

ROTARY TILLERS

(A-TSR1400-1600-1850-2100-2400-2500)

USER GUIDE



HT ALPLER

ATTENTION



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

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WARNING SIGNS & MEANINGS



WARNING

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



THE RISK OF FALLING DOWN

This symbol expresses the risk of falling down by losing the balance or because of other causes.



READ MANUAL FIRST

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



KEEP CHILDREN AWAY

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



Do not carry people or loads on the machine.



Be careful against danger of entrapment.



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



Be careful against danger of entrapment between the tractor.



Locations which may not be subject to impact and should be protected from impact.



Do not open or remove safety shields while the engine is running.



Locations which need to be greased in each use.

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 utilisation 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 TRAINING

Safety is a primary concern in the design and manufacturing of our product. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of this equipment.

It has been said, “ The best safety device is an informed, careful operator.” We ask you to be that kind of operator. It is the operator’s responsibility to read and understand all safety and operating instructions in the manual and to follow them. Accidents can be avoided.

Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. If this machine is used by any person other than you, or is loaned or rented, it is the rotary tiller owner’s responsibility to make certain that the owner’s manual be available to the operator prior to operating:

- Reads and understands the operator’s manuals.
- Is instructed in safe and proper use.

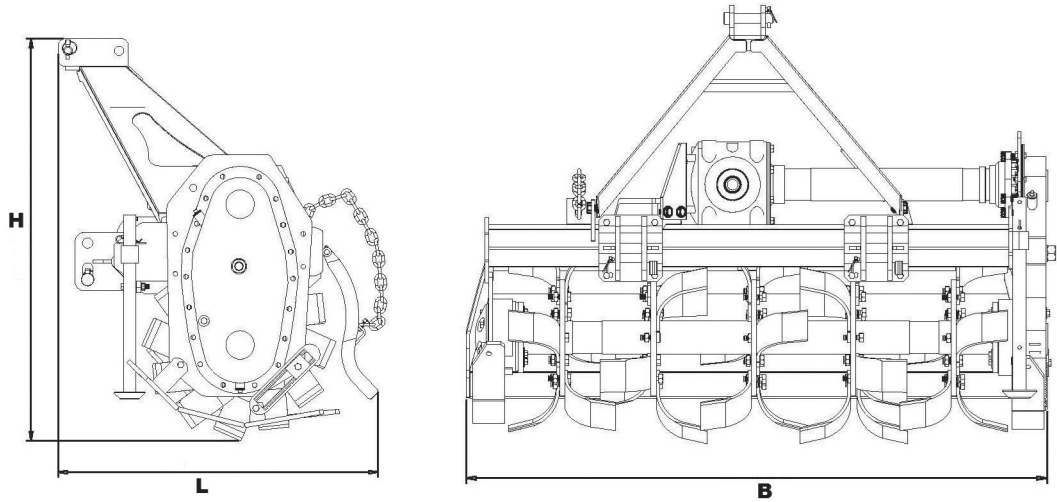
Know your controls and how to stop the tractor, engine, and tiller quickly in an emergency. Read this manual and the one provided with your tractor.

Train all new personnel and review instructions frequently with existing workers. Be certain only a properly trained and physically able person will operate the machinery. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposesm himself and bystanders to possible serious injury or death.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or ALPLER company.

3. DIMENSIONS OF MACHINE

3.1. ROTARY TILLERS FIXED POSITION



MODEL	L (Length) mm	B (Width) mm	H (Height) mm
A-TSR 1400	850	1516	1100
A-TSR 1600	850	1770	1100
A-TSR 1850	850	2024	1100
A-TSR 2100	850	2278	1100
A-TSR 2400	900	2570	1230
A-TSR 2500	900	2825	1230

