FLAIL MOWER

AGF Series

Operation, Service & Parts Manual For AGF Off-set Mulcher

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GENERAL INFORMATION

INTRODUCTION:

The AG Flails are primarily designed to mow grass, weeds and light brush.

The mowers are assembled for operation with 1000 RPM tractor input only (rated PTO up to 45 HP), and supplied standard with Cat. I lift pins for tractor attachment.

The mowers can fit Cat. I quick attach hitch, by using suitable bushings to adapt diameters of lift pins.

SYMBOLS:

This booklet contains three "safety graphic symbols" which highlight the relevant danger levels or important information:



It draws the operator's attention to situations which can jeopardize people's safety.



It draws the attention to situations which jeopardize the machine efficiency but not people's safety.

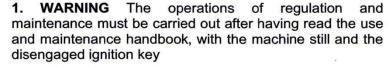
It highlights general information which does not endanger people's safety or the efficiency of the parts.

SAFETY LABELS

SAFETY LABELS:

The safety labels and the information on the machine, listed in the following table, must







2. WARNING – DANGER of fluids under pressure. Read the handbook before to intervene and in case of injury address to a doctor.



3. WARNING Make sure of the rotation direction and of the number of revolutions (540 rev./min.) of the power taking of the tractor before to insert the PTO shaft.



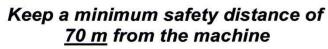
4. WARNING – DANGER Make sure that the shredder is completely still before to approach to it.



5. WARNING – DANGER of shearing of the feet. Keep the distance.



6. WARNING Possible throw of material and/or objects, do not stand, get through or approach to the machine.





7. WARNING It is forbidden to go on the machine when it is in movement.



- **8. WARNING** Danger of catching and dragging. Do not approach the hands to the transmission shaft in motion.
- **9. WARNING** Do not stand between the tractor and the machine.

be necessarily read and respected; failure to follow these warnings can cause death or severe injuries. Make sure that the labels are always present and legible, should this not be the case, contact your nearest Gear more dealer to replace the missing or illegible



10. DANGER of crash for the legs. Keep the proper distance.



11. DANGER of squashing / shearing of the hands.



12. WARNING Hot surface. Keep the proper distance



13. WARNING Do not remove or open the protection carters till the belts are completely still



14. WARNING DANGER of squashing. Do not stand in the move and side shifting zone of the machine.



15. WARNING: for the lifting, hook the machine exclusively in the indicated points.











16. Use the requested Individual Protection Devices.



17. Greasing points

SAFETY LABELS

SAFETY

ALLOWED USE:

AG flail mowers, as described in this instruction and maintenance booklet, have been specifically designed to mow grass, weeds, and light brush up to 1" diameter. Any other use jeopardizes the operator's safety and the machine integrity.

IMPROTER USE:

The mower was designed to mow grass, weeds, and light brush only. Only operate this mower on a properly sized and equipped tractor.

When using AG flail mowers, it is particularly **forbidden**:

- The attachment to tractors of unsuitable power or weight.
- To use other than 1000 R.P.M. PTO speed.
- To work in excessively stony grounds.



- To work on excessive slopes.
- To approach the machine when wearing inappropriate works clothing.
- To get on the machine while it is being used or

transported.

Operating this mower in an application for which it is not designed and/or operating with the wrong size tractor can cause mower component damage and equipment failure resulting in possible serious injury or death.

SAFETY

SAFETY IN THE WORKPLACE:

Most of the accidents which take place while the operator is using the machine or the equipment or during their maintenance or repair are caused by a lack of compliance with the basic safety precautions. It is necessary, therefore, to become more and more conscious of the potential risks of one's action by constantly paying attention to its

effects.

<u>If potentially dangerous situations are known, accidents can be prevented!</u>

OPERATOR'S REQUIREMENTS:

Physical: good eyesight, coordination and capability of carrying out all functions required for the machine's use.

SAFETY

Mental: Capability of understanding and applying the established rules and safety precautions. Users must pay attention and be sensible for their own and other people's safety.

