.
- Attachment/detachment of the tandem disc harrow should be carried out with a helper if possible, if not, apply handbrake while descending from the tractor.
- While transporting the tandem disc harrow on the highways, observe applicable traffic rules and be more careful.
- If any maintenance or repairs are to be made on the tandem disc harrow, it should be leveled and completely lowered to the ground, and the necessary safety precautions should be taken.
- Maintenance and repairs to be made on tandem disc harrow should be carried out by trained specialists who are familiar with safety precautions.
- The tandem disc harrow and tractor categories should match each other.
- Warning labels on the tandem disc harrow 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. POINTS TO CONSIDER WHILE SELECTING TANDEM DISC HARROW

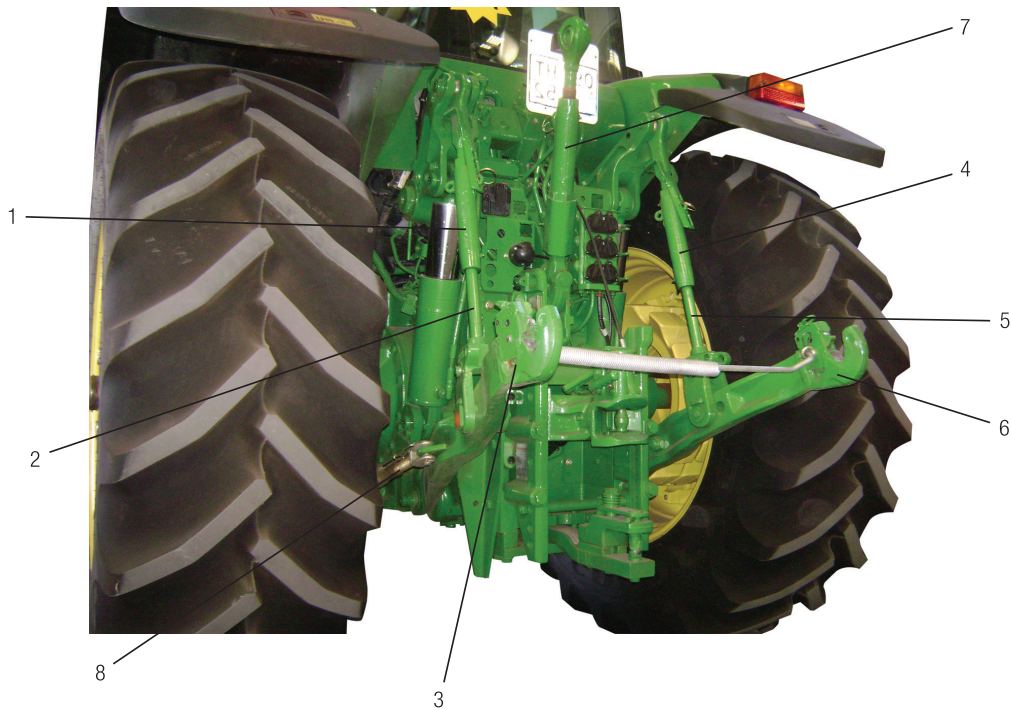
- The power of the tractor to be used must be suitable for the power requirement of the equipment.
- The soil structure in which the equipment will be used should be taken into consideration.

2.2. GENERAL RULES TO BE OBSERVED

- Move slowly and carefully under poor land and road conditions.
- Do not use the tandem disc harrow for root removal, rock removal, etc. on the land, use only for ploughing.
- Do not attach any additional equipment which are not genuine parts on the tandem disc harrow.
- Never perform welding on the tandem disc harrow, replace the damaged part with an original one.

