

ASSEMBLY USE AND MAINTENANCE

MK/14 MK/16

1. Warrantee

On delivery, check that the machine has not been damaged during transport and that all the attachments are present. Claims must be made in writing to the agent within 8 days of receipt.

The manufacturer warrants new machinery at the time of delivery to the original purchaser to be free from defects in material and workmanship if properly set up and operated in accordance with this Operator's Manual.

The manufacturer undertakes to repair or replace free of charge any detective part which should be returned by the purchaser (freight prepaid) and found to be detective by inspection authorized by the manufacturer during the warranty period.

This warranty will be valid for 12 (twelve) months from the delivery of goods to the original purchaser.

In case the customer is not in a position to return the defective part to the manufacturer, the manufacturer cannot be held responsible for any cost due for repair or replacement of any part of the machine, he will only supply the part(s) required for the repair and/or replacement.

The warranty is null and void when it is evident that the machine has been improperly used or repaired or however repaired without authorization.

The manufacturer undertakes no responsibility for any obligation or agreement reached by any employers, agents or dealers, which are not in compliance with the above warranty. The manufacturer cannot be held responsible for the consequent damages. This warranty substitutes any other warranty, express or implied, and any other manufacturer's obligation.

2. Technical characteristics

Type of machine		MK/14	MK/16
Number of finger wheels	n°	14	16
Number of tines for wheels	n°	40	40
Working width	m (feet)	8.7 (28' 6")	9.4 (30' 10")
Operating speed	km/h (Mph)	22.5 (14)	22.5 (14)
Minimum power required	kW (HP)	30 (40)	30 (40)
Weight	kg (Lbs)	2285 (5035)	2445 (5385)
Tyre size		205 - 75/15	205 - 75/15
Transport width	m (feet)	2.5 (8' 3")	2.5 (8' 3")
		,	

SITREX spa reserves the right to make changes or add improvements at any time without notice

3. General instructions for the operation and maintenance



Before starting off for work, be sure that the machine is correctly assembled and in good operating condition.

The front transport arms must always be attached during transport.

While the front transport arms are attached, do not operate for any reason whatsoever the hydraulic cylinders for opening the machine or lifting the rake wheels.

When the machine is in movement, make sure that the brake on the front wheels does not block wheel movement. The wheels must always pivot freely.

When in operation, do not turn around at full speed.

On particularly uneven ground, do not operate with the machine in the fully-opened position (close machine at least 3' compared to the fully-opened position). In addition, operate at a reduced speed.

If it is noticed that the machine is not operating properly (rake wheels putting too much pressure on the ground, front wheels braked, etc.) the problem must be corrected immediately to avoid causing damage to the machine.

If machine maintenance work, repairs or adjustments must be done in the field, they should be done at a spot where the ground is firm and level. Turn off the tractor and apply the parking brake. Use the proper tools and wear suitable protection (safety goggles, work gloves, etc.).

If any maintenance work, repairs or adjustments are done which require that some parts be removed and/or that screws, nuts, pins, etc. be loosened or removed, always make sure that everything is reassembled or retightened as it had been prior to making repairs or adjustments.

Follow the schedule provided for maintenance.

By following these suggestions it will be possible to keep the machine operating safely and efficiently, to the benefit of the user.

IMPORTANT

DURING EXTENDED PERIODS OF INACTIVITY IT IS NECESSARY TO CLOSE COMPLETELY THE CYLINDERS. THIS MUST BE DONE IN SUCH A WAY AS TO PROTECT THE RODS FROM WEATHER EFFECTS.

THE RODS PARTS REMAINING OUTSIDE THE CYLINDER PIPE (WHATEVER REASONS MAY BE) MUST BE CAREFULLY PROTECTED WITH A GREASE LAYER.

4. Assembly instructions



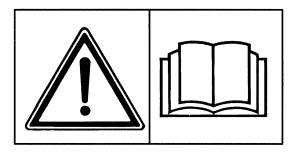
Assembly must be done carefully and accurately, for the safety of the person(s) doing the assembling and to ensure proper machine operation.

Assembly should be done on a flat, solid surface, using the proper tools and wearing suitable clothing, making sure that all people not involved in the assembly be kept at a safe distance. Assemblers must provide suitable lifting mechanisms and supports for stabilizing the partially assembled units, so as to prevent them from falling and causing damage or injury. The steps for assembly are illustrated in following. Depending on the experience of the assemblers and the tools available, it is not necessary that the instructions be followed in the exact order given here, but the safety precautions described above must always be followed carefully and scrupulously.

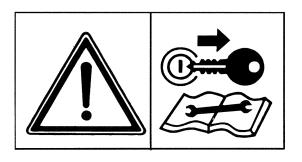
IMPORTANT

These signs and symbols give information to the operator on how to make the best use of the machine so as to prolong life, avoid damage, optimise work and, above all, to avoid injury to the operator and anyone within range of the machine.

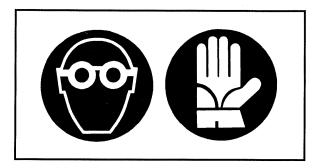
4.1 Warning signs



A) Before beginning operations, read the instruction manual carefully.



B) Before doing any maintenance or repair work, stop the machine at a suitable spot. Turn off the tractor motor, apply the brake, remove the key from the ignition and consult this manual.



C) This is a warning to use proper accident protection when carrying out maintenance and repairs

4.2 Danger signs

DANGER



Indicates an impending dangerous situation which, if not avoided, will cause death or severe personal injury.

ATTENTION



Indicates a potentially dangerous situation which, if not avoided, could cause death or severe personal injury, including dangers which are present when protection is removed.

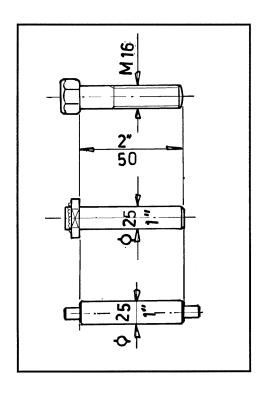
CAUTION



indicates a potentially dangerous situation which, if not avoided, can provoke less severe or minor injuries.

4.3 Technical notes

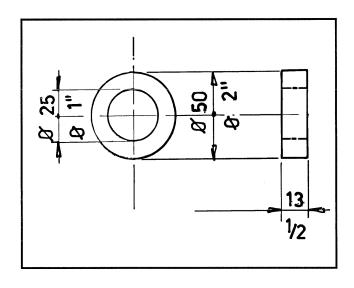
We will provide a few examples to make it easier to choose which of the various accessories to use for each step of assembly. An approximate equivalent of the metric measurements is given in inches.



1) PINS AND SCREWS

Example: a pin with a 25 mm (1") diameter and a screw with an M 16 (5/8") diameter, both 50 mm (2") long, will be listed as:

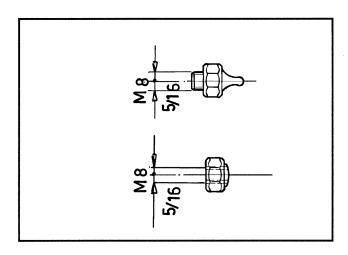
D 25 x 50 (D 1" x 2") and M 16 x 50 (D 5/8" x 2").



2) SHIMS, SPACERS, BUSHINGS AND WASHERS

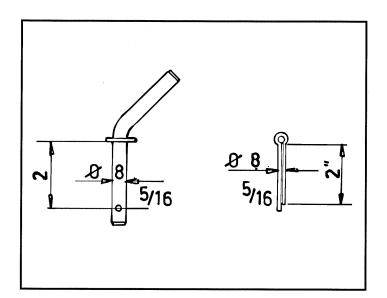
Example: a shim, spacer, bushing or washer with an inside diameter of 25 mm (1"), outside diameter of 50 mm (2") and thickness or length of 13 mm (1/2") will be listed as:

D 25 - 50 x 13 (D 1" - 2" x 1/2").



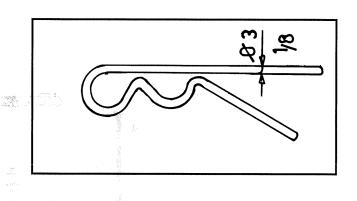
3) NUTS, GREASE NIPPLES

Example: a nut or grease nipple having a thread of M 8 (5/6") will be listed as: M 8 (5/16")



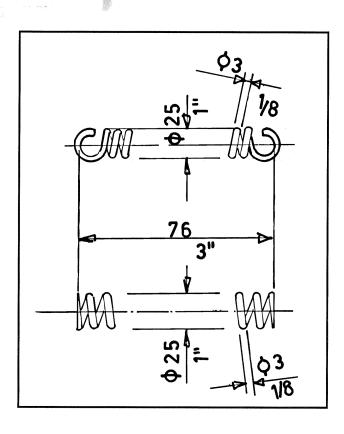
4) PINS AND SPLIT PINS

Example: a pin or split pin having a diameter of 8 mm (5/16") and a length of 50 mm (2") will be listed as: D 8 x 50 (D 5/16" x 2")



5) CLIPS

Example: a clip with a diameter of 3 mm (1/8") will be listed as: D 3 mm (1/8")



6) SPRINGS

Example: a spring with a wire diameter of 3 mm (1/8"), outside diameter of 25 mm (1") and length of 76 mm (3") will be listed as: D $3 - 50 \times 76$ (D 1/8" - 2" $\times 3$ ")

5. GENERAL MAINTENANCE INSTRUCTIONS







5.1 Repair work

Any repair work must be carried out with the machine at rest and disconnected from the tractor. Do not carry out welding without authorisation and instructions from the manufacturers.

Disconnect the machine from the tractor before any welding work in order not to damage the battery. Always use a protective mask, goggles and gloves when welding, sanding or grinding or when using a hammer or drill.

Always work on the machine out of doors. If you have to operate the machine when connected to the tractor in an enclosed area (for example when testing after repair and/or maintenance), ensure that there is sufficient ventilation so as to prevent noxious exhaust gases accumulating. In order to acquire the necessary control and to operate in safety, practise various manoeuvres by simulating those required in the workplace with the help of an experienced person.

5.2 Laying up for extended periods

At the end of the season, or when an extended period of inactivity is envisaged, it is advisable to:

- 1) clean the machine following instructions and allow it to dry;
- 2) check it carefully and replace any damaged or worn parts;
- 3) thoroughly tighten all screws and bolts;
- 4) grease the machine thoroughly and then cover it completely and lay it up in a dry place.

It is to the users advantage to carry out these operations carefully. In this way, he will have a machine in perfect condition when work is restarted.

On restarting work, repeat all the proper checks so as to be certain of working in conditions of maximum safety.

IMPORTANT

During extended periods of inactivity it is necessary to close completely the cylinders. This must be done in such a way as to protect the rods from weather effects.

The rods parts remaining outside the cylinder pipe (whatever reasons may be) must be carefully protected with a grease layer.

5.3 Maintenance direction

All cleaning, lubrication and maintenance operations must be carried out with the machine disconnected from the tractor.

In an emergency with the machine still connected to the tractor, switch off the engine, apply the parking brake, and remove the ignition key from the instrument panel.

Regular, correct maintenance and proper operation are the basic prerequisites for the long-term efficiency and safe operation of the machine.

Pay special attention to all instructions given on signs located on the machine.

All maintenance should be carried out in an area having the proper equipment readily available and in good condition. This area must always be kept clean and dry and must have enough surrounding space to facilitate operations.

Any work must be carried out by trained personnel. Contact the dealer nearest to you.

Respect the warnings and procedure for maintenance and technical assistance given in this manual.

Do not use petrol, solvents or other flammable liquids as detergents.

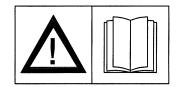
Use commercial non-flammable and non-toxic solvents, authorised by competent bodies.

Do not use compressed air or water at high pressure to clean the machine. If this is unavoidable, then wear goggles with side protection and limit the pressure as much as possible. When the work is finished, and with the machine disconnected from the tractor, inspect and check the machine completely.

THE FOLLOWING SHOULD BE NOTED IF THE MACHINE IS SCRAPPED:

The machine consists mainly of ferrous material which must be disposed of according to the regulations in force in the country concerned.

There is also a small amount of plastic which must be disposed of according to the regulations in force in the country concerned.



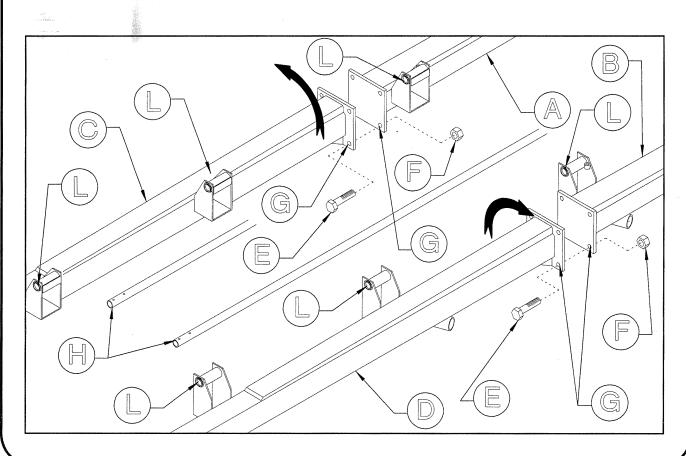
ASSEMBLY

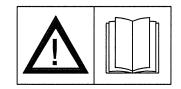


THIS NOTE APPLIES TO ALL MODELS

To obtain correct assembly, when fitting joining sections A and B by using screws E and nuts F, before tightening bolts E-F, it is necessary to turn joining sections C and D in direction shown by the arrows, as much as allowed by clearance between screw E and holes G. Then, is necessary to check that wheel lift pipes H fit in and slide freely into supports L of sections A-B-C-D. At this point is possible to tighten bolts and nut E-F.

These instructions must be followed each time sections are added on.





ASSEMBLY STEPS

In the steps for assembly we will use terms "RH parts" and "LH parts". The distinction is conventionally made looking at the machine from the rear. For the purpose of simplification, we will illustrate machine assembly for one side only: since the machine is symmetrical, each operation must be done on both sides.

ATTENTION!!!

1

Fit bushings 4 on proper seats of wheel supports 2-3.

Attach the wheel supports 2-3 (RH-LH) to the cross member assembly 1 using pins 5, washer 6 -7 and screws 8.

To identify parts 2-3 (RH-LH) see the next step.

Fit in proper seats grease nipple 9-10.

In this step, you will use:

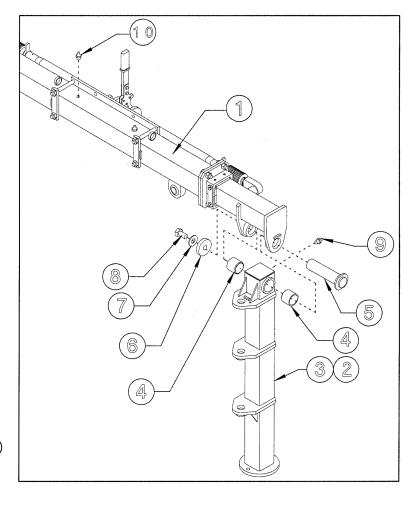
Item 4: 4 bushings dia.50-60x50 (dia 2"-2"3/8x2")

Item 5: 2 pins dia.50x190 (dia.2*x7*1/2)

Item 6: 2 washers dia.23-75x12 (dia.29/32"-3"x1/2")

Item 7: 2 grower washers dia.23-35x4 (dia.29/32"-1"3/8x5/32")

Item 8: 2 screws M22x50 (7/8"x2")
Item 9-10: 4 grease nipples M8 (5/16")



2

For correct assembly, the RH support 2 and the LH support 3 must lean in slightly towards the center of the machine.

After assembly, they must have the measurements given. At this point, before moving on to step 5, keep in mind that the assembly is unstable and therefore it is recommended that extreme caution be used.

NOTE: For the windrow width's adjustment see page 46.

ATTENTION!!!

Fit tie-rods in relevants seats of unit 1 and wheel supports 2 & 3 (RH-LH). Insert pins 5 in holes A-B. Lock pins 5 by using washers 6 and screws 7. Insert pins 8 in holes C-D. Lock pins 8 by using spring pins 9.

*NOTE: If hole of tie-rod 4 does not line-up with holes "C" of wheel supports 2 & 3, loosen nut "E" and turn tie-rod's head 4 until holes line-up.

Keep in mind the warnings of previous point.

Then, lock again nut "E".