Training: users must have read and studied this manual, its eventual enclosed graphs and schemes and its identification and danger plates. They must be skilled and trained on any use or maintenance activities.

Work CLOTHING:

When working and especially when executing repair or maintenance activities, it is necessary to wear the following clothing and safety accessories:

- Overalls or other comfortable clothing, not too loose to prevent the







possibility that parts of them might be caught in the moving parts.

- Protective gloves for hands.
- Protective glasses or faceplate to protect eyes and face.
- Protective helmet for the head.
- Safety shoes

Wear only personal safety accessories in good condition and complying with the rules in force.

GENERAL SAFETY RULES

ALWAYS CONSIDER THE FEATURES OF THE AREA WHERE WORK IS TAKING PLACE:

- When the equipment is running, it is forbidden to stand within the field of action of the shredder or of the other accessories of which it is provided with.

PREPARE THE WORK:

- Before and when working, do not drink alcohol, take drugs, or any other substances which may alter your capability of working with machine tools.
- Be sure to have sufficient fuel, to prevent a forced stopping of the machine, maybe during a critical movement.
- Do not use the equipment under unsafe conditions. For instance, it is forbidden to execute makeshift repair activities just to start working; it is forbidden to work at night with an insufficiently illuminated working area.
- NEVER operate implement without all shields in place and in good operational condition. The operator must be familiar with the mower and tractor and all associated safety practices before operating the mower and tractor.

WHEN WORKING OR DURING THE MAINTENANCE ACTIVITIES IT IS NECESSARY TO

REMEMBER:

- The labels and stickers providing instructions and pointing out the dangers, must not be removed, hidden, or made illegible.
- Do not remove, except in case of maintenance, the shields, guards, and deflectors equipped on the mower. When it is necessary to remove them, stop engine, handle with care and reassemble them properly before restarting the engine and using the equipment. The mower is equipped with protective deflectors to prevent objects being thrown from the

mower by the blades, however, no shielding is 100% effective. All shields, guards, and deflectors equipped on the mower must be maintained in good operational condition.

- It is forbidden to lubricate, clean and adjust the moving parts while they are running.
- During maintenance or adjustment activities on the equipment it is forbidden to use hands for executing operations for which there are specific tools.
- Do not use tools in bad condition or inappropriately, for instance pliers rather than monkey spanners, etc.
- When maintenance or repairs are completed check out that no tools, wiping rags, or other materials are left inside spaces or guides with moving parts.
- While using the equipment, it is forbidden to make more than one person give directions and make signals. The eventual directions and signals relating to the load handling must be given by one person only.
- Do not unexpectedly call an operator while he is working if not necessary; it is forbidden as well to frighten or throw objects at the operator, even if just for fun.
- Watch out for those who are present, especially the children!
- Do not make people get on the machine.
- When the equipment is not needed, stop the vehicle's engine, park it on flat ground with first speed and parking brake on, with the machine rested on the ground and PTO disengaged.
- Do not clean, lubricate, repair or adjust with the engine running and the machine lifted.
- Never use the machine on steep slopes which may jeopardize the equipment's stability.

The manufacturer declines all responsibility for a lack of compliance with these instructions.

SET UP

ATTACHMENT TO THE TRACTOR

Before operating the mower, carefully read this Operator's Manual, completely understand the safety instructions, and know how to operate correctly both the tractor and the PTO shaft, reading carefully the instruction manuals of the tractor and PTO shaft manufacturers.

All AG flail mowers have been manufactured to be attached to any tractor provided with hydraulic and universal 3-point hitch.

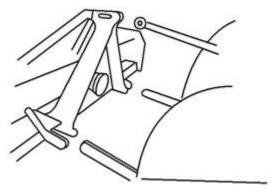
The tractor used to operate the mower must have the power, capacity, and required equipment to safely operate the mower. Operating the mower on improperly sized and equipped tractors may cause tractor and/ or mower damage and could be a potential danger to the operator and passers-by.

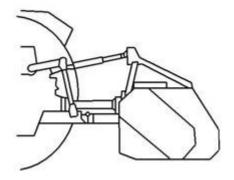
Before attaching the equipment to the tractor, set both on a flat and smooth ground and make sure that nobody is standing between them.

