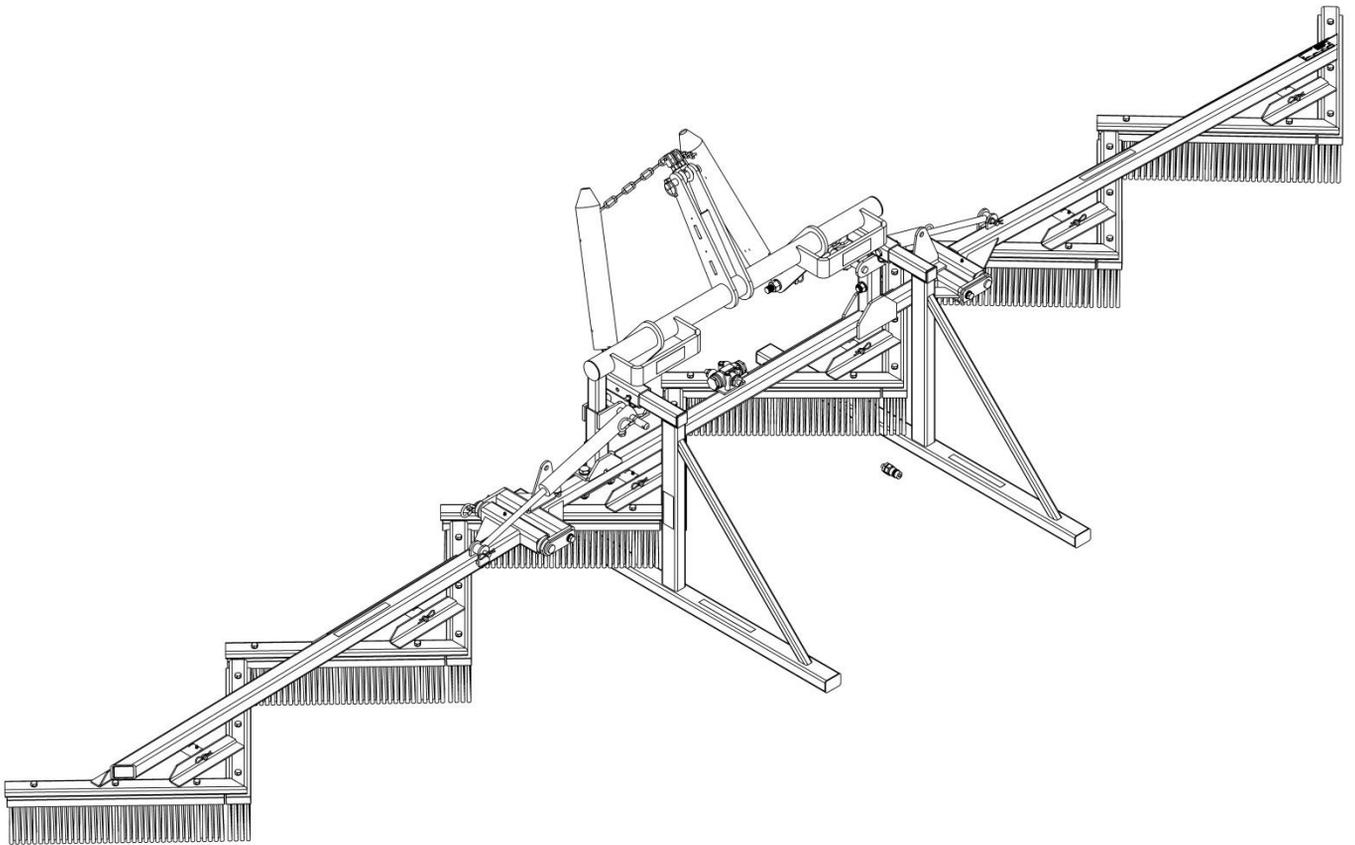


sisis®

FLEXIBRUSH INSTRUCTION MANUAL



CERTIFICATE OF CONFORMITY

FLEXIBRUSH CN Code: 96035000

Manufacturer:- Howardson Ltd, Howardson Works, Kirk Langley, Derby, DE6 4NJ. UK

Owner of Technical Document:- Mr I.D. Howard, Howardson Ltd, Howardson Works Kirk Langley, Derby, DE6 4NJ, UK

Managing Director



Ian Howard

SERIAL NUMBERS



NOTE:-

MAKE A NOTE OF THE SERIAL NUMBER OF YOUR MACHINE AND ALWAYS QUOTE IT IN ANY COMMUNICATION WITH PERSONNEL AT DENNIS.