In this step, you will use:

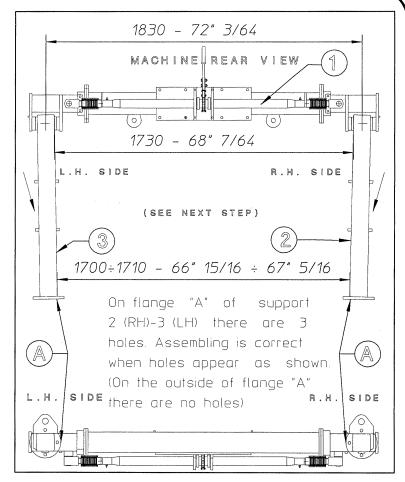
Item 5: 2 pins ø 25x70 (ø 1"x 2 3/4")

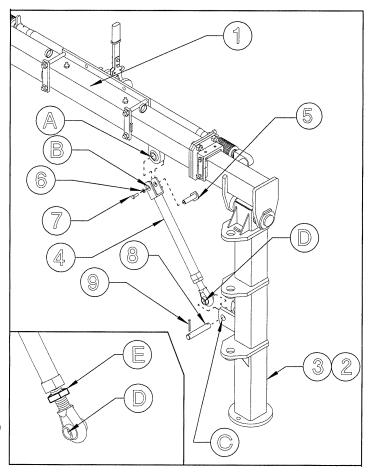
Item 6: 2 washers ø 12-40x4 (ø 1/2"-1 9/16"x 5-32")

Item 7: 2 screws M12x20 (5/32"x13/16")

Item 8: 2 pins ø30x110 (ø 1 3/16"x4 5/16")

Item 9: 4 spring pins ø 8x50 (ø 5/16"x2")





ATTENTION!!!

4

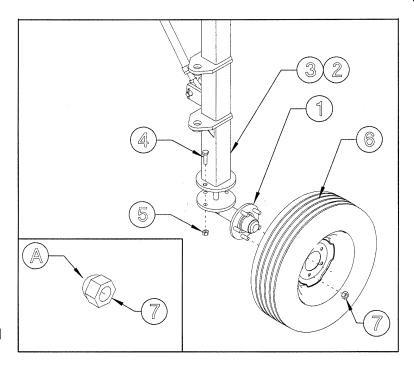
Attach wheel hubs 1 to supports 2-3 using screws 4 and nuts 5. Mount wheels 6 to hubs 1 using special nuts 7.

In this step, you will use:

Item 4: 6 screws M16 \times 50 (dia 5/8" \times 2")

Item 5: 6 nuts M16 (dia 5/8") Item 7:10 nuts M16 (dia 5/8")

NOTE: the spherical side "A" off the nut 7 must be always turned towards the wheel rim flange.



ATTENTION!!!

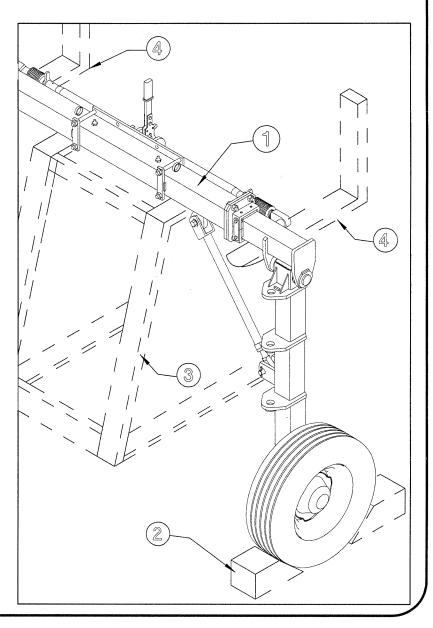
5

Assembly 1 must be fully firmly stabilized. Wheels must be chocked

with chocks 2 and a support 3 must

be placed under the cross member.

The forks 4 of a forklift may also be used to support the assembly.



⚠DANGER !!!

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Attach the rake wheel sections 3 & 4 (RH-LH) and reinforcements 10 & 11 (RH-LH) to supports 1 & 2 (RH-LH) using pins 5, washers 6 and screws 7. Attach grease nipples 8 in the proper holes.

*Note: bushing "A" of reinforcements 10 & 11 (RH-LH) must be turned to the machine outward.

In this step, you will use:
Item 5: 2 pins ø35 x 615
(ø1 3/8" x 24 7/32")
Item 6: 2 washers ø12-40 x 4
(ø1/2"-1 9/16" x 5/32")
Item 7: 2 screws M12 x 20
(15/32" x 13/16")
Item 8: 4 grease nipples M8
(5/16")



7

Fit to initial sections 1 & 2 (RH-LH) and reinforcements 3 & 4 (RH-LH) sections 5 & 6 (RH-LH) using screws and nuts 7 & 8 and screws and nut 9 & 10.

In this step, you will use:

Item $7: 8 \text{ screws M16} \times 45$

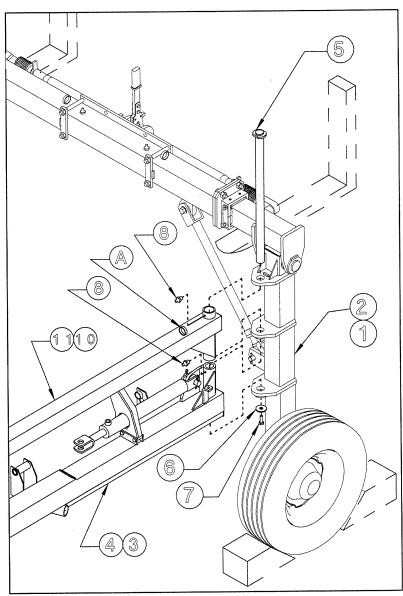
 $(5/8" \times 13/4")$

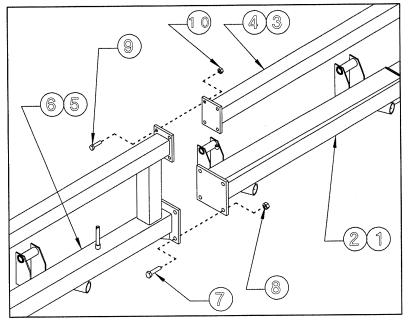
Item 8: 8 nuts M16 (5/8")

Item $9: 8 \text{ screws M14} \times 45$

 $(9/16" \times 1 3/4")$

Item 10: 8 nuts M14 (9/16")



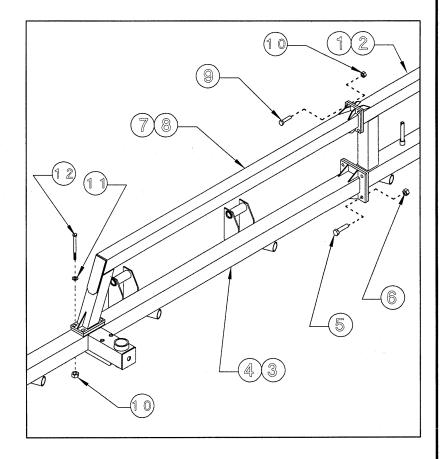


♠ DANGER !!!

8

Attach sections 3 & 4 (RH-LH) to sections 1 & 2 (RH-LH) using screws 5 and nuts 6.
Attach reinforcements 7 & 8 (RH-LH) to sections 1 & 2 (RH-LH) using screws 9 and nuts 10 and sections 3 & 4 (RH-LH) using washers 11, screws 12 and nuts 10.

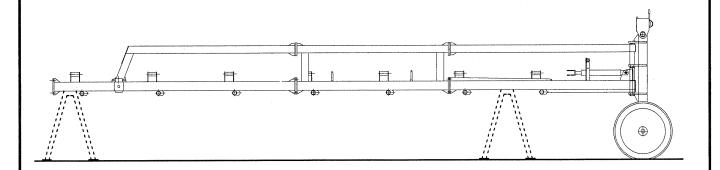
In this step, you will use:
Item 5: 8 screws M16 x 45
(5/8" x 1 3/4")
Item 8: 8 nuts M16 (5/8")
Item 9: 8 screws M14 x 45
(9/16" x 1 3/4")
Item 10:16 nuts M14 (9/16")
Item 11: 8 washers Ø15 (19/32")



Item 12: 8 screws M14 \times 160 (9/15" \times 6 3/8")

9

When reaching this point, work with great caution, as the machine is not stable.



DANGER !!!

10

Insert bushings 5 in the holes in sections 1 & 2 (RH-LH) shown in the illustration. Place the antifriction washer 4 on the pin of wheel assembly 3, and insert the wheel assembly pin in the correct holes in sections 1 & 2 (RH-LH) and secure it with the flanged bushing 6 and the spring pin 7.Attach grease nipples 8 in the correct holes of sections 1 & 2.

In this step, you will use:
Item 4: 2 washers ø50-76x5
(ø2"-3" x 3/16")
Item 5: 4 bushings ø50-60x50
(ø2"-2 3/8" x 2")
Item 7: 2 spring pins ø10x80
(ø13/32" x 3 5/32")
Item 8: 2 grease nipples M8
(5/16")

ACAUTION !!

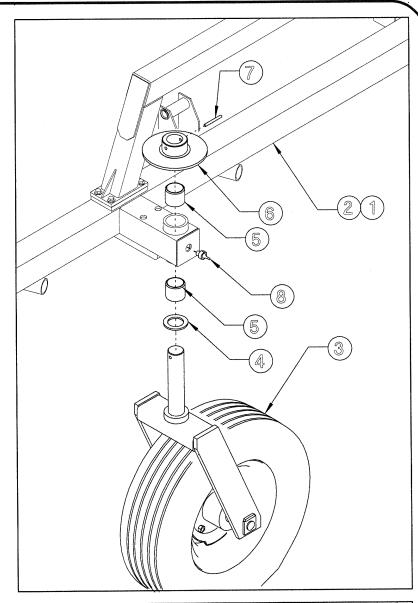
Place plate with screw 2 under flange 1 as shown in the illustration. Place upper plate 3 over screw 2, followed by spring 4 and washer 5 and tighten with nut 6.

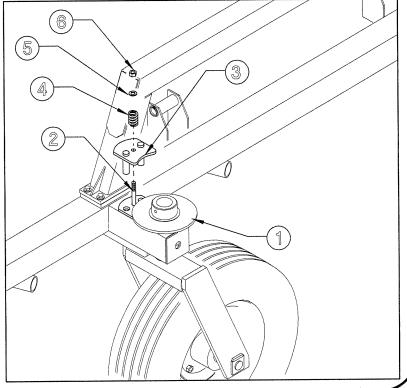
In this step, you will use:

Item 4: 2 springs ø5-30 x 45
(ø13/64"-1 3/16" x 1 25/32")

Item 5: 2 washers ø12-36 x 2.5
(ø15/32"-1 27/64" x 3/32")

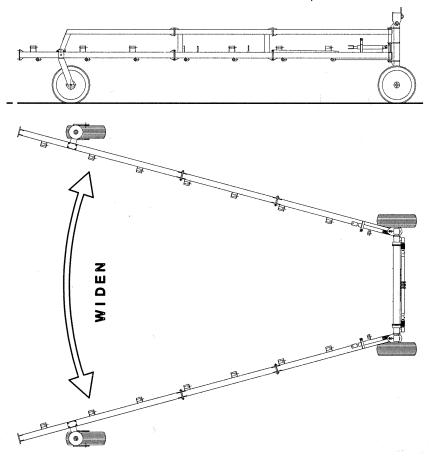
Item 6: 2 nuts M12 (15/32")





12

The machine is now resting on four wheels and is thus more stable, however, caution should still be used for the remaining assembly steps. To make assembly easier, it is recommended that the machine sections opened out.



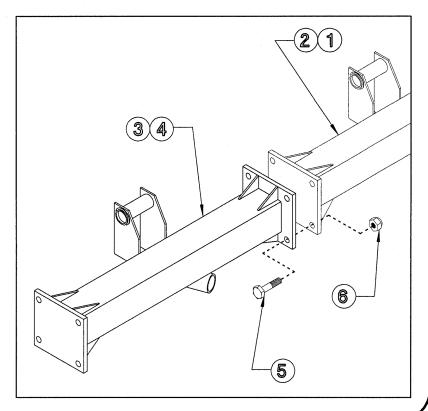
ACAUTION !!

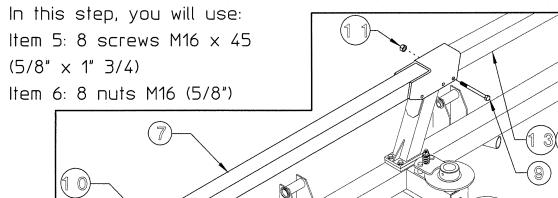
13

(MK 16 ONLY)

Attach end sections 3 & 4 (RH-LH) to sections 1 & 2 (RH-LH) using screws 5 and nut 6.

Attach reinforcements 7 to sections 3 & 4 and reinforcements 12 & 13 using counterplates 8, screws 9 & 10 and nuts 11.





Item 9: 6 screws M12 x 120 $(15/32" \times 4" 3/4)$

Item 10: 8 screws M12 x 140 $(15/32" \times 5" 1/2)$

Item 11: 14 nuts M12 (15/32")

ACAUTION !!

14

Attach supports 3 & 4 (RH -LH) to sections 1 & 2 (RH) -LH) using screws 5 and nuts 6.

Attach grease nipples 7 in the correct holes of supports 3 & 4.

Attach grease nipples 8 in the corrects holes of supports "A" and repeat the same operation for all supports of the machine.

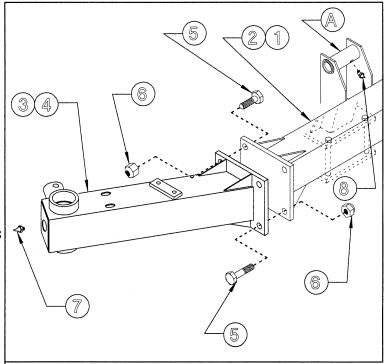
In this step, you will use:

Item 5: 8 screws M16 x 45 $(5/8" \times 1" 3/4)$

Item 6: 8 nuts M16 (5/8")

Item 7: 2 grease nipples M8

(5/16")



Item 8: 16/14 grease nipples M6x45° $(1/4" \times 45°)$

ACAUTION !!

15

Insert bushings 5 in the holes in supports 1 & 2 (RH/LH) shown in the illustration. Place the washers 4 on the pin of wheel assembly 3, and insert the wheel assembly pin in the correct holes in supports 1 & 2 and secure it with the flanged bushing 6 and the spring pin 7.

Place plate with screw 8 under flange 6 as shown in the illustration. Place upper plate 9 over screw 8, followed by by spring 10 and washer 11 and tigten with nut 6.

Place supports 13 & 14 (RH-LH) with washerd 15 and nuts 16.

Note: do not tighten the screws 16.

In this step, you will use:

Item 4: 2 washers ø50-76x5

(ø2"-3"x3/16")

Item 5: 4 bushings ø50-60x50

(ø2"-2 3/8"x2")

Item 7: 2 spring pins ø10x80

(ø13/32"x3 5/32")

Item 10: 2 springs \emptyset 5-30 x 45

 $(\emptyset 13/64"-1 3/16" \times 1 25/32")$

Item 11: 2 washers \emptyset 12-36 x 2.5

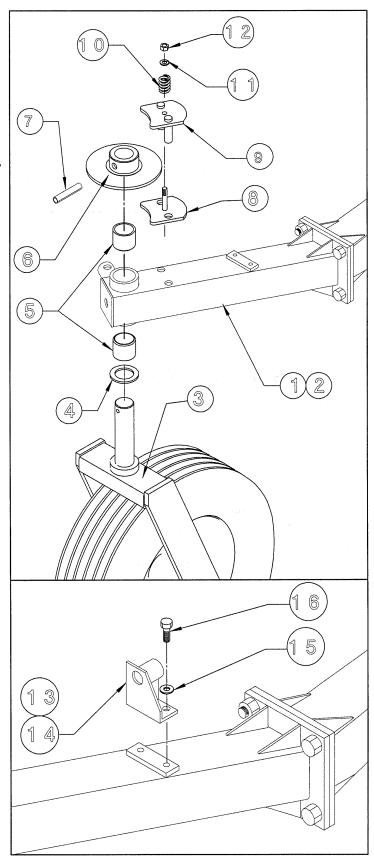
 $(\emptyset 15/32"-1"27/64"" \times 3/32")$

Item 12: 2 nuts M12 (15/32")

Item 15: 4 whasers ø10.5 (0.41")

Item 16: 4 screws M10 x 16

 $(0.39" \times 0.63")$



ADANGER !!!

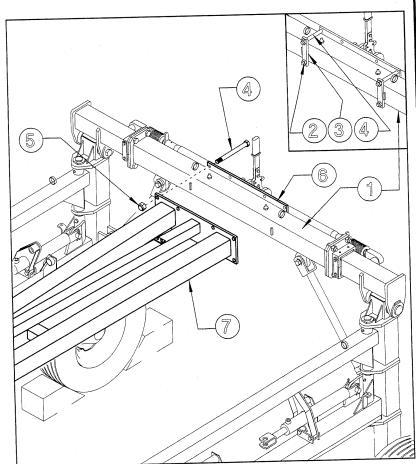
16

As a first step: need to remove from unit 1 the nuts 2 and plates 3. Nuts 2 and plates 3 belong to the and cannot be used again, while screws 4 will be used again.

This operation is to be carried out with the aid of supports and a jack or hoist of suitable capacity. Weight of part 7 kg 140 = 310 lbs.

Attach drawbar 7 to cross member assembly 1 using counterplate 6, screws 4 and nuts 5.

In this step, you will use:
Item 4: 8 screws M16 x 165
(5/8" x 6 1/2")
Item 5: 8 nuts M16 (5/8")

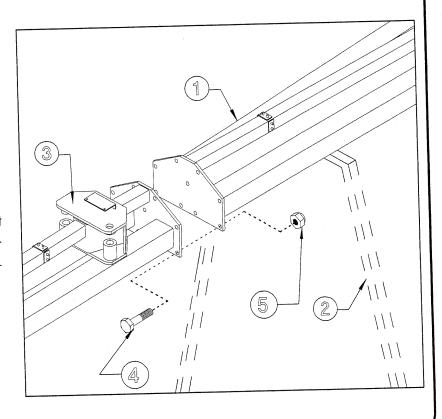


/NDANGER !!!