Move slowly the tractor towards the flail mower by aligning the tractor hydraulic lift arms to the two mower hitches' lateral brackets; stop engine and set parking brake.

Connect first the lower arms by removing the release pins of the brackets placed on the plates, inserting the lift arms into the arms center and fastening them with the relevant release pins, which had been removed.

Connect, then, the tractor top link to the third upper point by removing the pin located between the plates, inserting the top link itself and locking it with the pin.





SET UP

Adjust the third point so that the upper part of the frame is parallel to the ground. Lock all connection parts with the special sway chains or tie rods.



It is always good to make sure that the central gearbox axis is parallel to the ground thus reducing the stresses on the power takeoff and extending the working life of the equipment.

Pay attention to the tractor's front wheels grip when the equipment is set up and lifted; if the wheels appear to be too lightened, ballast the tractor front tires or add front weights.

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After executing the above-mentioned activities it is always good to check that all bolts and nuts of your shredder are tightened strongly (refer to the torque

specifications in this manual).



SET UP

DRIVELINE ATTACHMENT

Before assembling the PTO shaft, check out that its RPM and direction of rotation match those of the tractor. Moreover, read carefully the instruction manuals of the PTO shaft and the tractor manufacturers. Before starting work, make sure all safety shields are in place. Check in particular that the safety guards cover the PTO shaft throughout its extension. When attaching the mower input driveline to the tractor PTO, be sure that the connecting yoke spring activated locking collar slides freely and the locking balls are seated securely in the groove on the tractor PTO shaft. A driveline not attached

correctly to the tractor PTO shaft could come loose and result in personal injury and damage to the implement.

Make sure the driveline will not bottom out (at its most compressed position there must be at least a 3/4" clearance between each profile end and opposite profile universal joint) or become disengaged (at its farthest extended position a minimum profile engagement of 1/3 of the length must be maintained).

Check out that the cardan shaft minimum and maximum length are the ones required by the machine-tractor coupling. Should problems arise, contact a skilled repair shop or the driveshaft retailer. After installation, secure safety guards both to the tractor and the machine using the special chains and



make sure that they pivot freely. If

the PTO shaft is equipped with other safety devices, such as a pair limiter or freewheels, be sure to install them on the machine side. As for the PTO use and maintenance refer to the relevant booklet.

SET

UP

WORKING HEIGHT

ADJUSTMENT

The machine's working height is determined by the position of the rear roller. Lifting the roller the cutters get close to the soil, whereas lowering it the cutters get far from it.

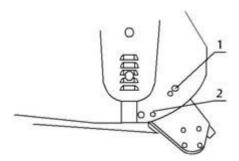
Minimum

1/3 of Length

Maximum

14

After a modification of the working height be sure that the cutters skim the ground; a direct contact with it would cause their wear and this could affect the cutting rotor balance and may cause objects to be thrown out from under the mower deck.



FLAIL MOWER ADJUSTMENT

- On a flat piece of ground, attach the Flail Mower to the Tractor using the three point linkage
- Use a solid adjustable top link
- Lower the three point linkage to its lowest position
- With the roller at the rear in contact with the ground, adjust the length of the top link so that the lower edge at the side of the flail mower is parallel with the ground
- Rotate the blade drum by hand so that a row of blades hang vertically towards the ground.
- Measure the clearance between the bottom of the extended blades and the ground.
 - Minimum 50mm
 - Note in rough or lumpy paddocks the clearance needs to be increased to ensure that the blades dont impact the ground in operation.
- Adjust the roller height to increase or decrease the blade clearance as required
- Go through steps 4 to 7 until the required clearance is achieved.

When the Flail Mower has been set up with the required tolerances:

Operate the Flail Mower with tractor in low range and the PTO delivering 1000 RPM

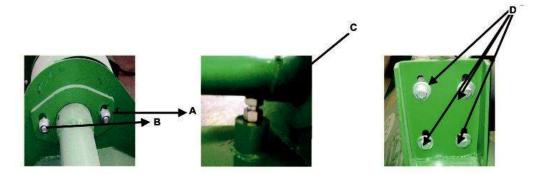
SET UP

DRIVE BELT ADJUSTMENT

Loosen the Screw A and B that locks the support shaft and loosen the counter nut C.