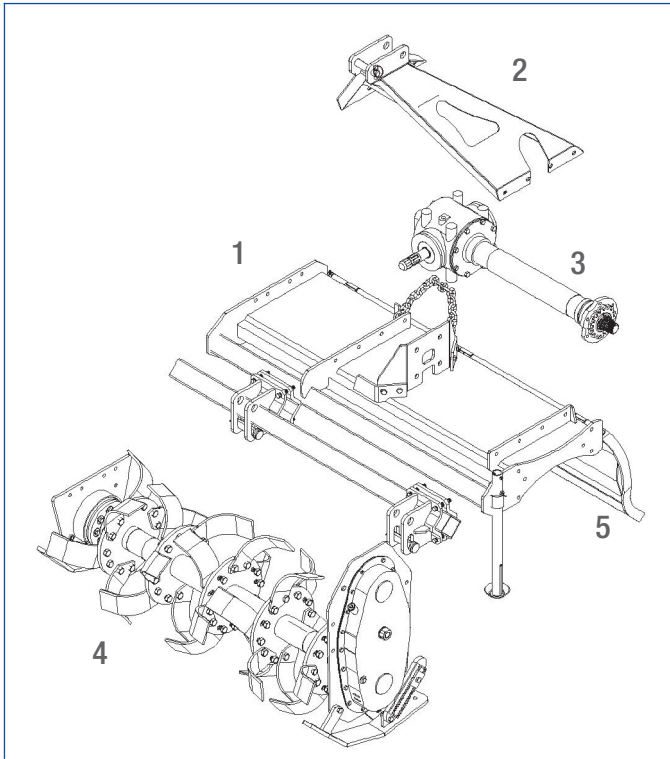
Rotary Tillers Fixed Position, in land where is made vineyard, orchard and field agriculture, due to its special structure, achieves following operations.

- Above the soil surface it constitutes good crumbled loose environment.
- It provides preparing seed beds and seedling bed.
- It eliminates wild herbals with mechanic way.
- It cures water, air and heat environment in soil
- In fruit and vegetables agriculture, mixes plant wastes, organic and mineral dungs in soil.
- T-SR rotary tiller is a soil cultivation machine which is taken action from queue pin.
- Turning processor bodies works vertical to soil surface.
- This machine benefits below the followings; having turning bodies and being taken action from queue pin versus machine types that is pulled.

4. INTRODUCING THE MACHINE

- Up to 22 cm depth in the soil provides a good mixing and smashing.
- Due to its effective cultivation bodies, in every type of soil it achieves satisfying soil cultivation.
- In a transition of the machine leaves a little bit track and jammed layer in soil.
- Sending motivity from tractor to machine by using gears instead of chain provide a high efficiency.
- The machine is driven by the pto of the traktor, it provides saving from energy.

4.1. MAIN PARTS OF THE MACHINE



1. Main Chassis
2. Three Point Hitch System (with Optional Wheel or Sledge)
3. Gear Box
4. Rotary Cutter Unit
5. Protection Cover

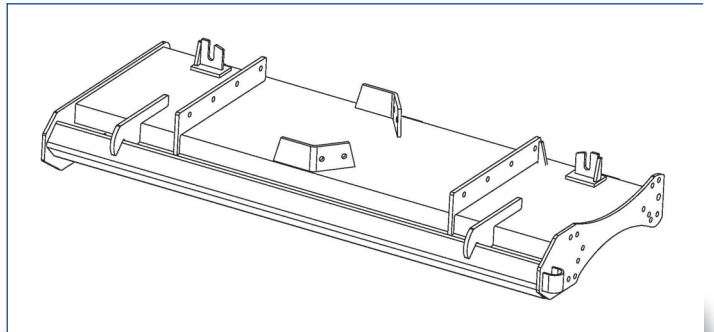
1. Main Chassis

Main chassis's side parts made curled sheet in a special form are closed with two sheet parts.

Second gear box is tied one of the two parts which is nearer the three point formation of hanger, with milling pin, made of sheet metal, square part is tied the other one.

In front of the roof, from sheet given special form rafter and extensions of these parts are boiled (pic.4).

Three point formation of hanger's connection roof is tied this profile with special cuffs and can be scrolled left and right.



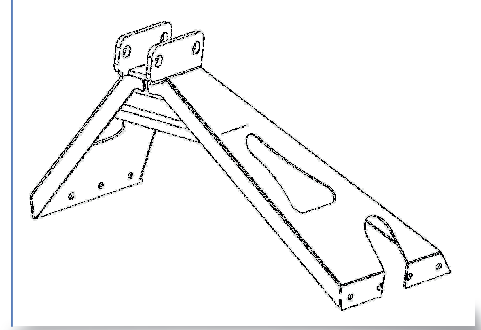
4. INTRODUCING THE MACHINE

2. Three Point Hitch System

The main roof of formation is consisted with u shaped pipe roll. Top and bottom connection points provided connection with tractor formation of hanger, made by sheet tablets attached above the pipe roof with welding.