17

The rear drawbar section 1 must be stable, so it must be held either by a jack or hoist of suitable capacity or support 2. (weight 140 kg=310 lbs)
Attach drawbar section 3 (weight kg 100=220 lbs) to drawbar section 1 using screws 4 and nut 5.

In this step, you will use: Item 4: 9 screws M16 x 45 (dia 5/8" x 1 3/4") Item 5: 9 nuts M16 (5/8")



♠DANGER !!!

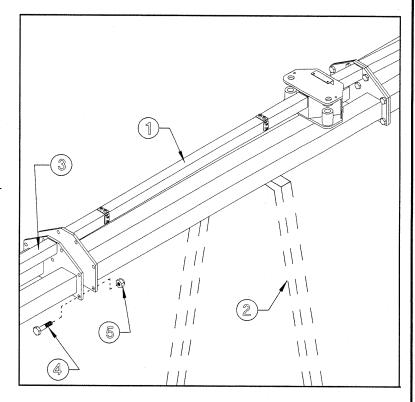
18

The drawbar section 1 must be stable, so it must be held either by a jack or support 2 (weight 240 KG/530 LBS).

Attach bar section 3 (weight 115 KG/250 LBS) to drawbar section 1 using screws 4 and nut 5.

In this step, you will use: Item 4: 9 screws M16 \times 45 (5/8" \times 1" 3/4)

Item 5: 9 nuts M16 (5/8")



ADANGER III

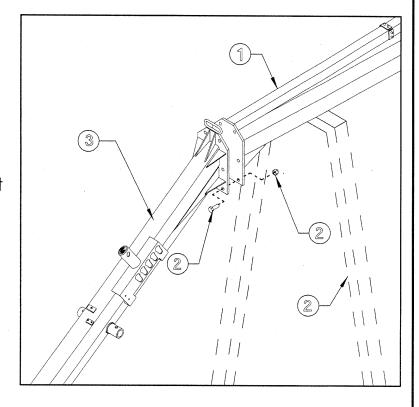
19

The drawbar section 1 must be stable, so it must be held either by a jack or support 2 (weight 355 KG/1140 LBS).

Attach bar section 3 (weight 65 KG/145 LBS) to drawbar section 1 using screws 4 and nut 5.

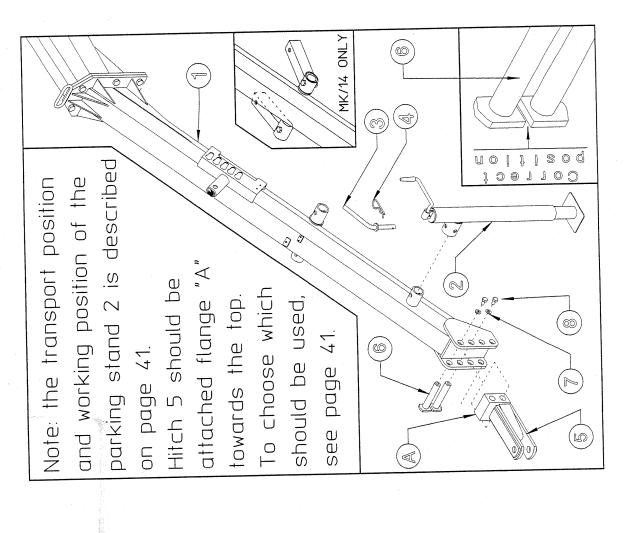
In this step, you will use: Item 4: 6 screws M16 \times 45 (5/8" \times 1" 3/4)

Item 5: 6 nuts M16 (5/8")

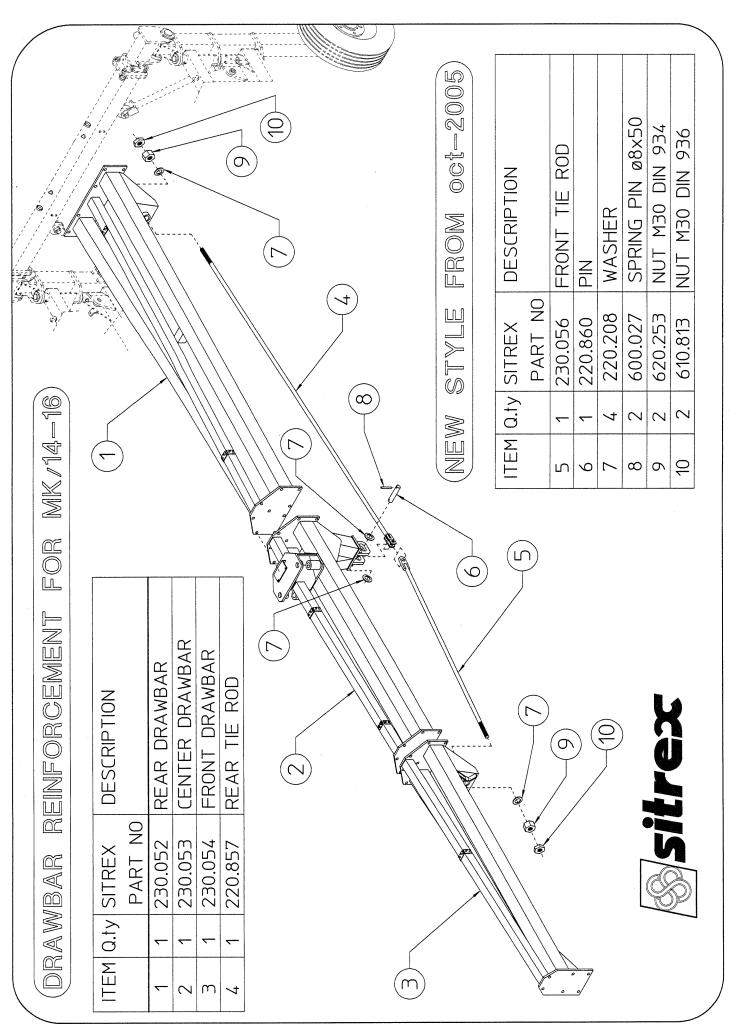


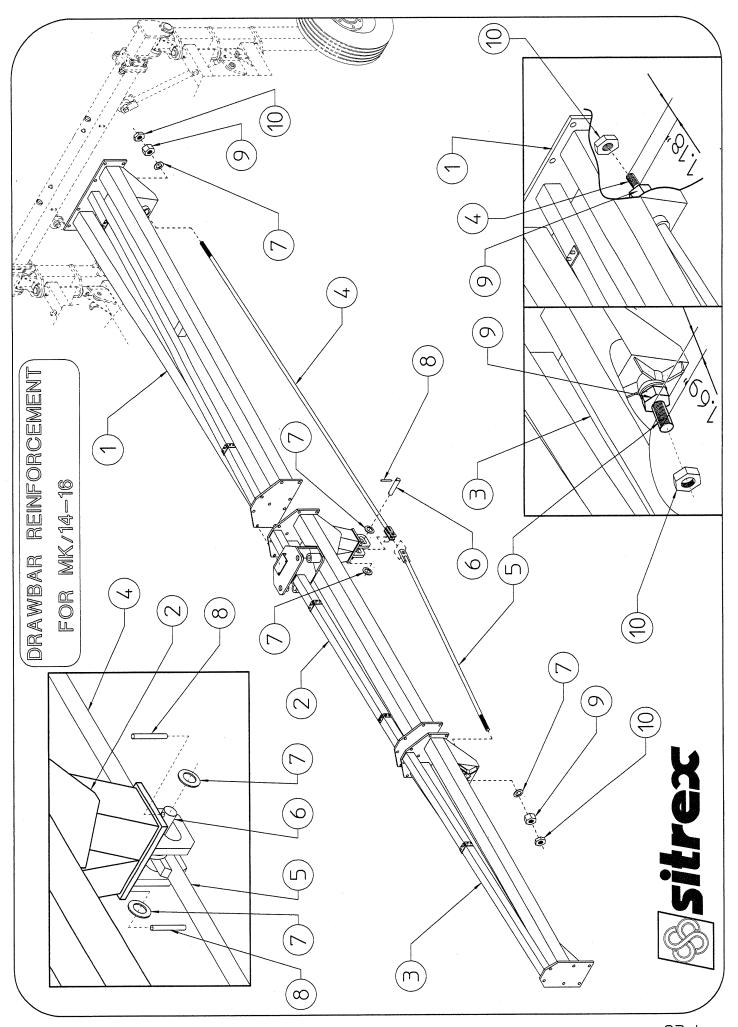
()DANGER !!!

Attach the parking stand 2 to drawbar 1, fastening it with pin 3 and clip 4. Insert hitch 5 in the end drawbar 1 and fasten with pins 6, washers 7 and nut 8. Item 3: 1 pin ø15 \times 78 (ø 19/32" \times 3 1/8") Item 4: 1 clip ø3 (ø1/8") Item 6: 2 pins ø25 \times 124 (ø1" \times 5") Item 7: 2 washers ø12-36 \times 25 Item 8: 2 screws M12 \times 20 Item 8: 2 screws M12 \times 20



 $(15/32" \times 13/16")$





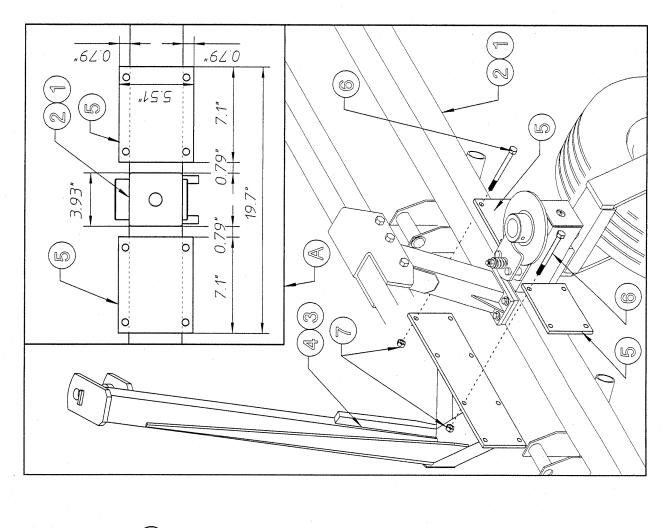
A CAUTION !!

_

Attach arms 3 & 4 (RH-LH) and counterplates 5 to sections 1 & 2 (RH-LH) fastening them with screws 6 and nuts 7. (See diagram "A" for the correct positioning of the parts).

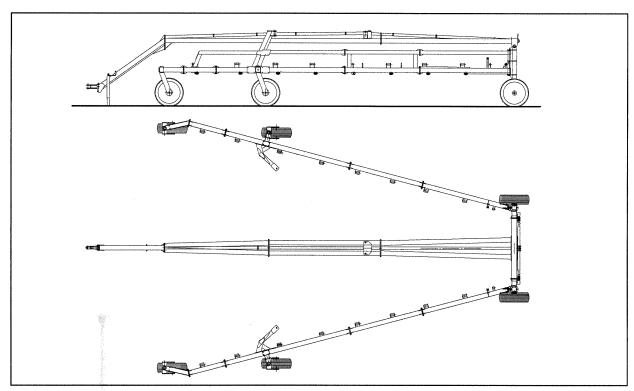
In this step, you will use: Item 6: 16 screws M12x140 (15/32" \times 5 1/2")

Item 7: 16 nuts M12 (15/32")



22

You have now reached this stage of the assembly. The machine is now stable; however, caution is still recommended for the remaining assembly step.



ACAUTION !!

23

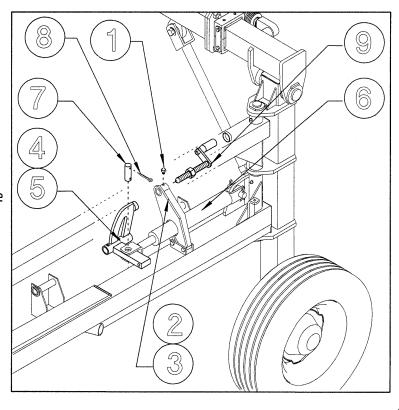
Attach grease nipples 1 to the correct holes of supports 2 & 3 (RH-LH).

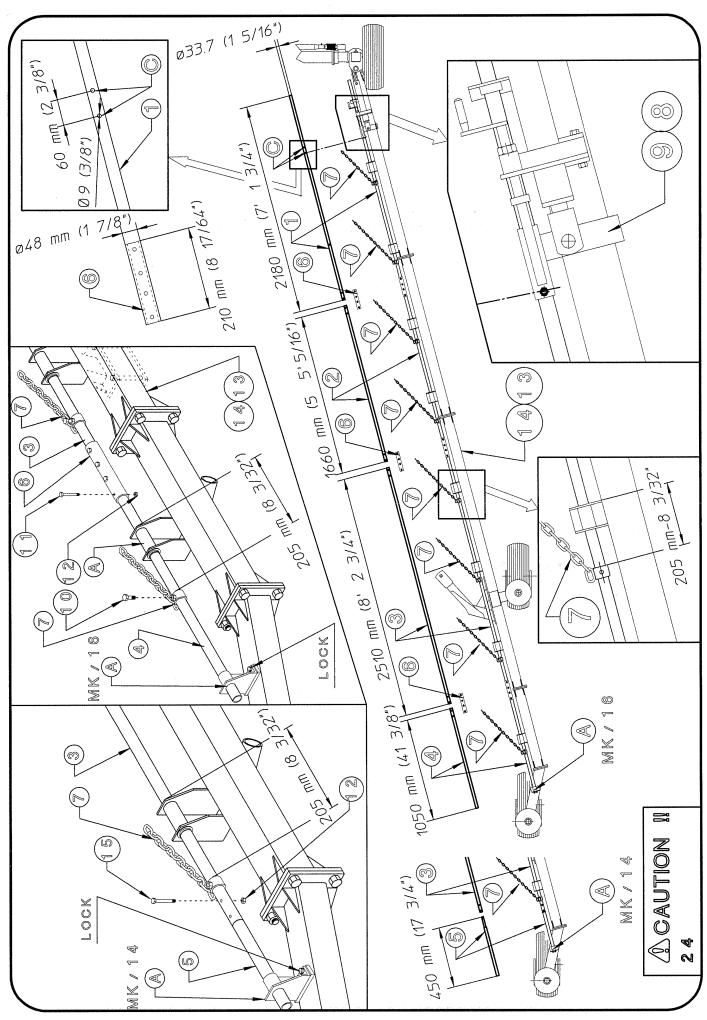
Connect attachments 4 & 5 (LH -RH) to the forks on the piston end of cylinders 6, fastening them with pins 7 and split pins 8. Insert crank 9 in the correct hole of brackets 2 & 3 (RH-LH).

In this step, you will use: Item 1: 2 grease nipples M6 (1/4")

Item 7: 2 pins $\emptyset 25 \times 70$ $(\emptyset 1'' \times 2 \ 3/4'')$

Item 8: 4 split pins ø6x35 (ø15/64" x 1 3/8")





ACAUTION !!

₹ ~

Attach rake wheels lifting pipes 1-2-3-4 for MK/16 and 1-2-3-5 for MK/14 to the sections of the RH side and LH side (13-14), beginning at point "A". At the same time, the chain attachments 7 should be placed in the positions shown, as well as the connectors 6. Pipes 1 must also pass through the correct openings of attachments 8 & 9 (RH-LH). At this point connect attachments 8 & 9 to spots "C" on pipes 1 using screws 11 and nuts 12. Connect pipes 1-2 and 2-3 and 3-4 (for MK/16) and 1-2 and 2-3 and 3-5 (for MK/14) using connectors 6, screws 11-15 and nuts 12. Fasten in the positions shown the chains attachments 7 using screws 10.

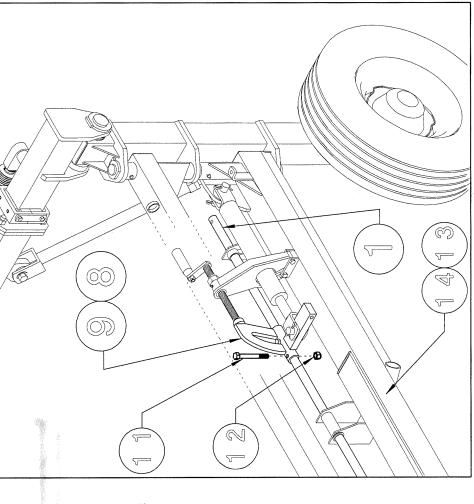
In this step, you will use:

Item 10: 16/14 screws M10x25 (25/64" x 1")

Hem 11: 28/20 screws M8 $\times 60$ (5/16" \times 2 3/8")

Item 12: 28/22 nuts M8 (5/16")

Item 15: 2 screws M8x45 (5/16" \times 1 3/4") (MK/14 only)



A CAUTION !!

⊗ı Ø First of all place stay bolts 1 inside springs 2.