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Loosen the screws that lock the gear box on the mounting plate D.



Adjust the drive belt tension. The correct belt tension is achieved when the belt can be deflected by the belt thickness about 10mm at the center point between the pulleys.

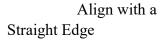
Align the gearbox so the drive shaft is parallel with the body.

Use a straight edge to make sure the belt pullies are inline and running true. If misaligned, call your dealer or service agent for technical support.

Fit the safety covers and tighten the mounting bolts before operation.

Approx.10mm

Deflection







TRANSPORT & STORAGE

WORKING SPEED

The working speed depends on quality, diameter and height of the material to be cut; anyway, for efficient mower performance it must be between 2 and 5 MPH. The power takeoff speed must be 1000 RPM maximum. Operate the mower at its full rated PTO speed to maintain blade speed for a clean cut.

Do not exceed the rated PTO speed for the implement. Excessive PTO speeds can cause driveline or blade failures resulting in serious injury or death.



ROAD TRANSPORT

Extreme caution should be used when transporting the tractor and implement on public roadways. The tractor must be equipped with all required safety warning features including a SMV emblem and flashing warning lights which are clearly visible from the rear of the unit. Make sure you are in compliance with all local regulations regarding transporting equipment on public roads and highways. Do not exceed 20 MPH (32 kph). Reduce speed on rough roads and surfaces. Always use hazard flashers on the tractor when transporting unless prohibited by law.

STORAGE

If your shredder will not be used for a long period of time, respect the following suggestions:

- 1. Wash the machine thoroughly and dry it.
- 2. Lubricate all bearings with enough grease to eliminate any cavities where water condensation may occur and cause damage. Refer to "Maintenance of the Machine" for location of all grease fittings. Be sure the vent on top of the gearbox is open.
- 3. Loosen the set nut and spindle jack to relieve drive belt tension (NOTE: Before next season's use, be sure to adjust the drive belt tension.)
- 4. Coat all exposed surfaces inside the mower with oil or grease to prevent

rusting and pitting during storage.

5. Protect the whole machine with a tarpaulin and put it in a dry place.

PRE-SEASON CHECK

- 1. Check the oil level in the gearbox and lubricate all bearings. See "Lubrication".
- 2. Adjust drive belt tension. See "Belt Drive".
- 3. Check out all equipment and replace damaged or worn parts.
- 4. Tighten all bolts and nuts (See "Torque Specifications").
- 5. Inspect for missing and/or broken blades/knives. Replace as necessary. See "Knife Replacement".
- 6. Be sure that the safety guards are in place and secure.
- 7. Run the Flail Mower at a low RPM checking to make sure that all driveline parts are moving freely.

MAINTENANCE

MAINTENANCE

Maintenance is a fundamental operation to extend life and performances of any agricultural vehicle; taking care of the machine grants you not only a good work execution, but also a longer life of the whole equipment and a greater safety on the workplace.

The operating times indicated in this manual have just an informative character and are referred to normal conditions of use; they can thus undergo variations according to the type of service.

Before injecting lubricating grease into the zerks, clean them accurately to prevent mud, dust, or other foreign matters from mixing up with grease, thus diminishing the lubrication effect.

 When adding or changing oil, it is better to use the same oil type, in order to avoid mixing oils with different features.



- Before executing maintenance activities on the machine, stop engine, disengage power takeoff, set parking brake and place the equipment on the ground in horzontal position.
- After the first working hours, check that all bolts and nuts are tightened; remember also to check often all the machine safety guards.