MACHINE SERIAL NUMBER

INTRODUCTION

The reliability and quality of performance of the **FLEXIBRUSH** depends upon some simple care maintenance carried out regularly. This manual has been prepared to allow the user to carry out all such work.

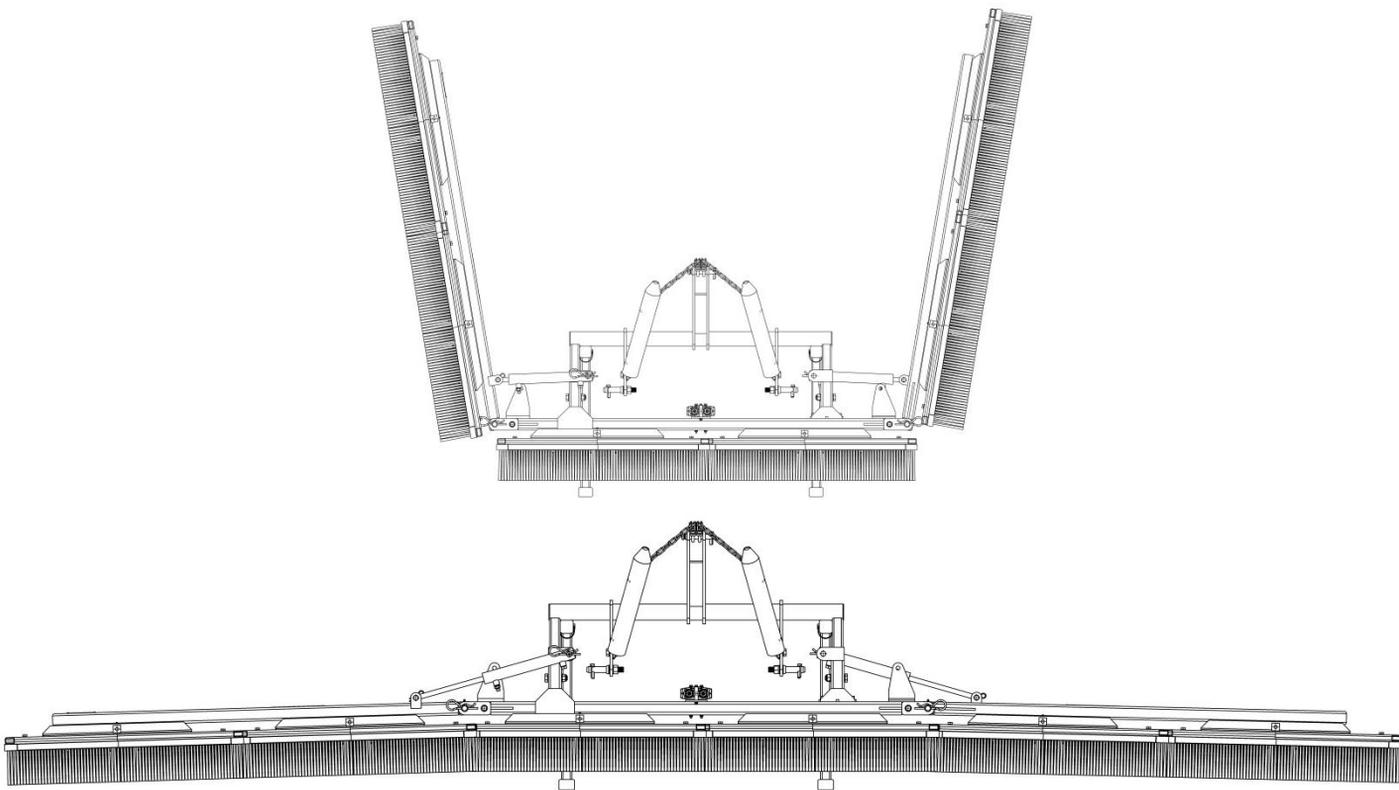
It is advisable to read the instructions carefully. Proper care and attention will enable the machine to give a continuous, satisfactory, and reliable service. Failure to carry out regular lubrication and maintenance as outlined in this manual may render any guarantee or warranty invalid.