Attach spring 2 with stay bolt 1 into correct hole "A" of the sections 3 & 4 (RH-LH) and attachments 5 & 6 (RH-LH) as shown, fastening the spring-bolt assembly in place with nuts 7.

Fasten stay bolt 1 with nuts 7 so that they extend 25 mm (1") from attachments 5 & 6.

Insert pin 8 into correct hole "B" of the sections 3 & 4 and fasten with clip 9.

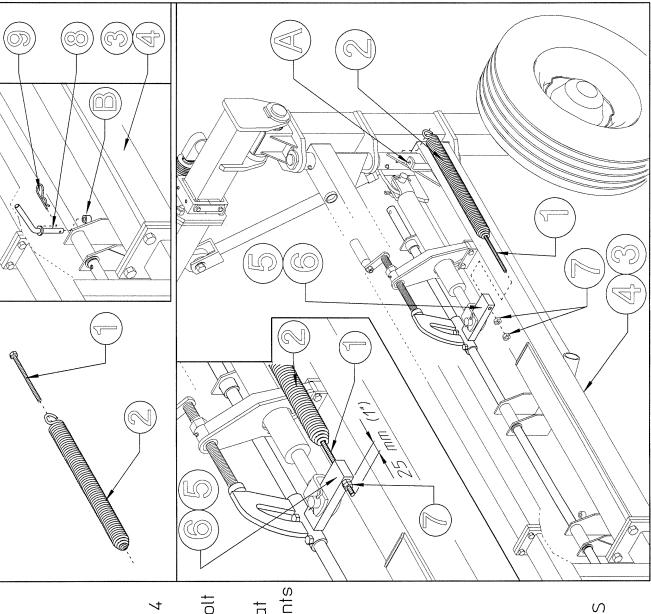
In this step, you will use:

Item 7: 4 nuts M10 (25/64")

 $(a25/64" \times 2 5/32")$

Item 9: 2 clips ø3 (ø1/8")

NOTE: FOR CORRECT SETTING OF PINS 8 DURING WORKING AND TRANSPORT POSITIONS SEE PAGES 42 AND 45.



() CAUTION !!

<u>(0</u>

Attach bushings 1 and grease nipples 2 to rake wheel sections 3 & 4 (RH-LH) as shown.

Attach rake arms 5 & 6 (RH-LH) to correct seats of the sections 3 & 4 and fasten with washers 7 and spring pins 8.

Mount rake wheels 9 & 10 (RH-LH) to rake wheel arms 5 & 6 and fasten with screws 11, grower washers 12 and nuts 13.

In this step, you will use:

Item 1: 32/28 bushings ø35-42x26 (ø1 3/8"-1 11/16" x 1") Item 2: 16/14 grease nipples $M6x45^{\circ}$ (15/64" \times 45°)

Item 7: 16/14 washers ø35-50x5

 $(a1 3/8"-2" \times 3/16")$

Item 8: 16/14 spring pins ø8x50

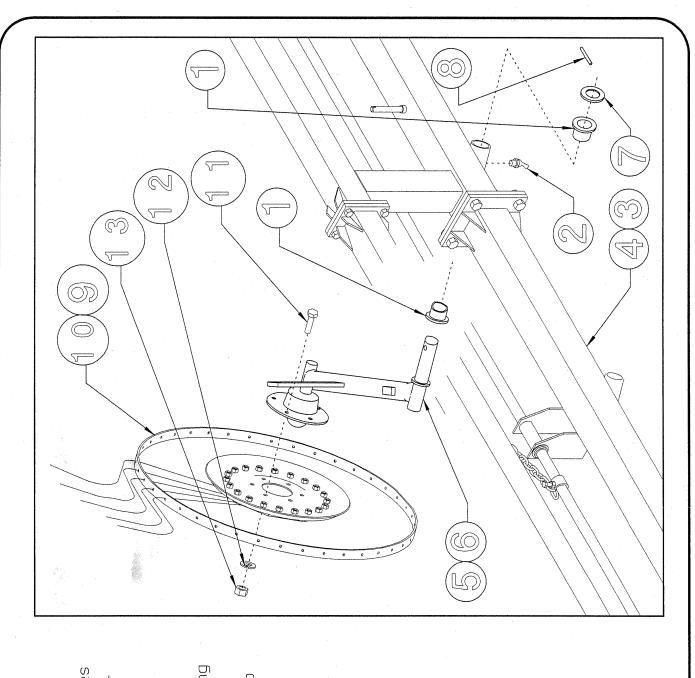
 $(5/16" \times 2")$ Item 11: 96/84 screws M10x25

 $(25/64" \times 1")$

Item 12: 96/84 grower ø10.5-17x2.5

 $(027/64"-11/16" \times 3/16")$

Item 13: 96/84 nuts M10 (25/64")



MCAUTION !!

© ⊗

The spring hook "X" is more closed than spring hook "y".

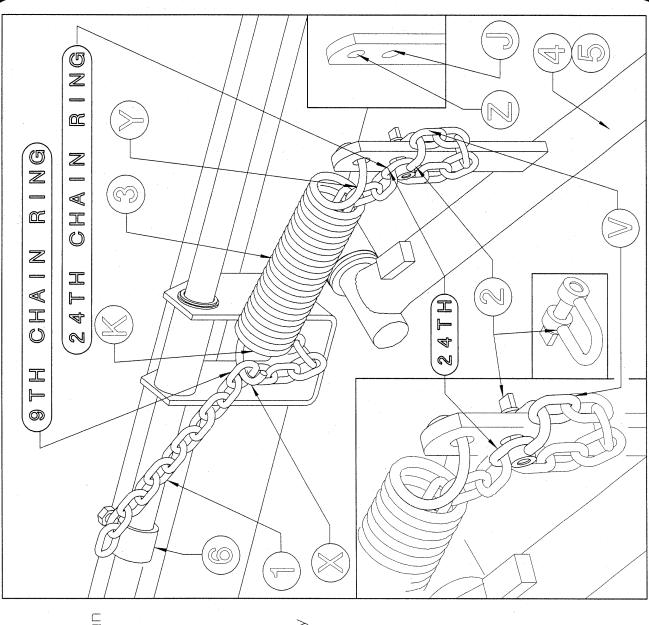
Insert end "V" of the chain attachment bushing 1 in part "K" of the spring 3, passing it out through the other side. Hook the 9th link of chain 1 on hook "X" of spring 3.

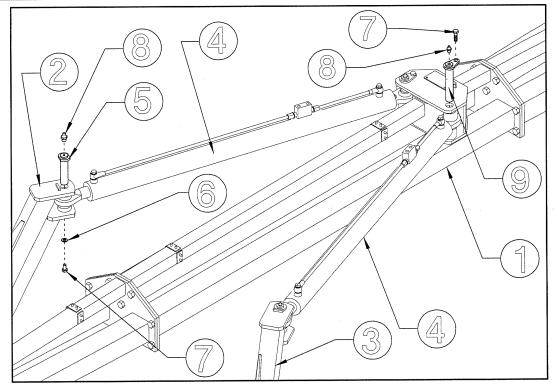
Hook the link "V" and the 24th link of chain 1 (6th from the end) on fork assy 2 and then link it into hole "J" of arms 4 & 5 (RH-LH).

Hook "Y" of spring 3 into hole "Z"

NOTE: That given before is a standard regolation of the chain 1. In picture is also indicated the better position of chain bushing 6 round pipe axis.

In this step, you will use: Item 3: 20/18 spings ø7-56x276 (ø9/32"-2 13/64" x 10 7/8") Item 2: 20/18 fork assy M8 (5/16")





28

ACAUTION !!

Fit cylinders 4 into the correct places on drawbar 1 and fixed arms 2 & 3 (RH-LH). Fasten cylinders 4 to drawbar 1 with pins 9 and screws 7. Attach grease nipples 8 to pins 9. Fasten cylinders 4 to fixed arms 2 & 3 (RH-LH) with pins 5, wahers 6 and screws 7. Attach grease nipples 8 to pins 5.

In this step, you will use:
Item 5: 2 pins ø30 x 122
(ø1 3/16" x 4 13/16")
Item 6: 2 washers ø12-40x4
(ø15/32" - 1 9/16" x 5/32")

Item 7: 4 screws M12 x 20

 $(15/32" \times 13/16")$

Item 8: 4 grease nipples M8 (15/16")

Item 9: 2 pins $\emptyset 30 \times 162$

 $(\emptyset 1 \ 3/16" \times 6 \ 3/8")$

29

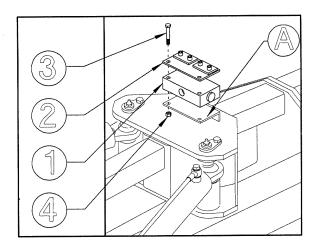
Fit the flow divider 1 and the hose collar plate 2 to support "A" on the drawbar. Fasten in place with screws 3 and nuts 4.

In this step, you will use:

Item 3: 2 screws M6x60

 $(15/64" \times 2 3/8")$

Item 6: 2 nuts M6 (15/64")



 $\mathbb{N} \odot \mathbb{C}$: For hydraulic rear opening kit assembling see page 47

ACAUTION !!

30

Attach the eye hose 1 to hole "A" of the cylinder valve and fasten it with washers 2 and fitting 3. Attach washer 2 and nipple 5 to the rear of flow

divider 4. Connect the curved end of hose 1 to nipple 5.

In this step, you will use:

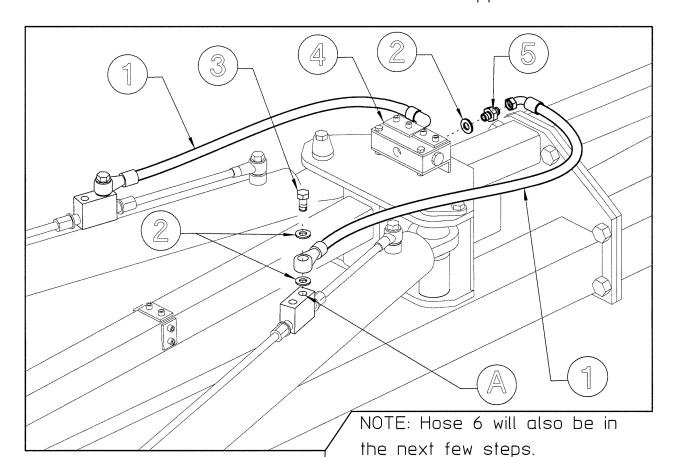
Item 1: 2 hoses (3/8"),lenght

 $720 (3/8" \times 2'4 21/64")$

Item 2: 6 copper washers 3/8"

Item 3: 2 screws 3/8"

Item 5: 2 nipples 3/8" - 3/8"



ACAUTION !!

3 1

Attach washers 2 and nipples 3 to cylinders 1. Connect the curved end of hoses 4 to nipples 3. Pass hoses 4 through rings "A"-"B"-"C" and connect to "T" connector 5 at the center of the machine. Connect hose 6 to "T" connector 5 and secure in place with collars 7 and screws 8

In this step, you will use:

Item 2: 2 copper washers 3/8"

Item 3: 2 nipples 3/8" - 3/8"

Item 4: 2 hoses (3/8") lenght

2060 (3/8" x 6' 9")

Item 5: 1 male T connector 3/8"

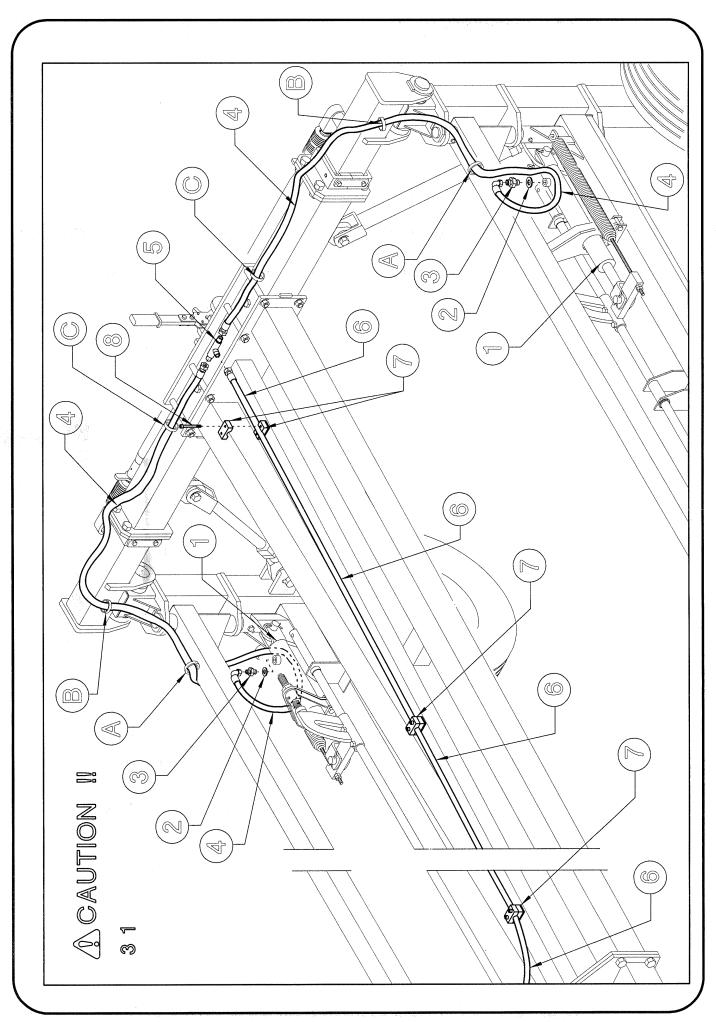
Item 6: 1 hoses (3/8") lenght

6000 (3/8"× 19' 8 1/16")

Item 7: 6 hose collars ø18 (ø45/64")

Item 8: 6 hexagon socket head cap

screws M6 x 25 (15/64" x 1")



32

Continue to secure hose 6 using collars 1 and screws 2.

Attach washer 3 and nipple 4 to hole "A" in cylinder valve.

Connect the curved end of hose 5 to nipple 4.

Join hoses 5 to T connector 7 at the center of the machine.

Hose 6 will also be in the next few steps.

In this step, you will use:

Item 1: 4 hose collars Ø18 (Ø45/64")

Item 2: 4 hexagon socket head cap screws M6x25 (15/64"x 1")

Item 3: 2 copper washers 3/8"

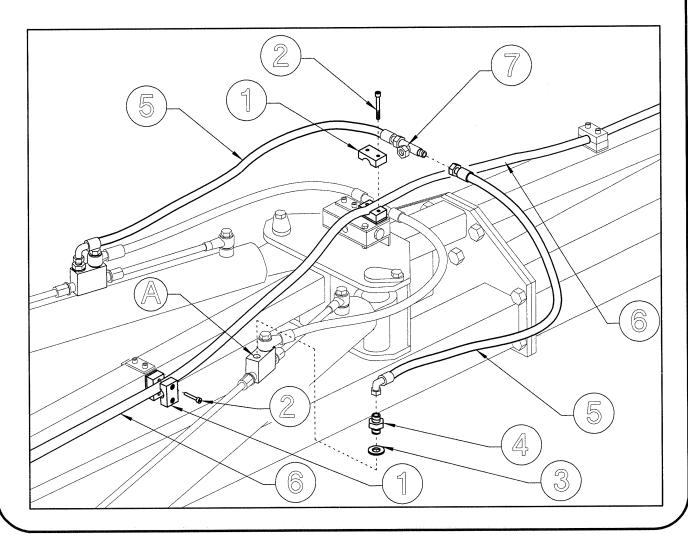
Item 4: 2 nipples 3/8" - 3/8"

Item 5: 2 hoses (3/8") lenght

 $750 (3/8" \times 2' 5" 1/2)$

Item 6: see preceding step.

Item 7: 1 male-female "T" connector 3/8".



33

Screw nipple 1 into hole "A" of the T connector. Screw hose 2 onto nipple 1. Secure hose 2 in place with collars 4 and screws 5. Screw nipple 1 and washer 7 into hole "B" of the flow divider. Screw hose 3 onto nipple 1 and secure in place with collars 4 and screws 5.

NOTE: Hoses 2-3 will also be in the next few step.