MAINTENANCE

FIRST CHECK

- Check the correct tension of the driving belt
- Check that all bolts and nuts are tightened
- After the first 50 hours of work, change oil in the gearbox

EVERY 8 HOURS OF WORK

- Rotate teardrop shaped plate B and grease the shaft support (driveline side) through the lubricating nipple A (picture 1)
- Grease the shaft support (external side) through the lubricating zerk A (picture 2)
- Grease the shaft support (driveline) and the belt tensioner idler pin through the lubricating zerks A and B (picture 3)
- Grease the stabilizing roller through the lubricating zerkA (picture 4)

EVERY 50 HOURS OF WORK

- Check the correct tension of the driving belt
- Check that all bolts and nuts are tightened
- Check the cutters/hammers for wear
- Check the overgear unit oil level through plug A (picture 5)

EVERY 500 HOURS OF WORK

- Check that all bolts and nuts are tightened
- Change oil in the overgear unit

EVERY 1000 HOURS OF WORK

- Replace the driving belt

GEAR BOX MAINTENANCE

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- The oil should be drained out and replaced after the first 50 hours of operation.

 Then the oil should be changed every 250 hours, or at least once a year.
- Drain oil from the gearbox thoroughly. Check and clean it. Fill with new gear oil up to the dedicated oil level.
- The draining procedure is as follows: remove the draining bolt under the gear box, so that the oil drains off. After the oil is drained out, put the plug back and fill with gear oil up to the dedicated oil
- level.

MAINTENANCE

	81	nrs/ D	aily	50h	rs/We	ekly	Δ	nnua	lly
Lubricate PTO Shaft							\checkmark		
Lubricate Caster Wheels							$\sqrt{}$		
Lubricate Blade Spindle	$\sqrt{}$						\checkmark		
	5								
Check Gear Box Oil Level							\checkmark		
Clean Machine						·	$\sqrt{}$		
Lubricate and Clean PTO Shaft Cover							$\sqrt{}$		

PTO SHAFT MAINTENANCE

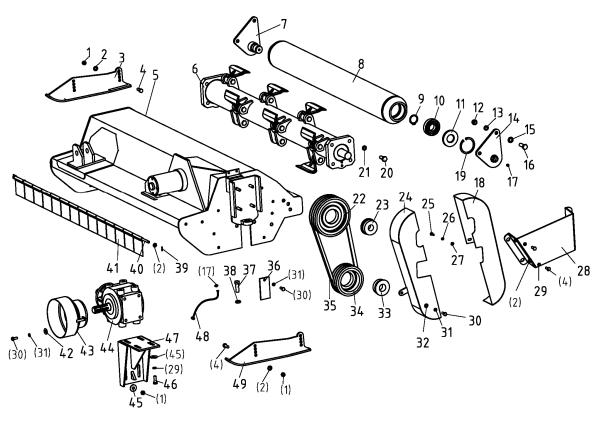
The PTO shaft is designed to telescope to allow for dimensional changes as the machine goes through its operating range. A tubular guard encloses the driving components and is designed to turn relative to the driving components. The shaft should telescope easily and the guard turn freely on the shaft at all times. Annual disassembly, cleaning and lubrication is recommended to insure that all components function as intended. To maintain the shaft, follow this procedure:

- 1. Remove the shaft from the machine.
- 2. Pull shaft apart.
- 3. Use a screwdriver to pry the tabs out of the sleeves on each end.
- 4. Pull the shaft out of the plastic tubular guard.
- 5. Use a solvent to clean the male and female portions of the telescoping ends.
- 6. Apply a light coat of grease to each end.
- 7. Clean the grooves on each end where the tabs are located. Clean each tab also.
- 8. Apply a light coat of grease to each groove.
- 9. Insert the shaft into its respective guard and align the slots with the groove.
- 10. Insert the tabs through the slots and seat in the groove.
- 11. Check that each guard turns freely on the shaft.
- 12. Assemble the shaft.
- 13. Check that the shaft telescopes easily.
- 14. Replace any components that are damaged or worn.
- 15. Install the shaft on the machine.