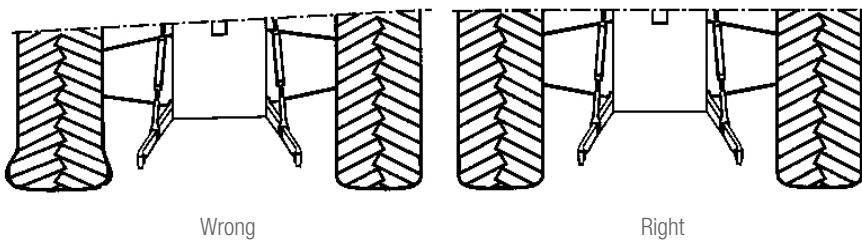
3. SETTINGS

3.1. TRACTOR PREPARATION



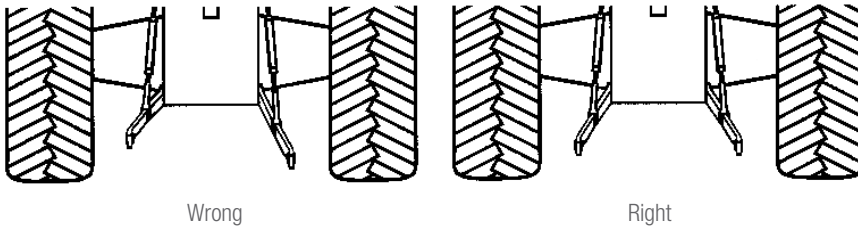
1. Left lower link arm height adjustment mechanism
2. Left lower link arm height adjustment lever
3. Left lower link arm
4. Right lower link arm height adjustment mechanism
5. Right lower link arm height adjustment lever
6. Right lower link arm
7. Upper link arm (Middle arm)
8. Right lower link arm tensioning mechanism

• Air in the right and left wheels of the tractor should be adjusted equally.

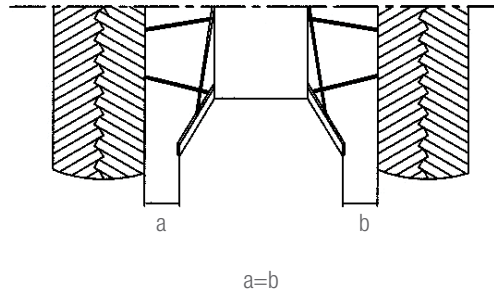


3. SETTINGS

- 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 tandem disc harrow, 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.

3.2. ASSEMBLY OF THE TANDEM DISC HARROW TO THE TRACTOR

- Shift the hydraulic front selector to "POSITION CONTROL".
- Take the tractor closer to the tandem disc harrow 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 the tandem disc harrow 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 tandem disc harrow is completely fixed to the tractor and the necessary precautions are taken.

3. SETTINGS

3.3. DISASSEMBLY OF THE TANDEM DISC HARROW FROM THE TRACTOR

- Take the tandem disc harrow to a suitable location.
- Shift the hydraulic front selector to "POSITION CONTROL", and the tandem disc harrow is lowered to the ground.
- 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 tandem disc harrow is completely detached from the tractor.

4. USAGE

4.1. INTRODUCTION AND BASIC INFORMATION ABOUT MACHINE SPECIFICATIONS

- Special alloy, long life, geared and flat discs.
- Easy operation angle adjustment that can be set as mechanical (standard) or hydraulic (optional). Prevents clogging with extended disk space and disk stripper.
- Additional weight baskets for heavy and stone soil conditions (optional)
- Steel bearing bearings and reels for trouble-free and long life work.

4.2. MATTERS TO BE CONSIDERED WHEN SELECTING EQUIPMENT

- The power of the tractor to be used must be suitable for the power requirement of the equipment.
- The soil structure in which the equipment will be used should be taken into consideration.

4.3. RULES TO BE OBEYED

- In bad land and road conditions it should be slow and careful.
- The equipment should not be used for root removal, rock removal and similar works in the field, but should only be used for plowing purposes.
- Equipment should not be immersed in the soil too deeply during plowing. Always keep the tractor speed constant for the plowing to be smooth.
- No maneuver should be performed while the equipment is in the soil.
- No non-original parts should be attached to the equipment.
- No welding should be performed on the equipment, the damaged parts should be replaced with the original one.