In the case of any difficulty, or if further information or advice is required, our Service Department is always at your call. In the interests of speed and accuracy of information please quote the serial numbers of the machine and engine when making enquiries.

For the machine, this is to be found on a plate attached to the side frame. The engine number is stamped on either the crank case or the gear casing facing towards the front of the machine. We suggest you write the numbers on the front page of this book.

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TECHNICAL DATA



MODEL	FLEXIBRUSH
MODEL REFERENCE	FS1033
LENGTH (m)	0.5m
HEIGHT (m)	0.9m
MAIN BODY LENGTH	987
WEIGHT (Kg)	176
WORKING WIDTH (m)	5.37m
FOLDED WIDTH (m)	2.2m
FOLDED HEIGHT (m)	1.8m
TRANSPORT WIDTH (m)	3.2m
NUMBER OF BRUSH SECTIONS	12
TRACTORS REQUIREMENTS	16.5kw



CAUTION:-

READ THE INSTRUCTIONS. We want you to obtain the best performances from this machine. If you have any difficulty in carrying out the following instructions please contact your local SISIS dealer.

NEVER

- Carry out adjustments whilst the machine is running.
- Allow any unauthorised person to handle machines in any way at any time.
- Lift or carry a machine whilst any parts are moving

ALWAYS



- Read the operating instructions carefully and understand the controls before commencing work.
- Be extra careful when using petrol or diesel fuel. Danger – no smoking or naked lights.
- Before starting work always visually check machine for damage or wear to parts.
- Look behind before starting to reverse and watch out for children or pedestrians.
- Switch off the power before making adjustments or repairs and never lift or carry a machine whilst any parts are moving.

OVERVIEW

We want you to obtain the best performance from this machine. If, after reading the following instructions, you have any problems please contact SISIS or your local area manager or SISIS dealer.

DESCRIPTION

The SISIS FLEXIBRUSH has been designed for fast, effective brushing on large areas such as golf fairways and school playing fields etc.

The Flexibrush can be used to brush top dressings into natural or synthetic turf surfaces, to lift the grasses prior to mowing for a better cut, dew dispersal, to give a striped effect on natural turf for improved presentation. The wide working width ensures a fast work rate.

The Flexibrush is 5.37m wide and has 6 sets of independently floating "V" section brushes divided into 3 sections which also float. This allows the brush to follow ground contours and gives better dispersal of top dressing material.

The two outer sections fold for transport and storage.

The Flexibrush is easy to handle and attach.

OPERATION

Remove the top clevis assembly's (HURM216) from the chain

Attach these circllets one on each side of the top link on the tractor.

Connect bottom link arms and top link. Lift brush clear of the ground with the tractor hydraulic and remove stands.

Lift the brush to the maximum on the tractor hydraulics and re-connect the chains to the circllets, which are now on the tractor. (Attach both sides)

Lower the brush to the ground and adjust the check chains on the tractor lift arms. Adjust the top link so that the brush is level with the ground. Ensure that the quick release hydraulic coupling is pushed securely into the female half on the single acting coupling on the tractor.

When on site, before starting the first run, lower the brush to the ground (in float position). Ensure there are no obstacles to the right and left of the brush arms. Switch off the tractor engine.

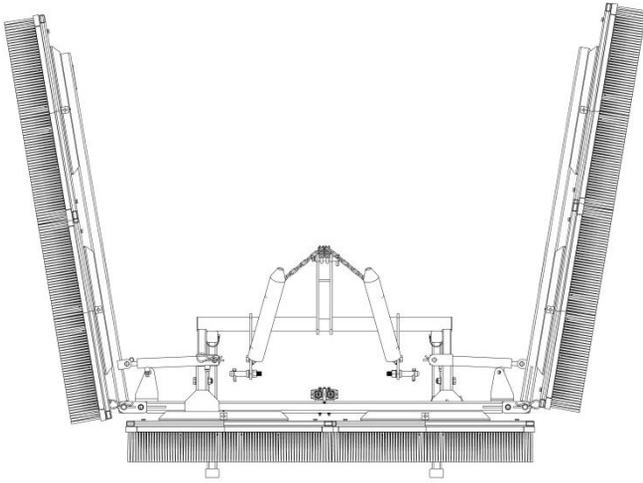
While supporting the brush arm on one side, pull the pins out of the transport brackets and replace through the hydraulic rams with the clips and pins.