PARTS DRAWING

AGF Frame Assembly

The Frame Assembly



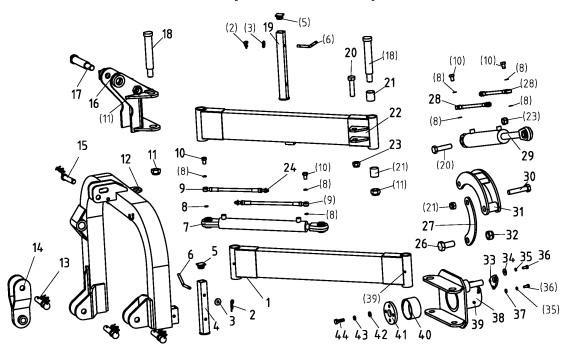
The Frame Assembly AGF							
No.	SYS CODE.	DRAWING NO.	DESCRIPTION	QTY	REMARKS		
1	503010763	DIN985-M12	M12 nut	8			
2	506010057	GB97. 1-12	12 washer	25			
3	801240019	EFGC120. 013	left skid	1			
4	501011126	GB5783-M12X30	M12X30 bolt	8			
5-1	809450001	EFAGF140.015J	(140Model) (L=1402)cover	1			
5-2	809530001	EFAGF160.015J	(160Model) (L=1602)cover	1			
5-3	809460001	EFAGF180.015J	(180Model) (L=1802)cover	1			
6-1	802480092	EFAG140. 019B	(140Model)Blade axle	1			

6-3 802510095 EFAG180.019B (180Model)Blade axle AGF 1	6-2	802490093	EFAG160. 019B	(160Model)Blade axle	1	
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21 506030039 GB93-16 16 washer 8 22 702480125 EFAG140.109 big pulley 1 23 515010004 REACH15-33X80 REACH 15-33X80 sleeve 1 24 802680012 EFAGF140.013 belt cover left half 1 25 501011099 GB5783-M8X20 M8X20 bolt 2 26 506030035 GB93-8 8 washer 2 27 506010055 GB97.1-8 8 washer 2 28 702680007 EFAGF140.108 belt cover protecting plate 1 29 506030037 GB93-12 12 washer 8 30 501011113 GB5783-M10X30 M10X30 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3	19	506060195	GB893. 1-90	90 cir clip	2	
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25 501011099 GB5783-M8X20 M8X20 bolt 2 26 506030035 GB93-8 8 washer 2 27 506010055 GB97.1-8 8 washer 2 28 702680007 EFAGF140.108 belt cover protecting plate 1 29 506030037 GB93-12 12 washer 8 30 501011113 GB5783-M10X30 M10X30 bolt 4 30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3	23	515010004	REACH15-33X80	REACH 15- 33X80 sleeve	1	
26 506030035 GB93-8 8 washer 2 27 506010055 GB97. 1-8 8 washer 2 28 702680007 EFAGF140. 108 belt cover protecting plate 1 29 506030037 GB93-12 12 washer 8 30 501011113 GB5783-M10X30 M10X30 bolt 4 30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97. 1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140. 107 small pulley 1 35 514010004 17X1300 B1300 belt 3	24	802680012	EFAGF140.013	belt cover left half	1	
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28 702680007 EFAGF140.108 plate 1 29 506030037 GB93-12 12 washer 8 30 501011113 GB5783-M10X30 M10X30 bolt 4 30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3	27	506010055	GB97. 1-8	8 washer	2	
29 506030037 GB93-12 12 washer 8 30 501011113 GB5783-M10X30 M10X30 bolt 4 30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3	28	702680007	EFAGF140. 108		1	
30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3	29	506030037	GB93-12		8	
30 501011098 GB5783-M8X16 bolt 4 31 506030036 GB93-10 10 washer 7 32 506010056 GB97.1-10 10 washer 3 33 515010003 REACH15-40X80 REACH 15-40X80 sleeve 1 34 702480123 EFAG140.107 small pulley 1 35 514010004 17X1300 B1300 belt 3						
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35 514010004 17X1300 B1300 belt 3						
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37	501011905	GB5786-		1	
31	501011905	M16X1.5X50	M16X1.5X50 bolt	1	
38	503010137	GB6173-		1	
30	303010137	M16X1.5	M16x1.5 bolt	1	
39	508011473	GB879. 1-4X25	4X22 pin	2	
40-1	702480118	EFAG140. 101	(140Model) shaft for	1	
40-1	702400110	EFAG140. 101	fender	1	
40-2	702490002	EFAG160. 101	(160Model) shaft for	1	
40-2	702490002	EFAG100.101	fender	1	
40-3	702510002	EFAG180. 101	(180Model) shaft for	1	
40 3	702510002	El'AG160. 101	fender	1	
41	702480127	EFAG140. 111	fender	14	
42	506010035	GB96. 1-8	8 washer	4	
43	703400008	FM120.00.199	PTO cover	1	
44	802480145	XH50.003Z.03	gearbox	1	
45	506010037	GB96. 1-12	12 washer	8	
46	501011127	GB5783-M12X35	M12X35 bolt	4	
47	802680104	EFAGF140. 026	gearbox rack	1	
10	500010011	GB1152-JT-		1	
48	509010011	M1OX1	M10X1 connector	1	
49	801240022	EFGC120.014	right skid	1	