In this step, you will use:

Item 1: 2 nipples 3/8" - 1/2"

Item 2: 1 hose (1/2") lenght

7900 (1/2" × 25' 10 3/4")

Item 3: 1 hose (1/2") lenght

7750 $(1/2" \times 25' 4 3/4")$

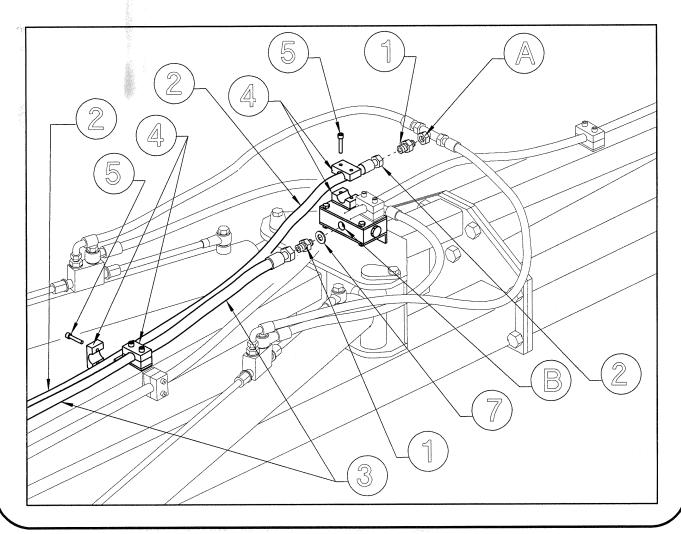
Item 4: 6 hose collars ø22

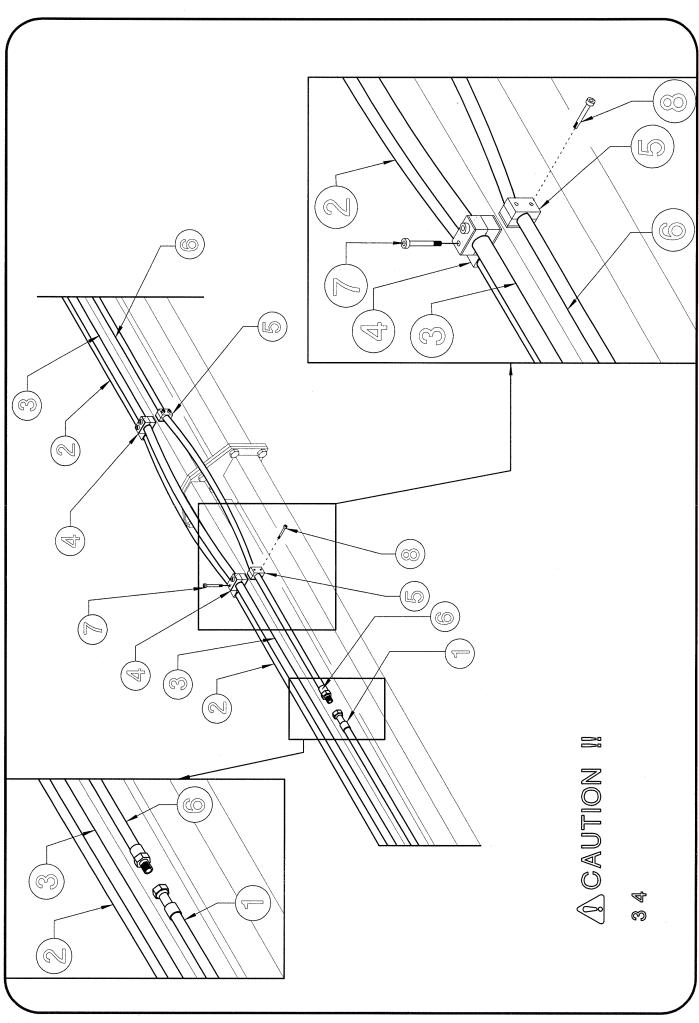
(07/8")

Item 5: 6 hexagon socket head cap screws M6 x 30

 $(15/64" \times 1 3/16")$

Item 7: 1 copper washer 3/8"





() CAUTION !!

& **₹**

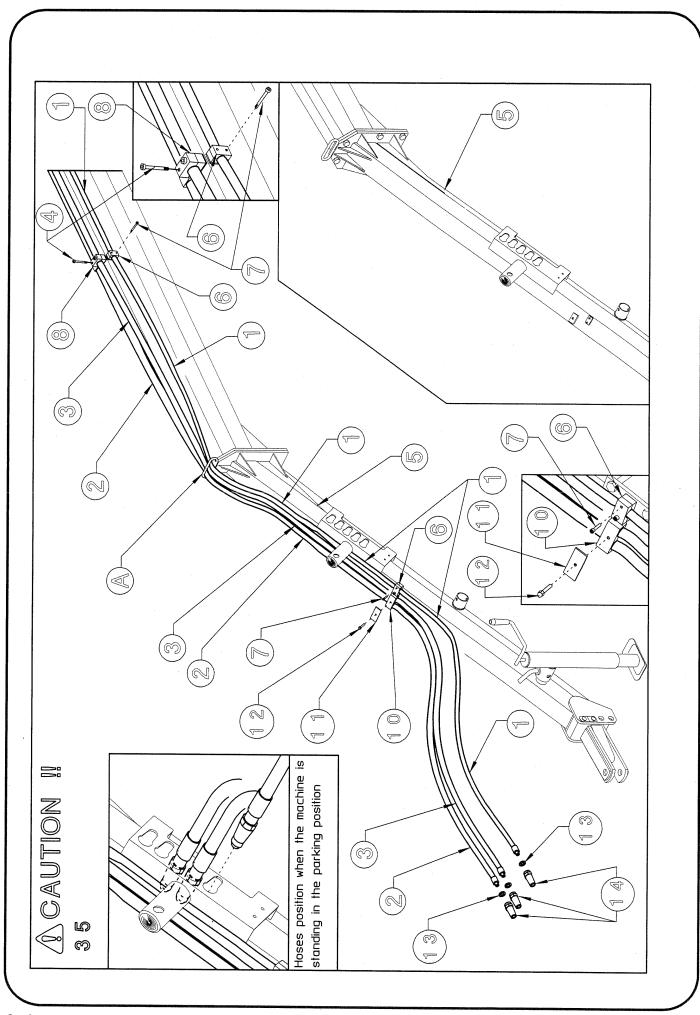
Continue to secure hose 6 using collars 5 and screws 8.

Continue to secure hoses 2-3 using collars 4 and screws 7.

Connect the hose 6 with the hose 1.

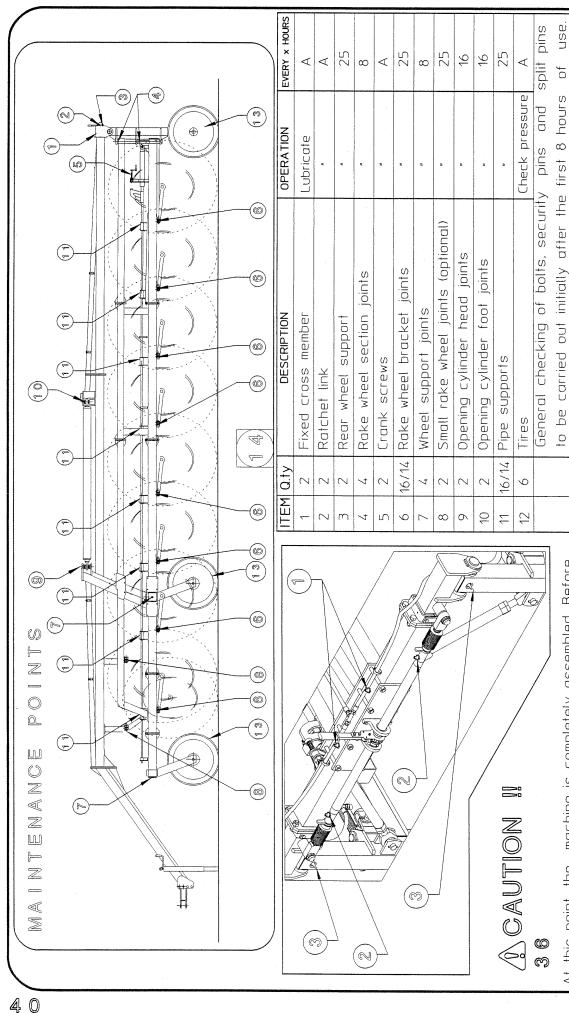
NOTE: Hoses 1-2-3 will also be in the next few steps.

(ø45/64") (\@//\@) cap cap4960 8 hexagon socket head Item 8: 4 hexagon socket head screws M6x30 (15/64"x 1 3/16")lenght 8 hose collars ø22 4 hose collars ø18 step see preceding step step, you will use: see preceding step screws M6x25 (15/64"x 1") 1: 1 hose (3/8") see preceding × 16' 3") .. 9 n this 3/8" t em t em t em t em t em t em t em



ا ال Pass hoses 1–2–3 through loop "A" on drawbar 5.
Secure hose 1 in the correct places with hose collars 6 and screws 7. Secure hoses 2–3 in the correct places with hose collars 8, screw 4, double hose collars 10, plate 11 and screws 12. Attach washers 13 and quick-release couplings 14 to the end of hoses 1–2–3.

Item 13: 3 copper washers 1/2" Item 10: 2 double hose col-Item 8: 4 hose collars ø22 Item 2: see preceding step Item 3: see preceding step Item 6:4 hose collars ø18 Item 12: 2 screws M8 \times 45 Item 1: see preceding step head cap screws M6 \times 25 (15/64" \times 1") Item 7:4 hexagon socket Item 4: 4 hexagon socket head cap screws M6 \times 30 In this step, you will use: Item 14: 3 quick-release $(15/64" \times 1 3/16").$ lars ø22 (ø7/8") $(5/16" \times 1 3/4")$ coupling 1/2" (ø15/64") (@2//8")



maintenance program, to be carried out in its entirety the first lime, and subsequently according to the schedule as shown. At this point, the machine is completely assembled. Before testing for operation, it is necessary to tubricate and check the movement of all parts. This diagram gives the

Subsequently every 50 hours and whenever the machine

extended periods.

s laid up for

9

USED

 $\overline{\sim}$

PART

出

TIME

EVERY

⋖

GENERAL INSTRUCTIONS FOR USE

⚠ DANGER III

3 7

To connect the machine to the tractor, first it is necessary to raise or lower parking stand 1 so that drawbar 2 is parallel to the ground. Back the tractor up to the machine and look to see if hitch 3 is aligned with tractor hitch 4. If hitch 3 is much higher or lower than tractor hitch 4, it is necessary to change the position of hitch 3 by choosing the

A CAUTION !!

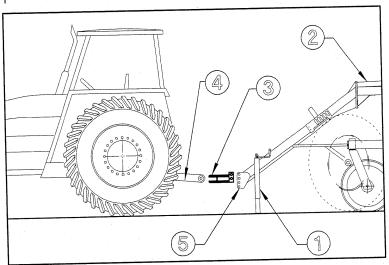
38

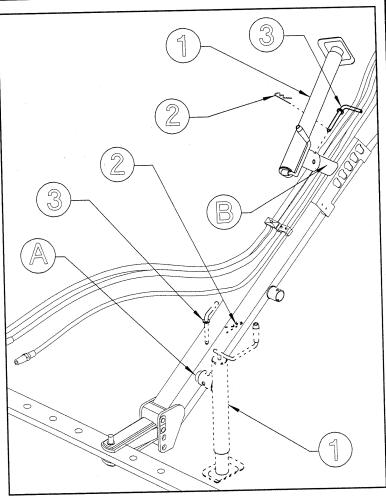
During transport and working the parking stand 1 must be shifted from position "A" to position "B".

This is done by removing clip 2 and pin 3 an moving stand 1 out of the parking position.

Fasten parking stand 1 into the transport position using pin 3 and clip 2. holes in plate 5 which give the best alignment.

At tis point connect hitch 3 to tractor hitch 4 using a suitable pin.





DANGER !!!

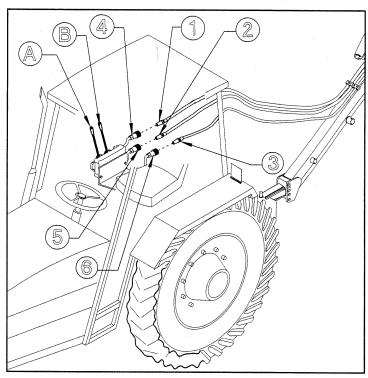
39

At this point quick-release couplings of hoses 1-2-3 should be attached to the relative tractor couplings 4-5-6. The movements of the machine are now controlled by operating levers A-B.

Hoses 1-2, connected to tractor couplings 4-5, control the cylinders for opening the machine. Hose 3, connected to tractor coupling 6, controls the cylinders for lifting the rake wheel.

It is recommended that all movements be repeated a few times to eliminate air from the system.

The machine is now ready for operation.

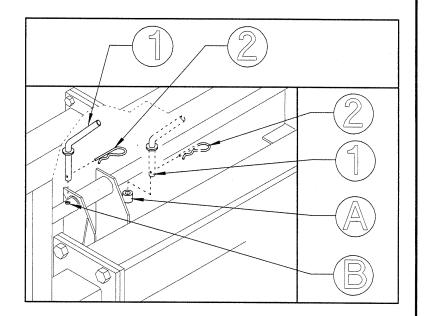


A CAUTION !!

40

During transport it is necessary to move pin 1 and clip 2 from position "A" to position "B".

This removes the load from the rake wheel lifting cylinders.



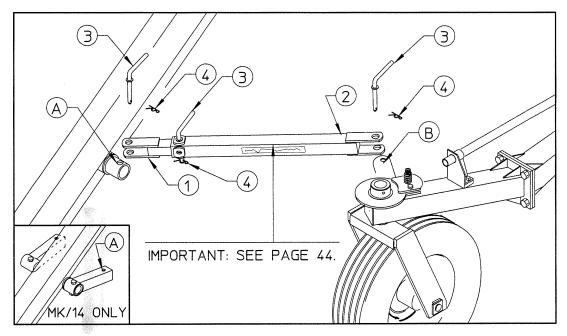


⚠ DANGER !!!

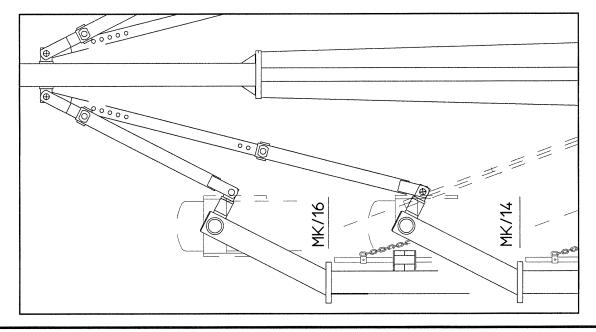
41

At this point it is necessary to attach the transport arms Insert arm 1 in arm 2 and lock in place with pin 3 and clip 4. The transport arm assembly is then attached by placing the fork of arm 1 on attachment A of the drawbar and the fork of arm 2 on the wheel support. Fasten with pins 3 and clips 4.

In this step, you will use: Item 3: 6 pins \emptyset 15 \times 87 (ø19/32"x 3 27/64") Item 4: 6 clips ø3 (ø1/8")



This is the assembly diagram for the MK16 and MK14. The row of holes on the arms is for when the rear axle is widened. Under no circumstances should the cylinders be operated while the transport arms are attached. The machine is now to be transported to the work site.



GENERAL INSTRUCTIONS FOR FIELD USE

CAUTION II

43

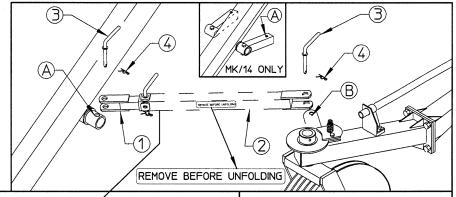
The first thing to be done in the field is to remove transport arm 1-2, replacing pins 3 in holes A-B and fastening them with clips 4. The transport arm 1-2 assemblies are to be placed over pins C-D on

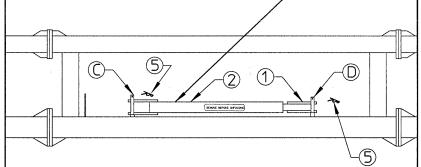
the rake wheel sections as shown. Fasten the transport arm to pins C-D with clips 5.

In this step, you will use: Item 5: 4 clips d.3 (1/8")

IMPORTANT I

BEFORE STARTING RAKING
OPERATION MAKE SURE
THAT THE TRANSPORT
LOCK ARMS HAVE BEEN
REMOVED FROM THE
TRANSPORT POSITION
AND SET IN WORKING
POSITION.





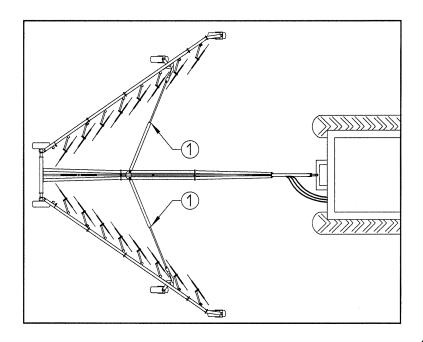
TRANSPORT LOCK ARMS
CANNOT BE USED TO
LOCK ONE RAKING WING,
R.H. OR LIH IN ORDER
TO WORK ON ONE SIDE
ONLY BECAUSE THIS IS
NOT ALLOWED.

CAUTION II

44

By operating the opening cylinders 1, the machine is opened to the fully open position.

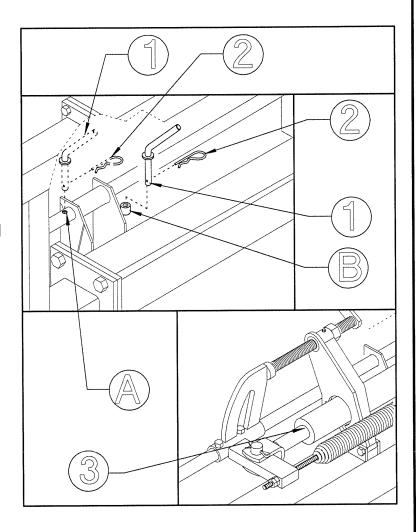
NOTE: If work must be done on particularly uneven ground, do not operate in the fully open position. Open the machine so that it is at 3' narrower than the fully opened position.