In back of the bottom connection points with special form bearing pipe is installed.

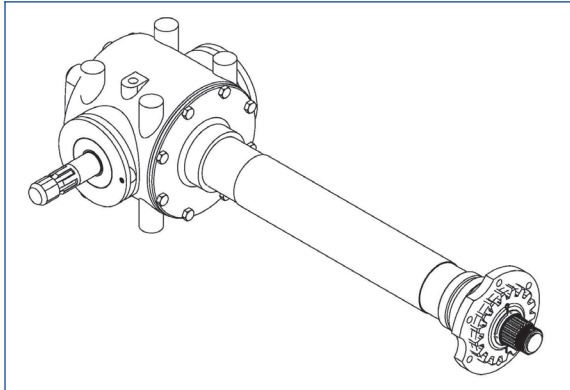
Like this way, three point formation of hanger comes true above the special builded shift pin in desired shift distance. Hydraulic side shifting rotary tillers is tied with tractor with the help of top and side arms.



3. Gear Box

Rotary Tillers Fixed Position motion transmission is provided by gear boxes.

Max. input rotation speed of 540 (rpm) return movement comes first gear box from above the safety gripped hinge pin.



This gear box must act together when three point formation of hanger is moving left and right.

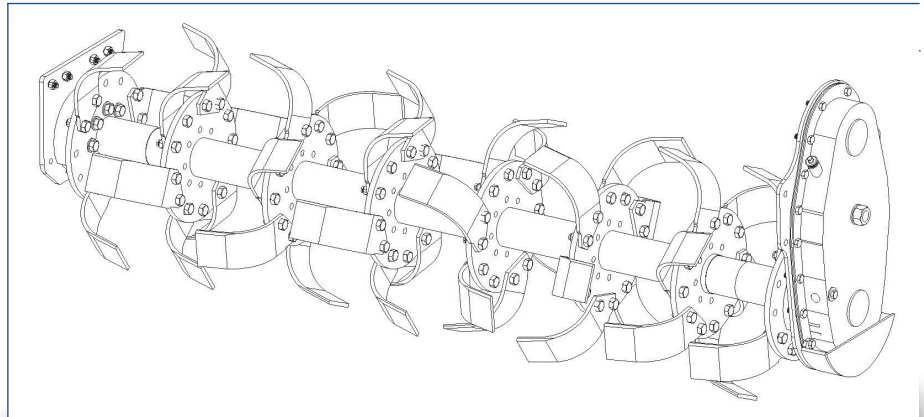
Movement which comes from first gear box, with 90° changing direction, delivers second gear box on the side with a pin.

In second gear box, gear which is tied entry pin delivers the movement to the fraise pin through 3 quantities of gears.

Two of gear boxes are with oil bath.

4. Rotary Cutter Unit

A milling pin which has flanges above it consists of milling knives and two bed units. Milling pin's flanges in both of outer tips are tied with 3 knives, remained other flanges' each of tops are tied 6 knives.

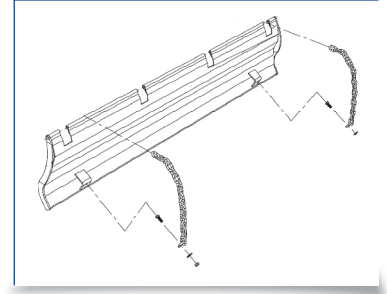


4. INTRODUCING THE MACHINE

5. Protection Cover

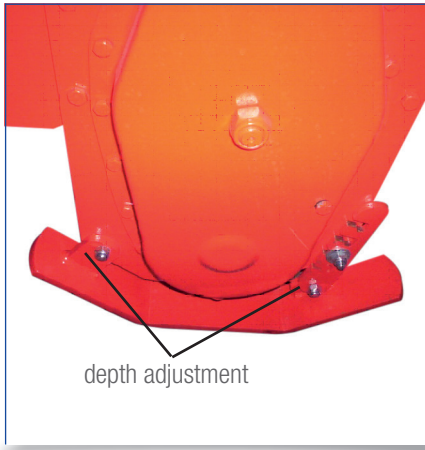
Protection cover made of sheet tied main roof with hinge exists. There is a chain that provides this cover opening in stages. Protection cover increases the smashing effect of milling, at the same time saves environment and living beings from bursting stone and soil pieces. Soil which is smashed by knives, smashes again by knocking the cover.