■ The Sway Frame Assembly

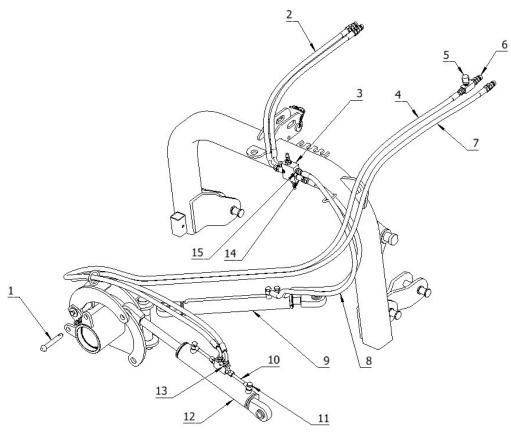
The Sway Frame Assembly



The Sway Frame Assembly							
No.	SYS CODE.	DRAWING NO.	DESCRIPTION	QTY	REMARKS		
1	802680079	EFAGF140.018	swing arm	1			
2	506010037	GB96.1-12	12 washer	2			
3	802680008	EFAGF140.011	brace	1			
4	703140001	MFP120.00.101	rubber cover	2			
5	800920101	EF100.00.111A	D pin	2			
6	802680092	EFAGF140.021	cylinder	1			
7	510015240	JB982-16	16 bronze washer	8			
8	702680119	EFAGF140.020A	oil pipe	1			
9	503010137	GB6173-M16X1.5	M16X1.5 bolt	4			
10	503010749	DIN985-M30X2	M30X2 bolt	5			
11	802680054	EFAGF140.016A	suspension frame	1			
12	706790181	EFAG140.014A-1	pin	3			
13	802680113	EFAGF140.030	hitch	1			
14		1G-180.00.019	pin (not included)	1			
15	802680070	EFAGF140.017	swing base	1			

16	702680005	EFAGF140.106	pin	1	
17	702680001	EFAGF140.101	pin	4	
18	802680010	EFAGF140.012	brace	1	
19	501010438	GB5782-M24X100	M24X100 bolt	3	
20	511050223	SF-2-40X44X50	sleeve	8	
21	802680085	EFAGF140.019	swing arm	1	
22	503010769	DIN985-M24	M24 nut	4	
23	703820055	QUICK-COUPLING- G1/2-G	R1/2"connector	4	
24	501011263	GB5783-M30X70	M30X70 bolt	1	
25	702680006	EFAGF140.107	plate	1	
26	702680094	EFAGF140.023	oil pipe	2	
27	802680095	EFAGF140.024	cylinder	1	
28	501010833	GB5782-M24X120	M24X120 bolt	1	
29	802680109	EFAGF140.027	plate	1	
30	503010771	DIN985-M30	M30 nut	1	
31	702680002	EFAGF140.102	locking plate	1	
32	702680003	EFAGF140.103	washer	1	
33	506030036	GB93-10	10 washer	3	
34	501011113	GB5783-M10X30	M10X30 bolt	3	
35	506010056	GB97.1-10	10 washer	2	
36	809450009	EFAGF140.025J	swing shaft	1	
37	509010009	GB1152-M10X1	M10X1 grease nipple	5	
38	511050224	SF-2-110X115X60	bearing	2	
39	702680004	EFAGF140.105	cover	1	
40	506010058	GB97.1-14	14 washer	4	
41	506030038	GB93-14	14 washer	4	
42	501011142	GB5783-M14X40	M14X40 bolt	4	