5. WARNINGS

5.1. WARNINGS REGARDING HUMAN HEALTH AND ENVIRONMENTAL HAZARDS DURING USE



WARNING

Risks that cannot be avoided:

Emergency information: Not available.

Type of firefighting equipment: Not available.

Dangerous substance escape, effects and ways of intervention: Not available.

Information on personal protective equipment, information on human and environmental health, special safety information to be obtained by the user:

When you attach your machine to the tractor and go to traffic, follow traffic rules, especially lighting and necessary protection mechanisms, and take safety precautions. Comply fully with safe handling and Accident Protection instructions.

TRAFFIC:

Lighting equipment (stop lamps, cat eyes, etc.) that allows tractors to be seen by other drivers while watching on the highway should always be clean and operational.

During breaks, the tractor must be passed through a general control (rubber air and malfunctions, loose nuts, safety pin, traffic lights, etc.).

For the machines that are outside the tractor, attach a sign flag.

CLOTHES:

Use appropriate work clothing. Do not use loose clothing. They can be covered by rotating and moving machine parts.

If you are going to use the machine for the first time, read all instructions carefully. In case of doubt, contact the manufacturer/importer company. It is forbidden for third parties who are unauthorized and not trained to use and maintain the machine. Do not operate in poor lighting conditions.

If it is not connected to the tractor, it should not be parked on a inclined surface and should be prevented from moving safely in case it is not connected to the tractor.

Do not expose the machine to excessive force during use and maintenance.

When transferring your machine to another location, be sure to remove it from the points of removal specified on the machine.

In order to connect the machine and tractor, the tractor must be brought closer to the machine. The machine should not be stepped on and not to come in front due to the danger of tripping in case of movement of the machine on top of the machine and in case of movement. Regularly check protective cover and parts against wear and tear.

MACHINE:

Only connect the specified type of tractors according to the instructions. or change it before using bent parts.

When the hydraulic handle is lowered, be careful when the hydraulic handle is lowered because it may be subject to impact hazard if it is located in the danger zone. Do not touch the moving and rotating parts in any way.

Wait until they stop completely before touching the machine elements.

Do not put weight on the machine while it is operating and while it is stationary, do not remove human beings from the danger of puncturing or deflecting, and do not put your hand into it. When machine is not connected to the tractor should be placed in a balanced place. When the hydraulic handle is lowered, be careful when the hydraulic handle is lowered because it may be subject to impact hazard if it is located in the danger zone.

It should not be entered under the casing, bunker with raised hydraulic equipment.

After connection is made on the hydraulic set models, it should be checked whether there is leakage in the hydraulic hoses and connection points.

When the hydraulic connection is made, the danger zone should be protected and pressure should be adjusted and controlled visually. Make sure that the person using the tractor to which your machine is mounted is a licensed (F) and experienced driver.

5. WARNINGS

TRACTOR:

The exhaust gas is toxic. Therefore the tractor should not be operated in unsuitable and indoors.

The clutch should be thrown-in smoothly and the tractor should be moved. Sudden and hard starts can cause dangerous springs and rearing up, especially when going uphill or taking loads.

When driving downhill, the gear must not be released.

Never ride on the tractor while it is moving.

When going to the highway, make sure that the brake pedals are connected to each other (with the brake latch attached). Otherwise, the tractor is thrown dangerously during braking.

Other than the person using the tractor, one or a few passengers should not be carried when the tractor is in motion unless the tractor is equipped with sitting place or places.

When necessary, the tractor front or rear weights should be installed or tyres should be filled with water.

The tractor should always be used with its own safety frame mounted on it. The safety frame must be checked from time to time to ensure that its connections are complete, not broken or defective.

In very hot weather the fuel tank should not be filled fully. The volume of the fuel can be increased by heat. Any leak that occurs should be immediately wiped and cleaned.

The tractor should not be tried to operate and maneuver before sitting in the driver's seat.

During the field trip and return, stretch the side chains of the tractor hydraulic arms. The three-point connector must be attached to the safety pins. Hydraulics must be locked. The connection shaft must be removed.