Depending the machine's working dept, slope of the protection cover modifies with the stock bolt and chain which provide setting opportunity without stage. In stone safety, excessive force's modifying is provided with a pressure spring that can be set with pass.



6. Depth Settings formation

To adjust the A-TSR Rotary tiller working dept, two slides exist in milling's both sides.



Slide's connection parts that are made of folded iron are integrated by welding method and tied main body in both sides.

Working dept is adjusted through adjustment parts are scrolled up and down.

5. TRANSPORTING



ATTENTION!

When the machine tied tractor and tractor is working.

- Never carry anyone or any animal on the machine.
- Pay attention on the traffic rules on public roads.
- Check out the lightening, warning decals, and protection guards before starting to work.
- Pay attention to work with the machine in the daylight. Especially at nights in public roads take care to have safety decal (light decal apparatus) on the machine.

5. TRANSPORTING

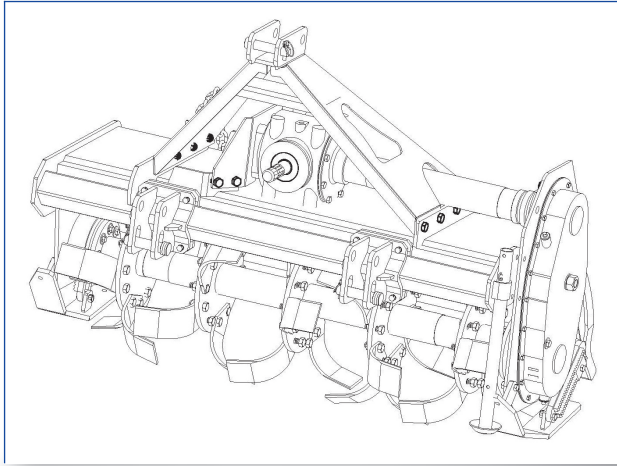
Working With The Rotary Tillers Fixed Position

Should be made in sufficient daylight and in roads opened to traffic, traffic rules must be taken care. Especially at nights, machine must be lighted up within the framework of traffic rules. Our offer is Cateye lightening.

Carrying The Machine From A Place To Another Place

- 1. Transporting with forklift:** Please select an forklift which is convenient to the machine's weight. Lift it from center of gravity. Hook forklift to part that is made for carrying function in machine, carry the machine.
- 2. Transporting with winch:** It's the same as carrying with forklift. Carry by hooking winch grapple with carrier part which is in machine's center of gravity point. Be sure that winch hook lock works.
- 3. Transporting with the help of palette:** Select convenient palette for the machines dimensions. Carry the machine on palette with the help of forklift.

Carrying point



ATTENTION!

Pay attention to be not under the machine while transporting.

- Never be under the machine or near the machine while transporting it by forklift, crane or palette.



ATTENTION!

Take care winch's and farklifts' hooks' and ropes' safety which will be used during carrying.

- Take care of the security of the hook and iron ropes. Be sure that they are full of security.

6. PREPARATION AND RUNNING OF THE MACHINE

Connecting The Machine To The Tractor

- Connect T-SR Rotary tiller to tractor by its three point hitch system.

At the same time put top and bottom safety pins according to convenient category.

(**Note:** Tractor max draw power till 40 HP are stated Category-I, draw power which is between 40-100 HP are stated Category-II.)

For this reason top and bottom pins diameters will be selected according to Category-I and Category-II and wear them.

Rotary Tillers Fixed Position is arranged according to Category-II. See **Table-1**.

- Insert the safety pin.

Arrange the top and bottom arms so that the machine is parallel to the land.

(**Note:** Meanwhile tractor must be in a smooth surface.)

Category	Max draw power (HP)	Bottom arm tractor connection pin: hole diameter Ø(mm) (max.)-(min.)	Top arm draw connection pin: hole diameter Ø(mm) (max.)-(min.)
I	0 - 40	22,10 - 21,84	19,56 - 19,30
II	40 - 100	28,45 - 28,19	25,91 - 25,70
III	80 - 225	36,85 - 36,32	32,26 - 32,00
IV	180 - 400	50,80 - 49,70	45,50 - 45,20

Table-1

(Sufficient tractor top and bottom arms connection pin and dimensions for attaching the machine and tractor)