A CAUTION !! 45 IMPORTANT !

Before starting to work it is necessary to move pin 1 and clip 2 from position "A" to position "B".

Operate cylinders 3 to lower the rake wheels.

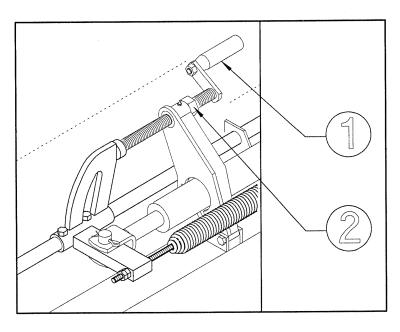


A CAUTION !!

46

Adjust rake wheel pressure on the ground by turning crank 1.

Normally the rake tines should brush the ground. When properly adjusted, tighten nut 2 to lock the screw of lever 1 in place.



IMPORTANT

WINDROWS FROM APPROXIMATELY STARTS AT 72' REAR OPENING TO A MAXIMUM A MAXIMUM OF to the type of and vary due NOTE : These measures are of the forage THIS ALLOWS 3' AND 6" TO whether it is approximate OF 88" AND TO OBTAIN 5' AND 6".

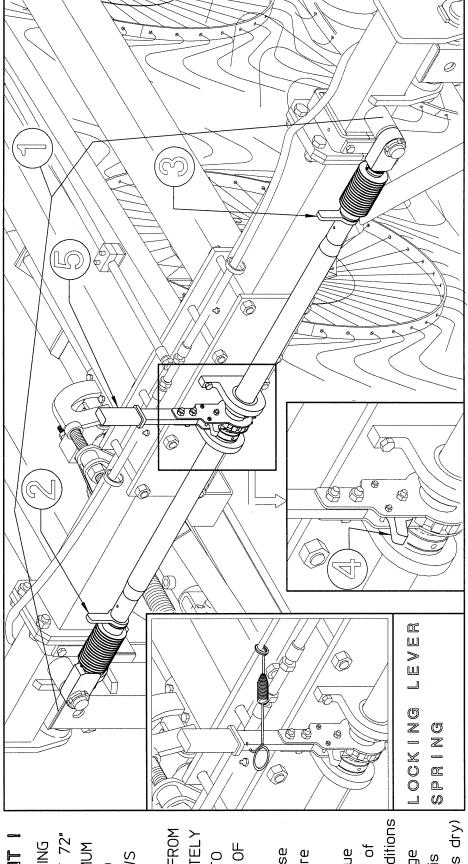
forage, conditions more or less dry) and the type of ground.

() CAUTION

47 The windrow width's adjustment is done by using ratchet link 1.

acting on lever 5 you can adjust obtain the widening or tightening turn as needed the hook 4 to To do that, release, first of of windrow. A this point, by all, the locks 2 & 3, then,

as needed and then re-lock the ratchet link 1 into the new position with locks 2 & 3. IMPORTANTE: This operation must be done on a flat ground.



HYDRAULIC REAR OPENING KIT ASSEMBLING

1

Attach the eye hose 1 to hole "A" of the cylinder valve and fasten it with washers 2 and fitting 3. Attach washer 2 and nipple 5 to the rear of flow

In this step, you will use:

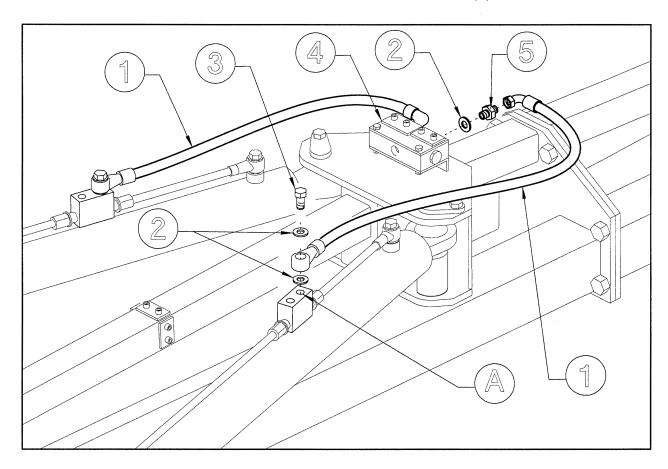
Item 1: 2 hoses (3/8"),lenght

720 (3/8" × 2'4 21/64")

Item 2: 6 copper washers 3/8"

Item 3: 2 screws 3/8"

Item 5: 2 nipples 3/8" - 3/8"



2

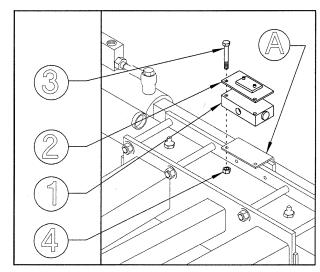
Fit the flow divider 1 and the hose collar plate 2 to support "A" on the drawbar. Fasten in place with screws 3 and nuts 4.

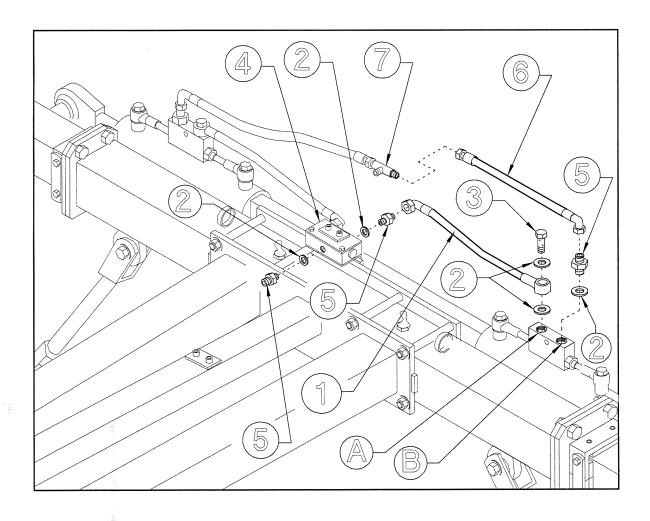
In this step, you will use:

Item 3: 2 screws M6x60

 $(15/64" \times 2 3/8")$

Item 6: 2 nuts M6 (15/64")





3

Attach the eye hose 1 to hole "A" of the cylinder valve and fasten it with washers 2 and fitting 3. Attach washer 2 and nipple 5 to the rear of flow divider 4. Connect the curved end of hose 1 to nipple 5. Attach washer 2 and nipple 5 to hole "B" in cylinder valve. Connect the curved end of hose 6 to nipple 5.

Join hoses 6 to T connector 7 at the center of the machine.

Attach washer 2 and nipple 5 to the front of flow divider 4.

In this step, you will use:

Item 1: 2 hoses (3/8"),lenght

440 (3/8" × 17 3/8")

Item 2: 9 copper washers 3/8"

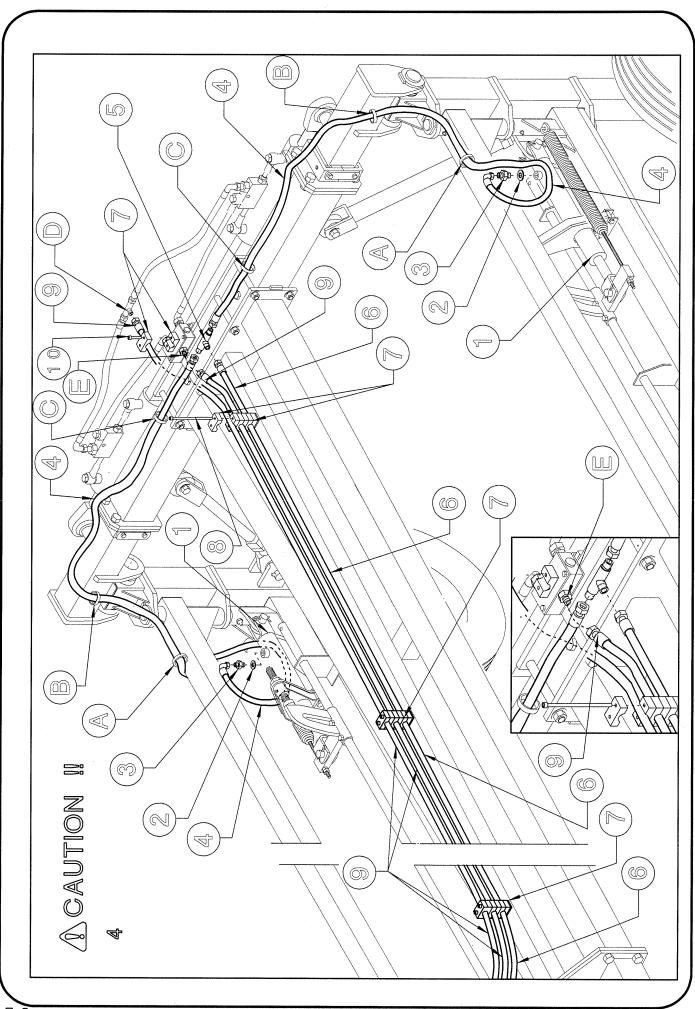
Item 3: 2 screws 3/8"

Item 5: 5 nipples 3/8" - 3/8"

Item 6: 2 hoses (3/8") lenght

480 (3/8" × 18 7/8")

Item 7: 1 male -female "T" connector 3/8"



₹ T Attach washers 2 and nipples 3 to cylinders 1. Connect the curved end of hoses 4 to nipples 3. Pass hoses 4 through rings "A"-"B"-"C" and connect to "T" connector 5 at the center of the machine.

Connect the hoses 6 to "T" connector 5.

The hoses 9 ar two. Connect one of these to nipple "E"; connect the other hose 9 to "T" connector "D". Secure hoses 9-6 in the correct places with hose collars 7 and

screws 8 and 10. NOTE: Hoses 6–9 will also be in the next few steps.

In this step, you will use:

Item 2:2 copper washers 3/8"

Item 3:2 nipples 3/8" - 3/8"

Item 4: 2 hoses (3/8") lenght

2060 (3/8" × 6' 9")

Item 5:1 male T connector 3/8"

Item 6: 1 hoses (3/8") lenght

6000 (3/8" × 19' 8 1/16") Item 7:20 hose collars dia 18

Item 7:20 hose collars dia (45/64")

Item 8: 6 hexagon socket head cap screws M6 \times 90 (15/64" \times 3 35/64")

Item 9: 2 hoses (3/8") lenght 11200 $(3/8" \times 36' \ 8 \ 3/4")$

Item 10: 2 hexagon socket head cap screws M6 \times 25 (15/64" \times 1")

5

Continue to secure hoses 6-9 using collars 1 and screws 2-3.

NOTE: At point "A" lock hose of only. To avoid problems due to interfering with cylinder "B", hoses 9 will be re-locked afterwards.

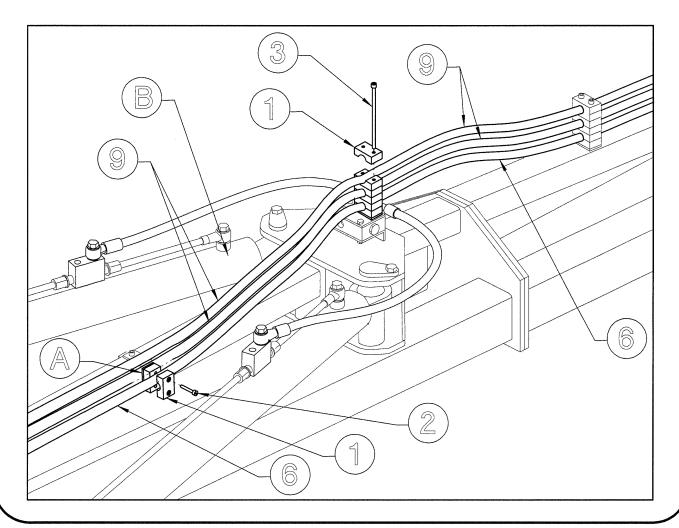
Hoses 6-9 will also be in the next few steps.

In this step, you will use:

Item 1: 8 hose collars dia 18 (45/64")

Item 2: 2 hexagon socket head cap screws M6x25 (15/64"x 1")
Item 3: 2 hexagon socket head cap screws M6x90 (15/64"x 3" 35/64")

Item 6-9: see preceding step.



6

Attach washer 1 and nipple 2 to hole "A" in cylinder valve.

Connect the curved end of hose 3 to nipple 2.

Join hoses 3 to T connector 4 at the center of the machine. We recommend to pass hoses 3 and fitting 4 through hose 6 and hoses 9.

Hoses 6-9 will also be in the next few steps.

In this step, you will use:

Item 1: 2 copper washers 3/8"

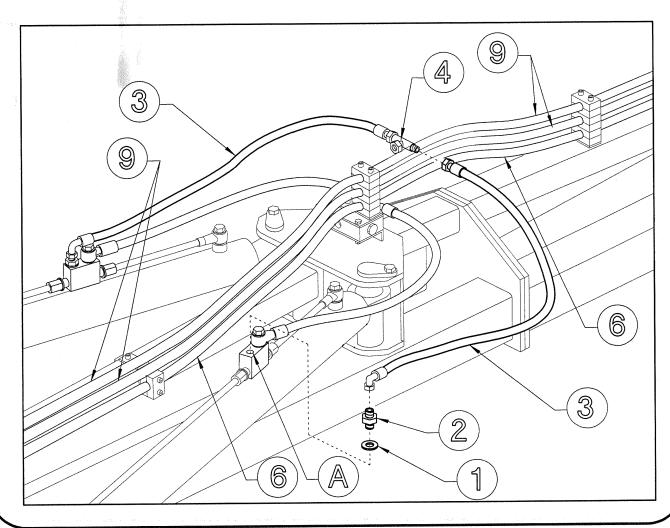
Item 2: 2 nipples 3/8" - 3/8"

Item < 3: 2 hoses (3/8") lenght

750 (3/8" × 2' 5" 1/2)

Item 4: 1 male-female T connector 3/8".

Item 6-9: see preceding step.



7

Screw nipple 1 into hole "A" of the T connector. Screw hose 2 onto nipple 1. Secure hose 2 in place with collars 4 and screw 5. Screw nipple 1 and washer 7 into hole "B" of the flow divider. Screw hose 3 onto nipple 1 and secure in place with collars 4 and screw 5.

NOTE: Hoses 2-3 will also be in the next few step.

In this step, you will use:

Item 1: 2 nipples 3/8" - 1/2"

Item 2: 1 hose (1/2") lenght

7900 (1/2" × 25' 10 3/4")

Item 3: 1 hose (1/2") lenght

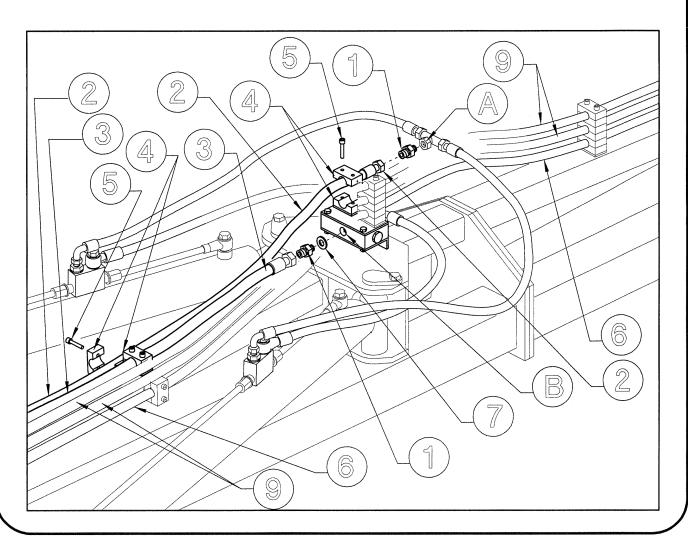
 $7750 (1/2" \times 25' 4 3/4")$

Item 4: 6 hose collars dia.22 (7/8")

Item 5: 6 hexagon socket head cap screws M6x30 (15/64"x1"3/16)

Item 7: 1 copper washer 3/8"

Item 6-9: see preceding step.



8 A CAUTION

@

6-9 using 2-3 using Continue to secure hoses Continue to secure hoses collars 5 and screws 8.

NOTE: Hoses 1-2-3-9 will also be in Connect the hose 6 with the hose collars 4 and screws 7.

In this step, you will use: Item 1: 1 hose (3/8") lenght 4960 (3/8" x 16' 3") the next few step.