Please note that some functions of the tractor (brake distance, steering wheel, center of gravity, etc.) shall change.

Especially in mounted machines, going to the field, turn corners and bumps should be entered very slowly.

The tractor front selection lever should be in "position control".

Check tire pressures before getting off and during breaks.

Slow and careful action should be taken when pulling heavy loads. Only the towing hook must be used for the towing operation. If there is no proper clamping scheme, it should not be attempted to use hydraulic lifting, middle suspension and side-rowing arms. Otherwise, it may cause a rearing up.

Connect your machine to the tractor in the appropriate category specified in the instructions for use with an appropriate pull power and hydraulic lifting scheme. The control device must be in position "0" before connecting and disconnecting on mounted type machines.

Your machine and tractor should have the same category as the three-point mounting scheme. Before connecting your machine to the tractor, pull the tractor's handbrake, and shift the gear to neutral. Be very careful when connecting and disconnecting the machine to the tractor. When connecting the machine to the tractor, there must be no one between the machine and the tractor against the danger of being crushed, pinched, cut and broken.

Start working after taking all safety precautions on your machine and tractor. If your tractor is working, never leave the driver's quarters.

Be careful of the danger of tipping off when working on inclined terrain.

Precautions should be taken to prevent hazards arising from the change of the center of gravity during loading.

Do not go back during work.

Before you leave the tractor, lower the hydraulic machine. After turning off the engine, pull out the parking brake. Get the ignition key.

Make adjustments to your machine only when the tractor engine is switched off and the wheels are on a wedge. Before starting maintenance, adjustment or repair, take the tractor's ignition key with you. Ensure that the work turn is completely lowered to the ground before leaving the equipment attached to the rear of the tractor.

If possible, the tractor should be parked in a flat place and plug it into one of the gears and the handbrake must be pulled in this case. If it is to be parked on a slope, it should be mounted on the slope up and down first gear, and in both cases the handbrake should be pulled. Especially if the tractor is connected to the trailer, to be more secure wheels should be put a wedge.

ENVIRONMENT:

Before starting the tractor and machine, make sure that there are no other persons, especially children and pets around the machine, and take the necessary precautions to ensure that you can see the environment easily.








Obstacles such as tree roots with should be disposed of by obstructing land barriers by paying attention to the colths, nylon and similar waste materials.

It should not be used in very stony fields. Do not approach to the machine during operation, do not approach anyone.

The correct plowing should be made against the danger of erosion.

6. TECHNICAL INFORMATION

6.1. TECHNICAL SPECIFICATIONS

MODEL	 Number of Discs (PIECES)	 Disc Diameter (MM)	 Disc spacing (CM)	 Working width (CM)	 Working depth (CM)	 Weigth (KG)	 Power requirement (HP)
AXD20-460	20	460	19	190	10	620	35-45
AXD24-460	24	460	19	228	10	665	40-50
AXD28-460	28	460	19	266	10	752	50-65
AXD32-460	32	460	19	304	10	797	65-85
AXD36-460	36	460	19	342	10	834	85-100
AXD20-510	20	510	19	190	15	645	40-50
AXD24-510	24	510	19	228	15	700	50-65
AXD28-510	28	510	19	266	15	790	65-85
AXD32-510	32	510	19	304	15	840	85-100
AXD36-510	36	510	19	342	15	885	100-120