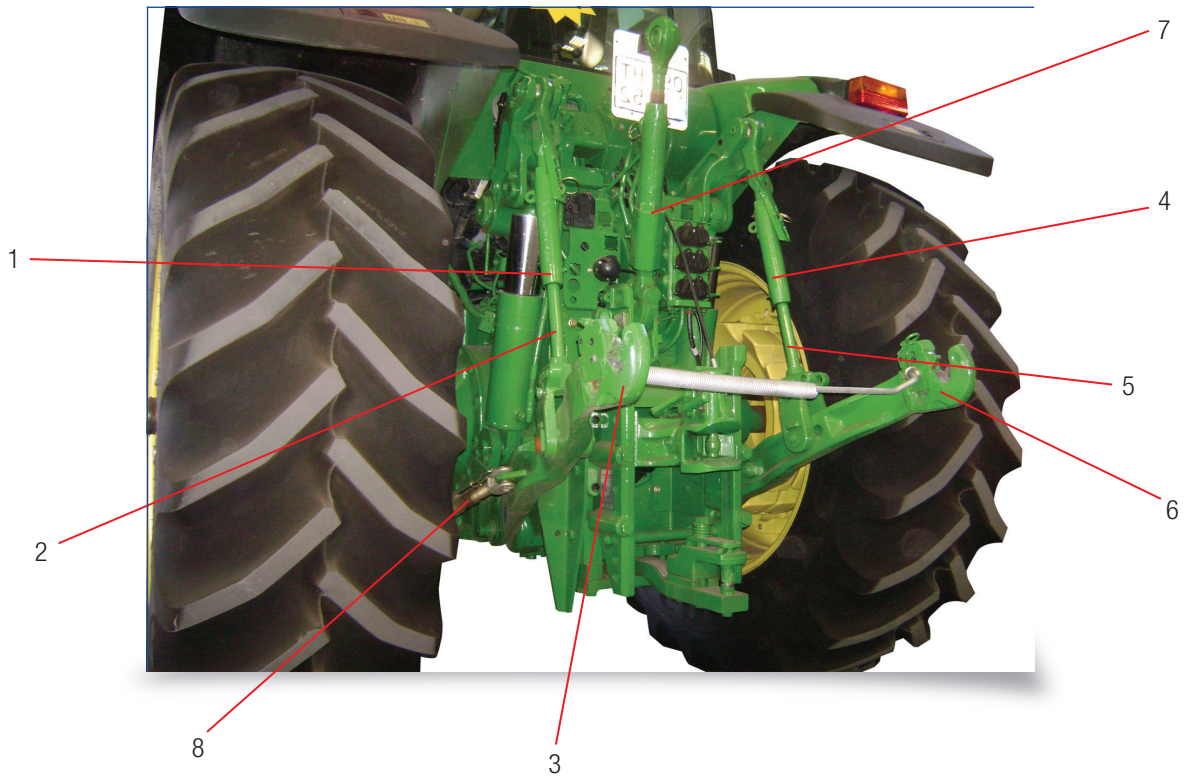
- Max. Input rotation speed of the Rotary Tillers Fixed Position is **540 RPM**
- Provide to reach selected tractor's queue pin revolutions per minute convenient revolutions per minute for the machine.



ATTENTION!

Stop the engine then adjust and prepare the machine for work.

6. PREPARATION AND RUNNING OF THE MACHINE



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

Connecting The Machine To The Tractor

Firstly connect the lower non adjustable arm then adjustable arm at the end connect upper connection arm. While disconnecting the machine, do the opposite.