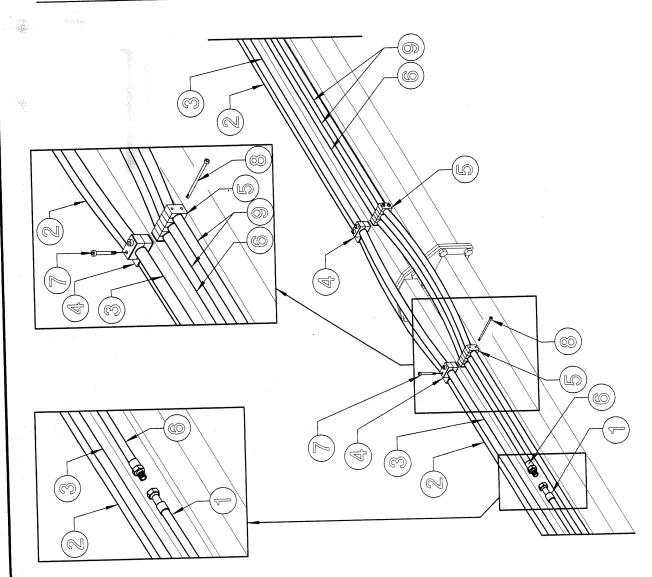
2: see preceding step 3: see preceding step l tem

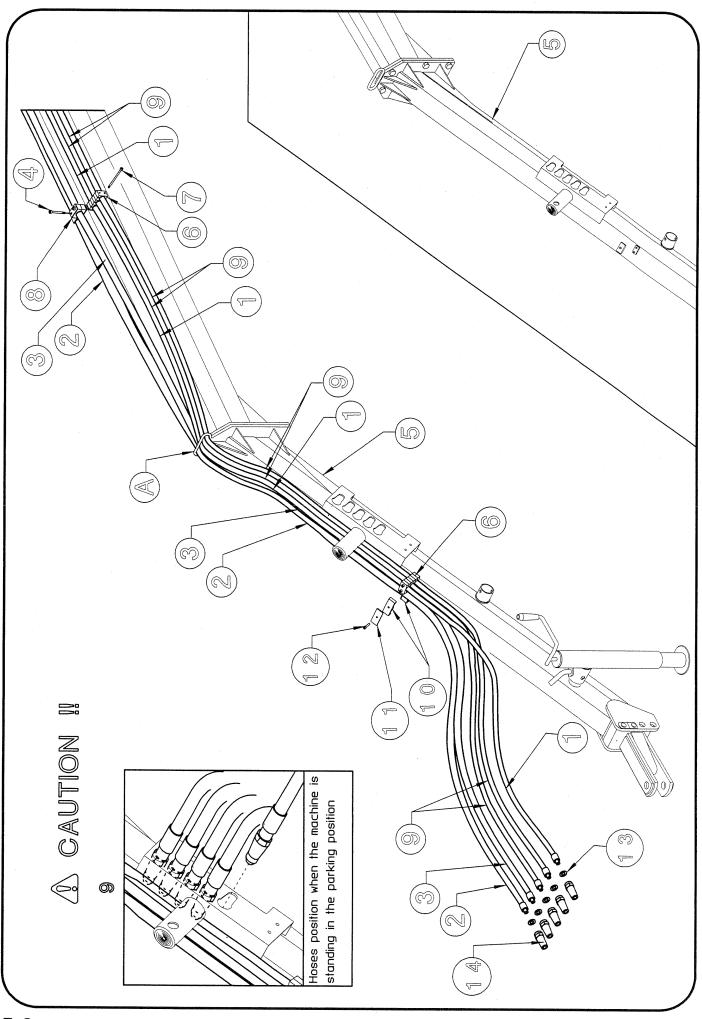
4:8 hose collar 022 (07/8") l tem l tem

5:12 hose collar ø18 (ø45/64") Item 7:8 hexagon socket head cap 6: see preceding step l tem l tem

Item 8:4 hexagon socket head cap screws M6x90 (15/64"x 3 35/64") screws M6x30 (15/64"x 1 3/16")

9: see preceding step l tem

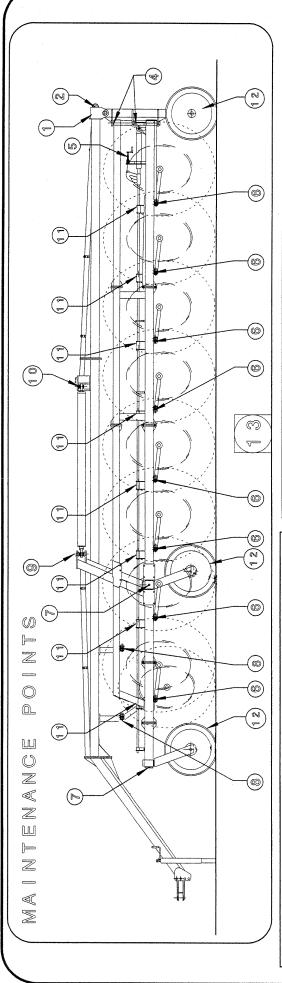


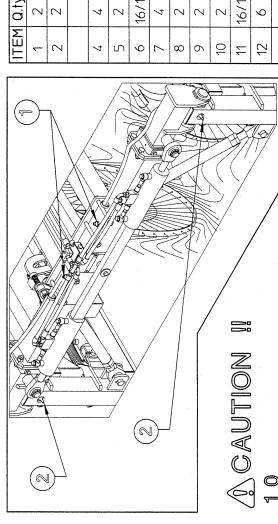


9

Pass hoses 1-2-3-9 through loop "A" on drawbar 5.
Secure hoses 1-9 in the correct places with hose collars 6 and screws 7. Secure hoses 2-3 in the correct places with hose collars 8, screws 4, double hose collars 10, plate 11 and screw 12.
Attach washers 13 and quick-release couplings 14 to the end of hoses 1-2-3-9.

In this step, you will use: Item 1: see preceding step Item 2: see preceding step Item 3: see preceding step Item 4: 4 hexagon socket head cap screws $M6 \times 30$ $(15/64" \times 1" 3/16).$ Item 6:12 hose collars ø18 (a15/64")Item 7: 4 hexagon socket head cap screws M6 x 90 $(15/64" \times 3 35/64")$ Item 8: 4 hose collars Ø22 (a7/8")Item 9: see preceding step Item 10: 2 double hose collars ø22 (ø7/8") Item 12: 1 screws $M8 \times 45$ $(5/16" \times 1 3/4")$ Item 13: 5 copper washers 1/2" Item 14: 5 quick-release coupling 1/2"





At this point, the machine is completely assembled. Before testing for operation, it is necessary to lubricate and check the movement of all parts. This diagram gives the maintenance program, to be carried out in its entirety the first time, and subsequently according to the schedule as shown.

	ITEM 0.ty	Q.ty	DESCRIPTION	OPERATION EVE	EVERY × HOURS
	_	2	Fixed cross member	Lubricate	A
L	2	2	Rear wheel support		25
L					
<u> </u>	7	4	Rake wheel section joints	R	8
	5	2	Crank screws	n	A
	9	16/14	Rake wheel bracket joints	7	25
	7	7	Wheel support joints		8
	8	2	Small rake wheel joints (optional)	· ·	25
	6	2	Opening cylinder head joints	1	16
	10	2	Opening cylinder foot joints	н	16
	11	16/14	Pipe supports	ď	25
	12	9	Tires	Check pressure	A
			General checking of bolts, security pins and split pins	y pins and sp	ilit pins
			to be carried out initially after the first 8 hours		of use.
	<u>0</u>	1	Subsequently every 50 hours and whenever the machine	d whenever the r	nachine
+,			is laid up for extended periods.		
			A = EVERY TIME THE PART IS USED	JSED	

GENERAL INSTRUCTIONS FOR USE

♠ DANGER III

1 1

To connect the machine to the tractor, first it is necessary to raise or lower parking stand 1 so that drawbar 2 is parallel to the ground. Back the tractor up to the machine and look to see if hitch 3 is aligned with tractor hitch 4. If hitch 3 is much higher or lower than tractor hitch 4, it is necessary to change the position of hitch 3 by choosing the

A CAUTION !!

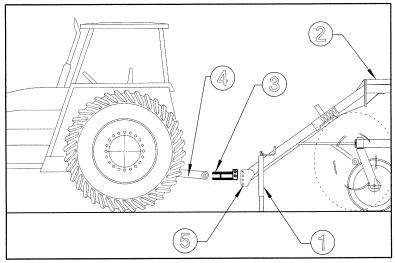
12

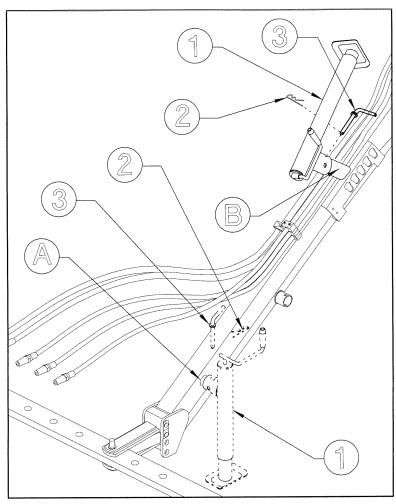
During transport and working the parking stand 1 must be shifted from position "A" to position "B".

This is done by removing clip 2 and pin 3 an moving stand 1 out of the parking position.

Fasten parking stand 1 into the transport position using pin 3 and clip 2. holes in plate 5 which give the best alignment.

At tis point connect hitch 3 to tractor hitch 4 using a suitable pin.





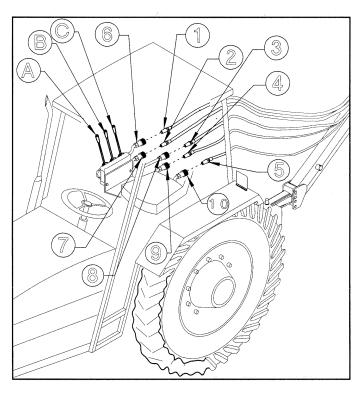
♠ DANGER !!!

13

At this point quick-release couplings of hoses 1-2-3-4-5 should be attached to the relative tractor couplings 6-7-8-9-10. The movements of the machine are now controlled by operating levers A-B-C. Hoses 1-2, connected to tractor couplings 6-7, control the cylinders for opening the machine. Hoses 3-4, connected to tractor couplings 8-9 control the rear opening cylinders.

Hose 5, connected to tractor coupling 10, controls the cylinders for lifting the rake

wheels. It is recommended that all movements be repeated a few times to eliminate air from the system. The machine is now ready for operation.

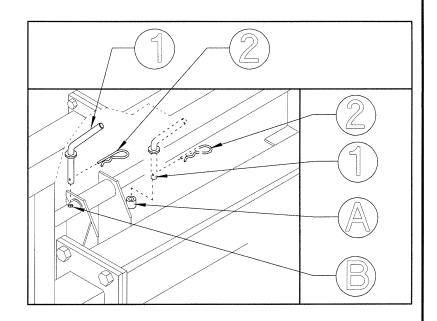


A CAUTION !!

14

During transport it is necessary to move pin 1 and clip 2 from position "A" to position "B".

This removes the load from the rake wheel lifting cylinders.



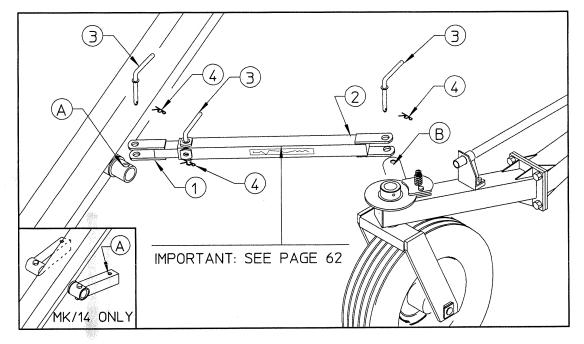
⚠ DANGER !!!

15

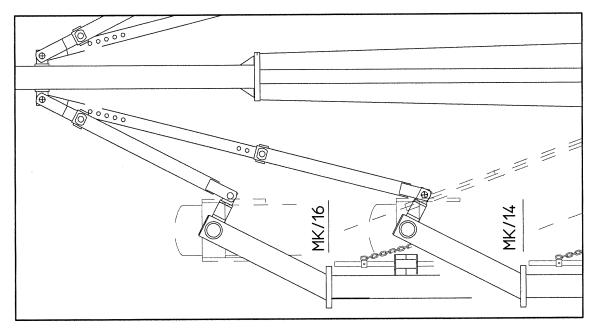
At this point it is necessary to attach the transport arms. Insert arm 1 in arm 2 and lock in place with pin 3 and clip 4. The transport arm assembly is then attached by placing the fork of arm 1 on attachment A of the draw-

bar and the fork of arm 2 on the wheel support. Fasten with pins 3 and clips 4.

In this step, you will use: Item 3: 6 pins ø15 x 87 (ø19/32"x 3 27/64") Item 4: 6 clips ø3 (ø1/8")



This is the assembly diagram for the MK16 and MK14. The row of holes on the arms is for when the rear axle is widened. Under no circumstances should the cylinders be operated while the transport arms are attached. The machine is now to be transported to the work site.



GENERAL INSTRUCTIONS FOR FIELD USE

\Q\

CAUTION II

17

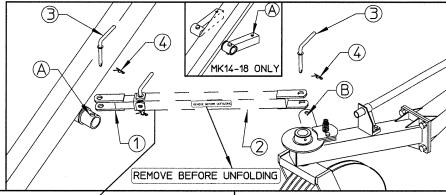
The first thing to be done in the field is to remove transport arm 1-2, replacing pins 3 in holes A-B and fastening them with clips 4. The transport arm 1-2 assemblies are to be placed over pins C-D on

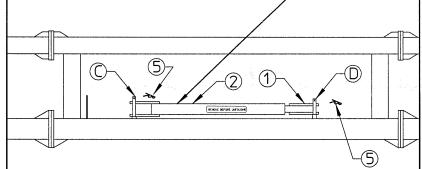
the rake wheel sections as shown. Fasten the transport arm to pins C-D with clips 5.

In this step, you will use: Item 5: 4 clips d.3 (1/8")

IMPORTANT I

BEFORE STARTING RAKING
OPERATION MAKE SURE
THAT THE TRANSPORT
LOCK ARMS HAVE BEEN
REMOVED FROM THE
TRANSPORT POSITION
AND SET IN WORKING
POSITION.





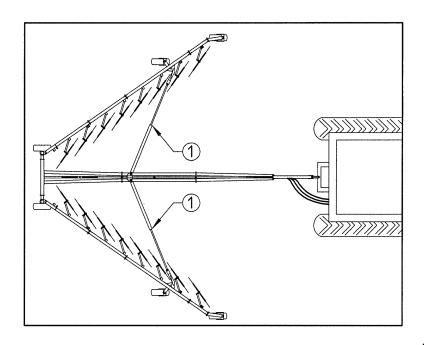
TRANSPORT LOCK ARMS
CANNOT BE USED TO
LOCK ONE RAKING WING,
R.H. OR L.H. IN ORDER
TO WORK ON ONE SIDE
ONLY BECAUSE THIS IS
NOT ALLOWED.

CAUTION II

18

By operating the opening cylinders 1, the machine is opened to the fully open position.

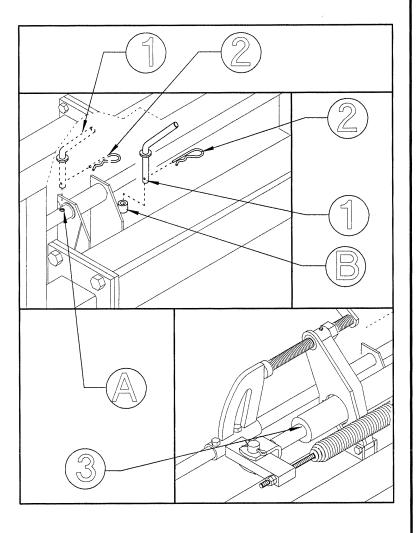
NOTE: If work must be done on particularly uneven ground, do not operate in the fully open position. Open the machine so that it is at 3' narrower than the fully opened position.



A CAUTION !! 19 IMPORTANT !

Before starting to work it is necessary to move pin 1 and clip 2 from position "A" to position "B".

Operate cylinders 3 to lower the rake wheels.

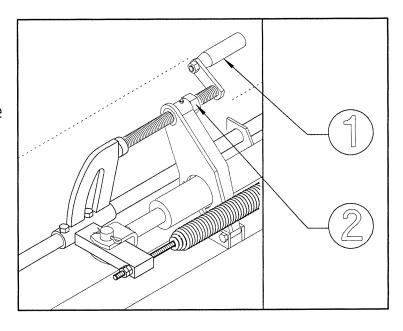


A CAUTION !!

20

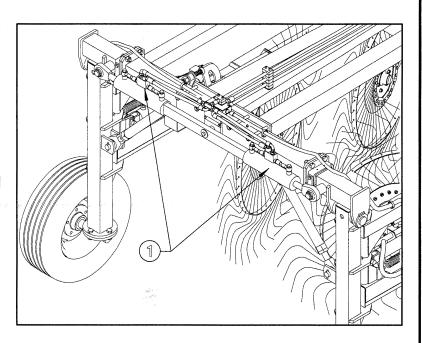
Adjust rake wheel pressure on the ground by turning crank 1.

Normally the rake tines should brush the ground. When properly adjusted, tighten nut 2 to lock the screw of lever 1 in place.



21

On this version the windrow width adjustment is made through cylinders 1 operated directly from tractor's seat. On this subject, see point 45 on page 44.



IMPORTANT !