■ Cylinder



	Cylinder								
No.	SYS CODE.	DRAWING NO.	DESCRIPTION	QTY	REMARKS				
1	800920138	EF100.00.019A	pin	1					
2	702680118	EFAGF140.022A	(L=2000) oil pipe	2					
3	802710112	HM-ZYF-0	over loading valve set	1					
4	702680133	EFAGF140.023J	(L=3600) oil pipe	1					
5	706590117	FV10-1-10/2-G3/8	(3/8) flow valve	1					
6	703820055	QUICK-COUPLING- G1/2-G	G1/2 coonector	4					
7	702680116	EFAGF140.023A	(L=3600) oil pipe	1					
8	702680119	EFAGF140.020A	(L=1300) oil pipe	2					
9	802680092	EFAGF140.021	cylinder	1					
10	807690035	AGF140.089	(RL-12/NL- 18&12) steel tube	2					
11	501014708	GB3541-M16X1.5	bolt	4					

12	802680095	EFAGF140.024	cylinder	1	
13	702710109	HM-2S01-K8-0	locking valve	1	
14	702710111	LSP-18T-205	joint	2	
15	700250036	1CB-18-06WD	M18X1.5-G3/8	2	

WARRANTY POLICY

This warranty refers to the product listed in this Operation Manual, sold or distributed by Midway Sales or through an authorised dealer. In order to qualify for this warranty, the registration form attached must be completed and returned to Midway Sales at their registered address within 10 days from date of purchase.

The product shown in this operation manual is warranted against defects in workmanship and materials for a period of six (6) months from the date of purchase. In the case of products purchased specifically for agricultural use the warranty shall be extended to a period of twelve (12) months provided that this intended use is made known to the manufacturer/dealer at the time of purchase.

Hydraulic components, including cylinders and controls, are warranted against faulty parts and/ or workmanship for a period of six (6) months commercial use/(12) twelve months agricultural use from the date of delivery of the implement to the' original enduser.

This warranty is limited to faults or defects occurring in the product under normal operating conditions. The replacement or repair of any defective parts, or correction of operating parts under this warranty is made only after Midway Sales or their authorised representatives have examined the unit to their satisfaction. Implements are to be returned to Midway Sales or their authorised dealer, freight forward and return prepaid. The manufacturer shall not be liable for indirect, special or consequential damages arising out of or in connection with the use or performance of the product including damage with respect to economic loss, loss of property, loss of revenue or profits, cost of removal, installation or reinstatement.

This warranty does not extend to cover any products manufactured to the purchaser's specifications, or modifications or repairs by customers or third parties, carried out without the written permission of the manufacturer.

This warranty does not extend to cover parts subject to normal wear such as, but not limited to chains, bearings, seals, fi Iters and blades.

This warranty extends only to the original purchaser and is not transferable. This warranty does not extend to cover damage in transit, damage or failure caused by or

attributed to Acts of God, exceeding the power limits specified in the technical data, abuse, using non-genuine parts, improper or abnormal use by the purchaser, its servants, employees or agents, faulty installation, improper maintenance or any repair other than those provided by the manufacturer or it's duly authorised dealers.

This warranty does not authorise any person to create for it any other obligation or liability in connection with its products.

Other than the warranty hereby expressly given, the manufacturer makes no implied warranty of merchantability or fi tness for purpose in so far as any such implied warranty is deemed to be given under any Commonwealth or State Law, then the manufacturer shall only be liable to the extent expressed in any such law.

PRODUCT IMPROVEMENT

Due to a continual product development program, reserves the right to change models and specifications without notice.

NAME:	
PURCHASED FROM:	
DATE OF PURCHASE:	
MODEL NUMBER:	
SERIAL NUMBER:	

CUSTOMER INFORMATION