6. PREPARATION AND RUNNING OF THE MACHINE

Connecting The P.T.O. Shaft

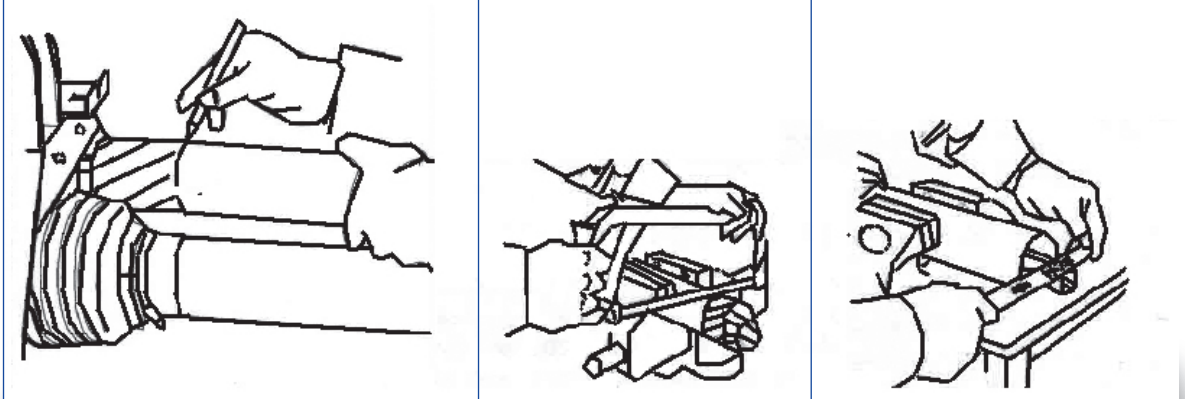
SERIES 5 P.T.O shaft which has **Friction Limiter Clutch** is used in Rotary Tillers Fixed Position.

- Before connecting the pto, clean the surfaces of spindle and lubricate them with grease. Later shift the shaft on the pto spindle until the pin fits into safely. The shifting distance must be at least 15 cm. Take pto shaft guard in a safety position by hanger. This safety position is for the tractor and for the rotation of fixed parts.
- P.T.O shaft can only be connected when the P.T.O connection and engine are switched off and the ignition key is pulled down.
- Connect the prescribed P.T.O. shaft and secure the P.T.O shaft connection by a chain Make sure that the P.T.O shaft is in proper position on both ends. The adjustment of the P.T.O shaft is necessary for different tractors. To find out the right length. Shorten both shafts and protection tubes for exactly the same length.
- To find the right length:

Connect the machine to the tractor.

Pull out the P.T.O shaft entirely and connect each separate half of the shaft to the tractor and compare them with each other.

If the covering of the P.T.O shaft and P.T.O shaft does not run into the block at horizontal position. In case you need to shorten the P.T.O shaft. Shorten the shaft in exactly the same length.



Cutting the shaft spindle for a suitable length for the tractor



ATTENTION!

When the machine is working, don't intervene the machine with hand, foot, foreign tools strictly.

- Pay your attention to proper mounting and securing of the P.T.O shaft.
- Make sure that nobody is in the area of danger of the implement before switching on the P.T.O shaft connection.
- After switching off the P.T.O shaft connection the danger of rotating heavier parts remains. Do not get close to the implement during this period. You can start to work only when the rotation is completely stopped.

6. PREPARATION AND RUNNING OF THE MACHINE

- P.T.O shaft protection must be fitted on and must be in perfect condition.
- Use only original P.T.O shafts prescribed by your manufacturer. Because the manufacturer will not take any responsibility if another shaft is used.

When The Machine Is Taken To The Farm

Start the engine of the tractor for a minute. Hold the machine with main hydraulic arm. Attach the security lock for not to damage to the hydraulic system while driving. Stretch the stretching chains to prevent swinging.

- When using the road queue pin, be careful that Revolutions Per Minute depends on tractor's speed and turning way can't be opposite in back movement.
- In machine's carrying position, take care of from tractor wheels, excess outside.
- The movements in curves, take care of freight condition and drift mass of the machine.
- It's dangerous to work with tractor in downhill. Still If you have to do it, take care about it and don't turn curves so severe.
- To provide a safe movement stability, to cultivate the downhill working field; take care of fitting the tractor with sufficient addition weight.

Before Starting Up In Farm

Put tractor hydraulic control arm to position control condition and make the height adjustment.

In position control condition, when you are moving hydraulic arm a little, tool lifts up, stops in a level, if you move the arm again, it lifts some more and stops, namely draw doesn't rise the top point like in control.

Note: Hydraulic setdown-lifting arm is lifted up and put it in a certain level.

In this condition tool and machine completely lift up, front elect arm is in "DRAW CONTROL". If tool and machine don't lift completely, and lift in a certain level, it's in "POSITION CONTROL".

Position control condition provides the machine's working in the field by putting tool and machine which are depended hydraulic connection arms in a certain height.

When you're working with like Rotary Tillers Fixed Position, front election arm must be in position control condition. Safety Max. Input rotation speed of the Rotary Tillers Fixed Position is 540 RPM. After providing a convenient dept, the machine is taken to the field with a convenient gear it is started up moving on and working.