6.2. STANDARD NUMBER

TS 5295

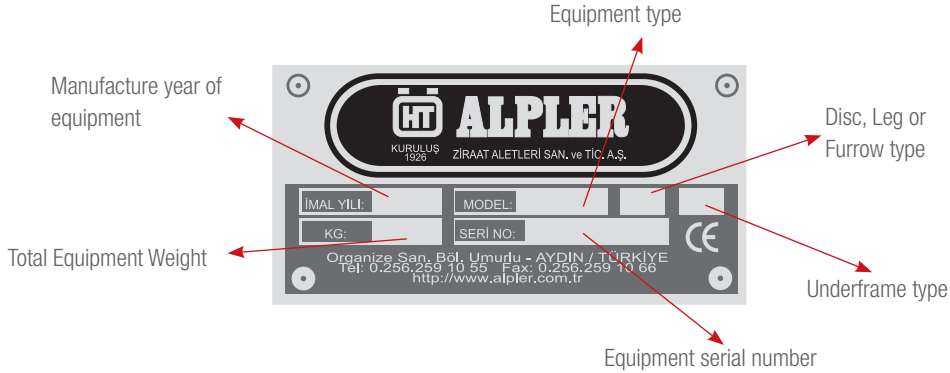
6.2. PRE-PREPARATIONS AND SETTINGS FOR USE

- The upper connection arm should be extended and shortened so that the front and back of the equipment's chassis is equal to the ground level during the plowing.
- When the equipment is in the soil during plowing, the upper arm must be straight or inclined towards the tractor. This setting can be made by changing the height options at the equipment clamping head and tractor upper arm clamping place.
- While plowing, the equipment should be evenly spaced in both arms (or chain), so that it can be rocked to the left and right.

7. WARRANTY

7.1. LABEL SPECIFICATIONS AND READING

- Our production introduction labels are written on an aluminum metal sheet with an emblem of ALPLER ZİRAAT ALETLERİ SAN. ve Tic. A.Ş. with the method of dot matrix marking.
- The label details is as the picture stated below.
- The validity of the label is as much as the service life of the equipment.
- If the label is broken or the surface is scratched, record the label information.



7.2. 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 hydraulic levelling plow will not covered by the warranty when non-original parts are installed on the hydraulic levelling plow, additional equipment is attached on the hydraulic levelling plow 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 hydraulic levelling plow serial number.

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

Our hydraulic levelling plow 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.

8. MAINTENANCE

8.1. PERIODIC MAINTENANCE INFORMATION, TIME OF PERIODIC MAINTENANCE AND WHOM TO BE PERFORMED

- Grease the nipples.
- Replace worn end irons.
- The periodic maintenance of the equipment will be carried out by the consumer

8.2. CONSUMER CARE AND THE RULES TO BE FOLLOWED

- When your job is finished, clean the machine from plant and soil.
- Clean between the springs.
- Remove the foreign matters from rolling spikes.
- Grease the nipples.
- Keep your machine in a closed place against rust.

8.3. POSSIBLE FAILURES AND TROUBLESHOOTING

FAULT	FAULT REASON	SOLUTION
The disc harrow is not submerging	The soil is hard, the plowing angle is not appropriate, the discs are worn.	It should be plowed at the mellowness of soil if necessary additional weight is put, version angle is re-adjusted, the disks should be replaced with a new one.
There are gaps between discs and bearings	The main shaft tightening nut is loosened.	The main shaft nut is tightened.
The disks are turning hard	There is jamming in ball bearing or bearing.	Ball bearing or bearing are greased or replaced.
Soil sticks to the discs	Scrapers are not set properly	Scrapers are set close to discs

9. REPAIR

9.1. RULES TO BE OBEYED REGARDING TO REPAIR

Any repairs other than the consumer's own repairs will remove the defective part from the warranty. Failure to use original spare parts during the repair period excludes the part from the warranty as well as the human and environmental health damages arising from this situation.

9.2. CONSUMER REPAIRS

- Replace the nipple.
- Replace the seal of ball bearings.
- Replacing the spring pin.
- Tightening the loose bolts. Replacing (end metal) blades

9.3. AFTER SALES SERVICES, SERVICE AND SPARE PARTS

For requesting after-sales services and supply of spare parts, you can contact our company's address below.

Important warning: Equipment that is outside the limits determined by the highways are strictly forbidden to go to the highways. (AXD28 and above disc harrows are not suitable to exit highways)



Exports to 70 countries
on 5 continents.

 **ALPLER**

ALPLER AGRICULTURAL MACHINERY

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