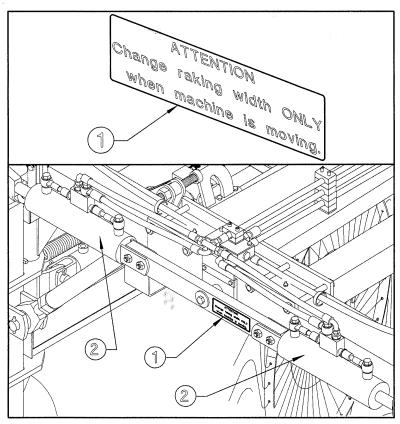
REAR OPENING STARTS AT 72" TO A MAXIMUM OF 88" AND THIS ALLOWS TO OBTAIN WINDROWS FROM APPROXIMATELY 3' AND 6" TO A MAXIMUM OF 5' AND 6".

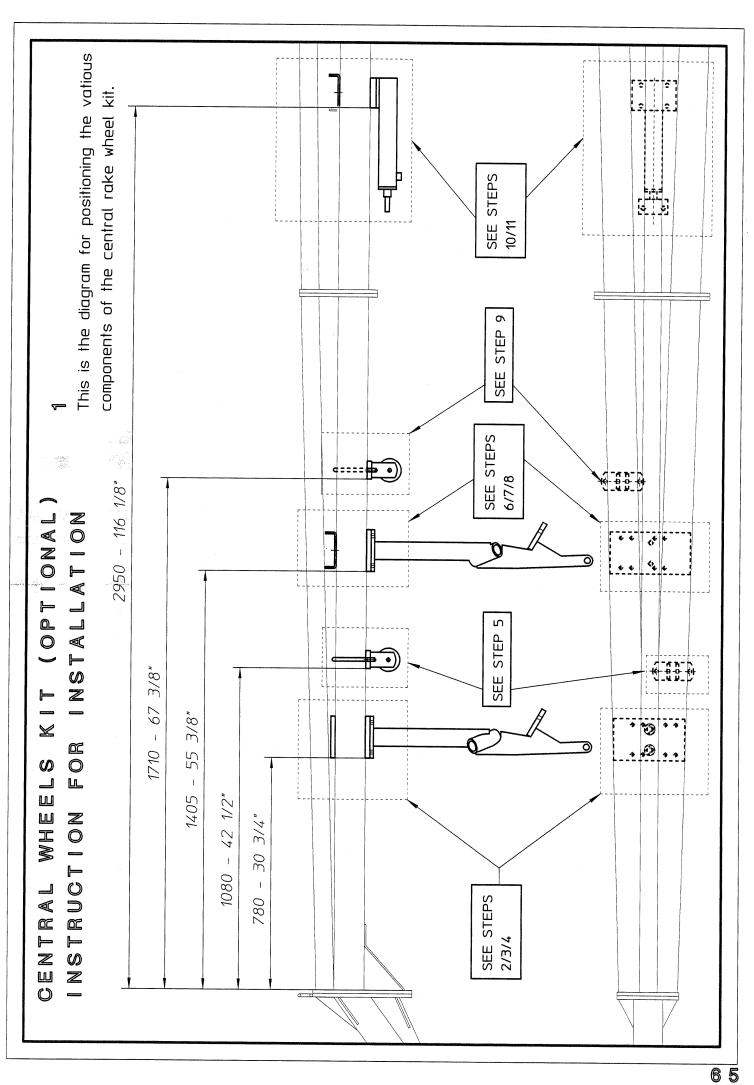
NOTE: These measures are approximate and vary due to the type of forage, conditions of forage (whether it is more or less dry) and the type of ground.



22

VERY IMPORTANT:
as expllicitly indicated on
decals 1 you have to operate
cylinders 2 only when machine
is running.

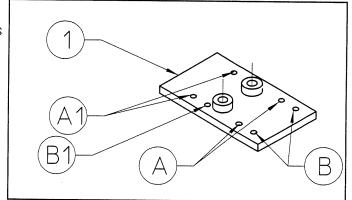




2

Plate 1 has the A-A1 and B-B1 pairs of holes that allow adjustment of the rake wheel position.

We recommend fastening support 2 (see point 4) to the A-A1 pairs of holes.

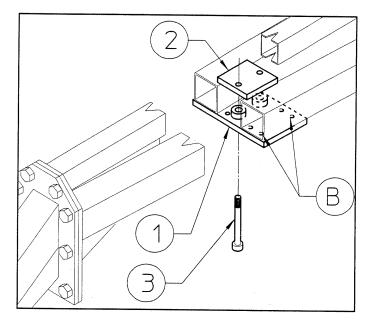


ATTENTION!!!

Place plate 1 against the lower part of the drawbar and fasten it with plate 2 and screws 3. For positioning, see point 1.

Note: the B pair of holes should must be positioned as shown in the drawing.

In this step, you will use: Item 3: $2 \text{ screws M16} \times 110$ $(5/8" \times 4 3/8")$



ATTENTION!!!

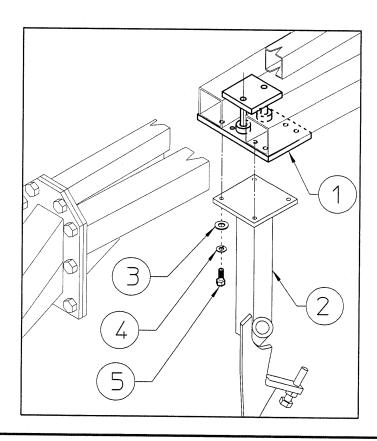
Attach support 2 to plate 1 using washers 3 - 4 and screws 5.

In this step, you will use:

Item 3: 4 washers ø13 (ø1/2")

Item 4: 4 spring washers Ø13 (01/2")

Item 5: 4 screws M12x25 $(1/2" \times 1")$



🔌 attention!!!

Mount pulley 1 and bush 2 into bracket 3 using special screws 4 and nuts 5.Repeat these assembling also for rear support.

Place the pulley support 6 against the lower part of the drawbar and fasten it with U bolt 7, washers 8 and nuts 9.

For positioning, see point 1.

In this step, you will use:

Item 4: 2 special screws M12x70 $(1/2" \times 2 3/4")$

5: 2 nuts M12 (1/2") Item

Item 8: 2 washers ø13 (ø1/2")

Item 9: 2 nuts M12 (1/2")



Plate 1 has the A-A1 and B-B1 pairs of holes that allow adjustment of the rake wheel position.

We recommend fastening support 2 (see point 7) to the B-B1 pairs of holes.



ATTENTION!!!

Place plate 1 against the lower part of the drawbar and fasten it with counterplate 2, washers 3 and screws 4.

For positioning, see point 1.

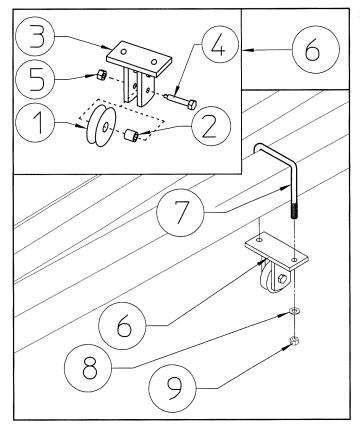
Note: the B1 pair of holes should must be positioned as shown in the drawing.

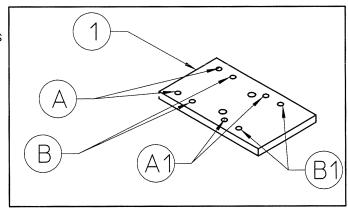
In this step, you will use:

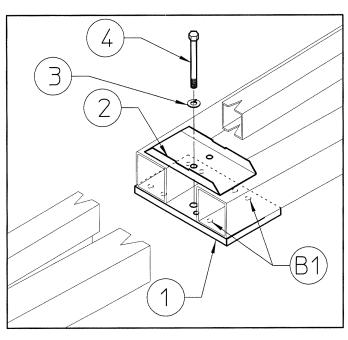
Item 3: 2 spring washers ø17 (ø11/16")

Item 4: 2 screws M16 x 120

 $(5/8" \times 4 3/4")$







🖄 attention!!!

8

Attach support 2 to plate 1 using washers 3 - 4 and screws 5.

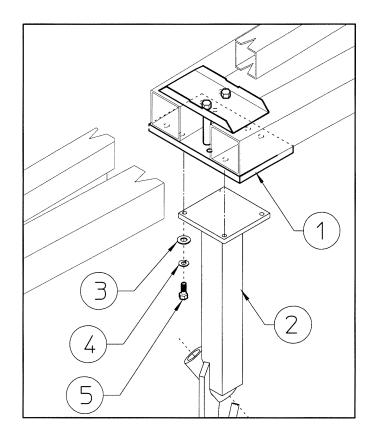
In this step, you will use:

Item 3: 4 washers ø13 (ø1/2")

Item 4: 4 spring washers ø13 (01/2")

Item 5: 4 screws M12x25

 $(1/2" \times 1")$





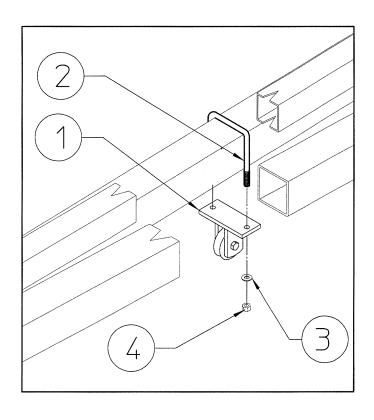
Place the pulley support 1 against the lower part of the drawbar and fasten it with U bolt 2, washers 3 and nuts 4.

For positioning, see point 1.

In this step, you will use:

Item 3: 2 washers ø13 (ø1/2")

Item 4: 2 nuts M12 (5/8")



ATTENTION!!!

10

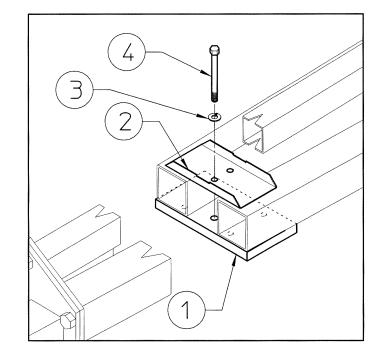
Place plate 1 against the lower part of the drawbar and fasten it with counterplate 2, washers 3 and screws 4.

For positioning, see point 1.

In this step, you will use:

Item 3: 2 spring washers ø17 (ø11/16")

Item 4: 2 screws M16 x 120 $(5/8" \times 4 3/4")$





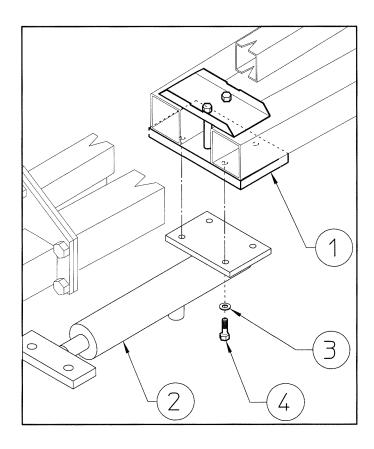
ATTENTION!!!

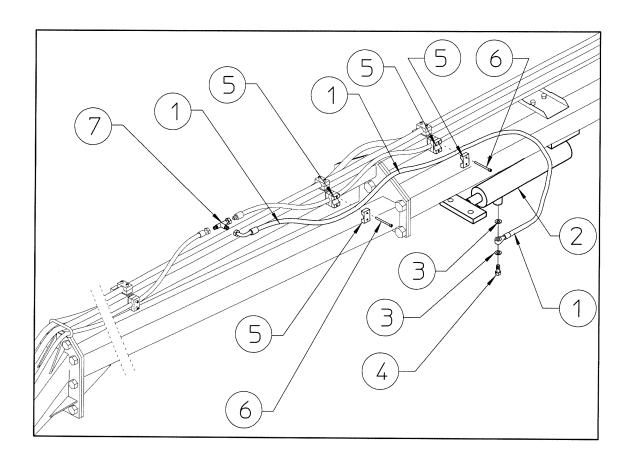
Fasten cylinder 2 to plate 1 using washers 3 and screws 4.

In this step, you will use:

Item 3: 4 spring washers ø13 (01/2")

Item 4: 4 screws M12x30 $(1/2" \times 1 3/16")$







ATTENTION!!!

12

Fasten hose 1 to cylinder 2 using copper washers 3 connector 4.
Secure hose 1 with collars 5 and screws 6.

Connect "T" connector 7 between the two hoses as shown in the drawing.

Connect the curved end of hose 1 to "T" connector 7.

In this step, you will use:

Item 1: 1 hose (3/8") lenght

1550 (3/8" × 61")

Item 3: 2 copper washers 3/8"

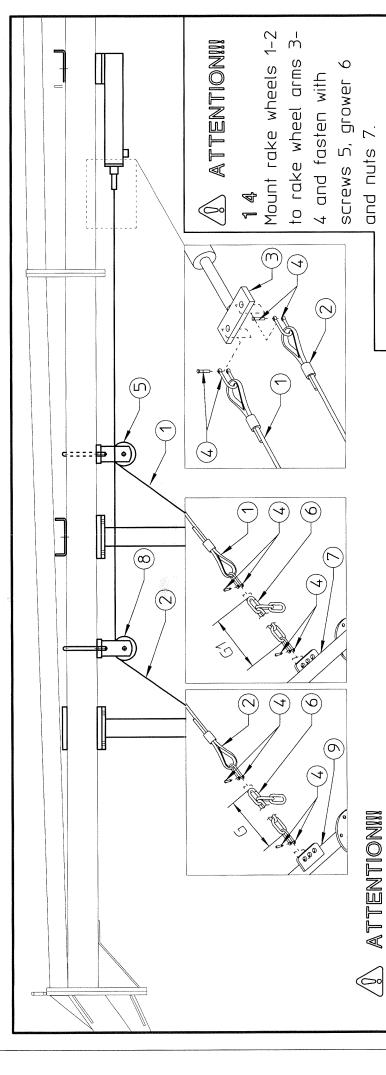
Item 4: 1 screw 3/8"

Item 5: 4 hose collars ø18 (ø45/64")

Item 6: 4 hexagon socket head cap screws M6 x 60 (15/64" x 2 3/8")
Item 6:*4 hexagon socket head cap screws M6 x 130 (15/64" x 5 1/8")

Item 7: 1 "T" connector 3/8"

*Use the screws M6 x 130 (15/64" x 5 1/8") if the machine is already with hydraulic rear opening.



In this step, you will use: Item 1:1 cable lenght 1050 (41 21/64") Item 2:1 cable lenght 1670 (65 47/64")

Connect to indicated rate chain 6 to

Insert cable 2 on pulley support 8.

cable 1 by using clamp 4.

Fit chain 6 to front wheel support

9 by using clamp 4.

Fit chain 6 to rear wheel support 7

by using clamp 4.

Insert cable 1 on pulley support 5.

Fit cables 1–2 to cylinder 3 by

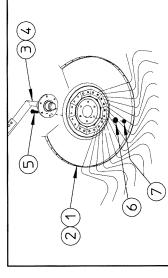
using clamps 4.

Item 4: 6 clamps 5/16" Item 5: 2 chain lenght 490 Note : $G = N^{\circ} 4$ rings of chain $G1 = N^{\circ} 6$ rings of chain

Connect to indicated rate chain 6 to

cable 2 by using clamp

In this step, you will use:
Item 5:12 screws M10 X 25
(2/64" x 1")
Item 6:12 growers ø10.5-17x2.5
(ø27/64"-11/16" x 3/16")
Item 7:12 nuts M10 (25/64")



ADJUSTMENTS FOR USE

So far we have described how to assemble the central rake wheel standard kit. Should the operator feel the operational results unsatisfactory, we now describe points where adjustments can be made.

A

In order to improve lift, the rake wheels can be moved backwards or forwards compared with the position shown at point 1 and the pulley support 1-2.



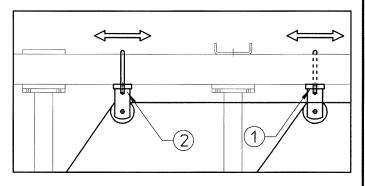
The adjusting screw 1 can be used to improve both lift and/or pressure of the rake wheels on the ground. Either of the holes 2 in the arms 2-3 (front-rear) can be used and a different ring in chain 7 from the one shown in point 13 can be attached to cables 5-6 (front-rear).

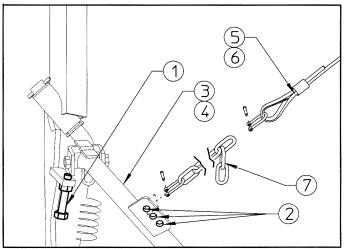


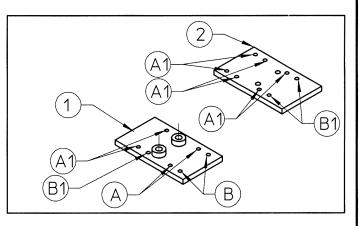
In order to increase and decrease interference between the side-delivery rake wheels, various positions can be selected to fasten the rake wheel holder supports (see points 3-7)

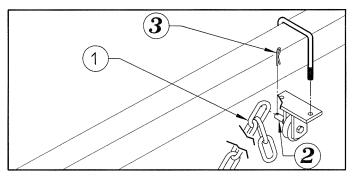
D

In order the ensure that the rake wheels are not lowered during transport, hook chain 1 on to pin 2 and block the cotter pin 3.













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