- Running and stopping of Rotary Tillers Fixed Position is arranged only from tractor driver place.
- Rotary Tillers Fixed Position must works into the circle that has 5 m distance between itself and people. Because in this field pieces that machine throws like stone and soil may come.
- Rotary Tillers Fixed Position is worked only in flattened smoothy field.

Besides, be careful about if stone and chips exist in the field or not. Then these strange materials is in working field, it can cause harm to machine's cultivation bodies, knives, and at the same time herbals and people.

- Side Shifting Rotary Tiller don't be worked in nonsmoothy fields.
- Machine's working speed is arranged only by depending working conditions.
- During working with the machine, in the end of the turnings tractor queue spindle is stopped and you wait until the machine is stopped.

Before the turnings the machine is lifted and slinged. So danger of throwing field pieces which the machine's got disappears.

- If your tractor which you run Rotary Tillers Fixed Position with doesn't have a close driver cabin, please during the working use a protection glasses and noise.

7. MAINTENANCE AND REPAIR

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded.
- Use adequate light for the job at hand.
- Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
- A fire extinguisher and the first aid kit should be kept readily accessible while performing maintenance on this equipment.



WARNING!

Before working on this machine, disengage the PTO, shut off the engine, set the brakes, and remove the ignition keys.

- Be certain all-moving parts on attachments have come to a complete stop before attempting to perform maintenance.
- Never work under equipment unless it is blocked securely.
- Make sure there is plenty ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- Frequently check tiller tines. They should be sharp, free of nicks and cracks and securely fastened.
- After the first 3 hours of work and then periodically tighten all bolts, nuts, and screws and check that all cotter pins are properly installed to ensure unit is in safe condition.
- After the 12 hours of work, drain out oil from gearbox and side gear case. Fill 1,5 litres diesel fuel into both boxes and drain it out after run the machine at the idle motion about one minute. Then put oil into both boxes until the oil level plug.

When completing maintenance or service function, make sure all Safety shields and devices are installed before placing unit in service.

- After servicing, be sure all tools, parts and service equipment are removed from tiller.
- Do not allow debris, grease or oil to build up on any deck or platform.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications.
- The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
- Periodically check and maintain proper gear oil level.
- Every 8 hours, (1) grease out-board hub, (2) PTO shaft universal joints, (3) PTO shaft safety shield and (4) PTO telescoping surface.

NOTE: Use only a grade Type II tube grease.

NOTE: Do not grease the slip clutch assembly.

- Before each use check to make sure all safety shields are installed and working properly.
- Check tiller tines for cracks and breaks before every use.
- Periodically check all nuts and bolts to insure they are tight and secure.
- Periodically loosen torque spring bolts and allow slip clutch to slip for approximately two (2) revolutions.
- Loosen the bolts until the springs lose contact with the flange choke. This ensures that the slip clutch is not in a “locked” position.
- Make sure that the clutch slips.
- To retighten the slip clutch, tighten the torque spring bolts until the nut makes contact with the flange yoke and further tighten one and a half turns (1-1/2). This is a good starting point; further adjustments may need to be made based on soil conditions.

7. MAINTENANCE AND REPAIR

NOTE: Do not over or under tighten slip clutch assembly or damage may occur.

Rotary Tillers Fixed Position requires nearly no keeping and reparation, it's made like this.

As about the machine's Keeping and reparation, please take care of the following matters

- Make over regularly the gear oil and grease.
- In electric welding affairs that they will be made in tractors and machines connected to the tractor, connect the cables to batteries and generators.
- Gear box's oil firstly after 30 working hours and than after every 300 working hours is changed. Amount and quality of Filling oil is explained in "technical values" part.
- The machine is kept in strict and smoothy surface, dry and closed place. The machine is put in wedges and so danger of rolling and overturning is prevented.
- To achive a high work safety and quality, take care of fraise knives' condition. So, before every starting up working, take care of knives' convenient tightness and same wornness. Change the twisted knives immediately.
- In A-TSR Rotary tillers, vibrations occur more because of the balance disorder in knife unit. These vibrations can cause big damages in machine. If you determine an importand increase in vibrations or a sudden change in fraise knives' sound when it's working; stop the machine and search the reason by determining defect. After eliminating the defect, start to run again.
- To clean the machine, wash the machine with high pressure water bundles. Don't hold on bearings and felts. Otherwise bearings and felts are damaged.
- Control the bolt connections which ties knives to roller regularly. When you disassemble Security nut (Hardware nut), tighten with a new Security nut (Hardware nut). Periodically control knives carrier parts' conditions and corrosion, knives connection holes and knife carrier flanges regularly. For your Interval anchor machine's reparation, call an expert service or Alpler factory authorized service.

Maintenance Period	Daily	Weekly	30 hours	100 hours	400 hours
Greasing (control of transmission oil level) Changing of oil (SAE140)			A		C
Control of oil leak	A				
Control of knife corrosion				A	
Lub. grease nipples		B			
Control of tightness (bolt-nut)	A		C		
Cleaning	B				

A: CONTROL

B: KEEPING

C: CHANGING

8. STORAGE SAFETY & SECURITY LABELS LOCATIONS

STORAGE SAFETY

Following operation, or when unhooking the tiller, stop the tractor, set the brakes, disengage the PTO, shut off the engine and remove the ignition keys.

- Store the unit in an area away from human activity.
- Do not park equipment where it can be exposed to direct contact to livestock for long periods of time.
- Damage and livestock injury could result.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.

SECURITY LABELS LOCATIONS

The types of Security labels and locations on the equipment are shown in the illustration below. Good Safety requires that you familiarize yourself with the various decals, the type of warning and the area, or particular function related to that area, that requires your SAFETY AWARENESS.

NOTE: The numbers represent the Security labels.

Security Labels:

There are three types of security labels:

DANGER!

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components, which, for functional purposes, cannot be guarded.

WARNING!

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION!

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

All machines have stickers glued on. In this stickers machine type, adress of manufacturer, machine serial number, model of the machine is prescribed.

REMEMBER: If safety signs have been damaged, removed, become illegible or parts have been replaced without signs, new safety signs must be applied. New Safety signs are available from your authorized dealer, distributor or factory.

8. STORAGE SAFETY & SECURITY LABELS LOCATIONS

WORKING SAFETY

- Stop the machine if it is windy or use wind guard against wind.
- Safety and warning decals, placed on the machine, give important instructions for safe work. Take them into consideration for your safety.
- Make sure you get familiar with all devices and elements for handling and with the functions before starting with the work.
- Avoid wearing loose-fitting clothes. Clothes should fit tight to the operator's body.
- Implements should be connected according to the instructions, fastened to the prescribed devices and secured.
- Never left the driving seat during driving.
- Strating devices for remote control should be secured in a way that, they can not be unintentionally released during transport or work.
- When disconnecting the machine from the tractor, place it on the flat ground.
- Never jump, sit or climb on the machine while it is connected to the tractor.
- Stopping or operating the machine must be done by the driver. No one may drive the tractor except the driver.
- Use protection for hearing and glasses while working with the machine if the tractor does not have a closed cabin.

TECHNICAL DOCUMENTS

MODELS	Machine code (Order number)	Working width (mm)	Working Depth Max. (mm)	Overall Width (mm)	Overall Length (mm)	Overall Height (mm)	Number of Flanges	Number of horizontal blades	Number of vertical blades	Weight (kg)	P.T.O. Shaft Rotations (max) (min-1)	Power Required (HP)
A-TSR 1400	20202107	1260	220	1516	850	1100	6 (5 opt.)	30	36	390	540	30-35
A-TSR 1600	20202213	1514	220	1770	850	1100	7 (6 opt.)	36	44	420	540	35-40
A-TSR 1850	20202323	1768	220	2024	850	1100	8 (7 opt.)	42	52	455	540	40-45
A-TSR 2100	20202429	2022	220	2278	850	1100	9 (8 opt.)	48	60	490	540	45-50
A-TSR 2400	20202516	2240	220	2570	900	1230	10 (9 opt.)	54	68	760	540	55-65
A-TSR 2500	20202601	2495	220	2825	900	1230	11 (10 opt.)	60	76	850	540	70-75
A-TDDSR 2100	20206330	2022		2298			9 (8 opt.)	48	60	665		60-65
A-TDDSR 2400	20206442	2240		2590	900	1230	10 (9 opt.)	54	68	785		70-75
A-TDDSR 2500	20206501	2495		2825	900	1230	11 (10 opt.)	60	76	880		75-80



Exports to 70 countries
on 5 continents.



ALPLER AGRICULTURAL MACHINERY

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