By hand lower the brush to the ground, while supporting the weight of the brush arms (Repeat on opposite side)

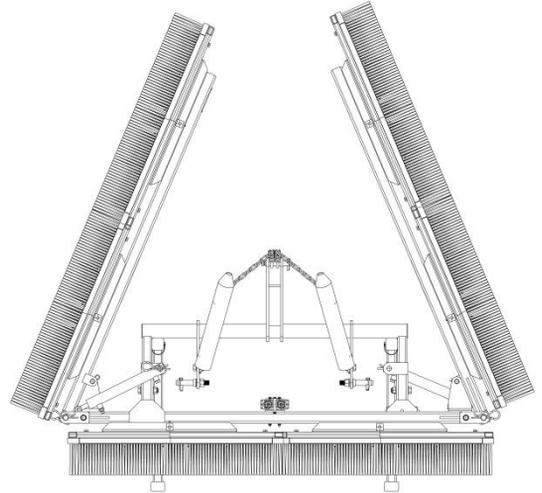
Whilst sitting on the tractor seat with the engine running, operate the single acting lift lever to raise the brushes into the raised working position.

When finished with the Flexibrush, put the arms into the storage position by disconnecting the hydraulic rams. Push the stands into the sockets on the rear of the mounting frame. Lower the hydraulics until the stand sits firmly on the ground and disconnect from the tractor 3 point linkage. (Reverse procedure when reconnecting)

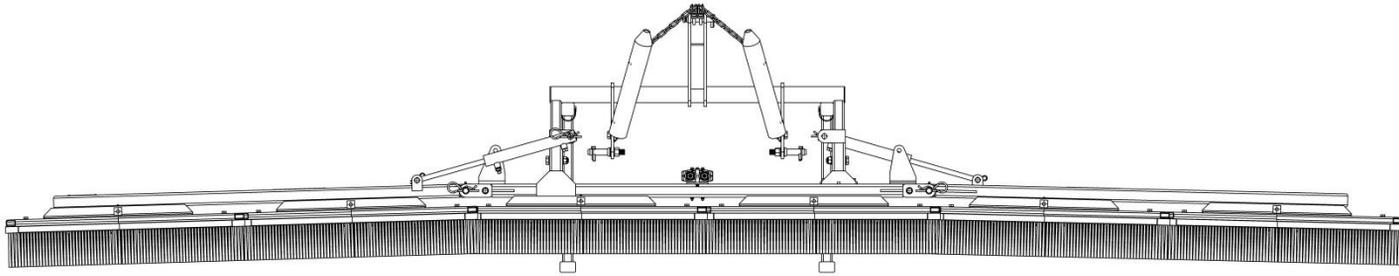
TRANSPORT POSITION



STORAGE POSITION

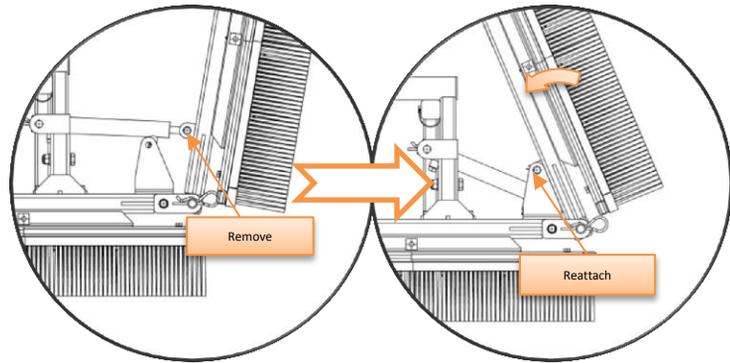


WORKING POSITION



STORAGE POSITION

To achieve the storage position both actuators need to be detached by removing the link pin shown on the right. From the transport position remove the link pin. Lower the brush arm into the storage position and reattached the link pin through the hole lining up from the frame (shown on the right).

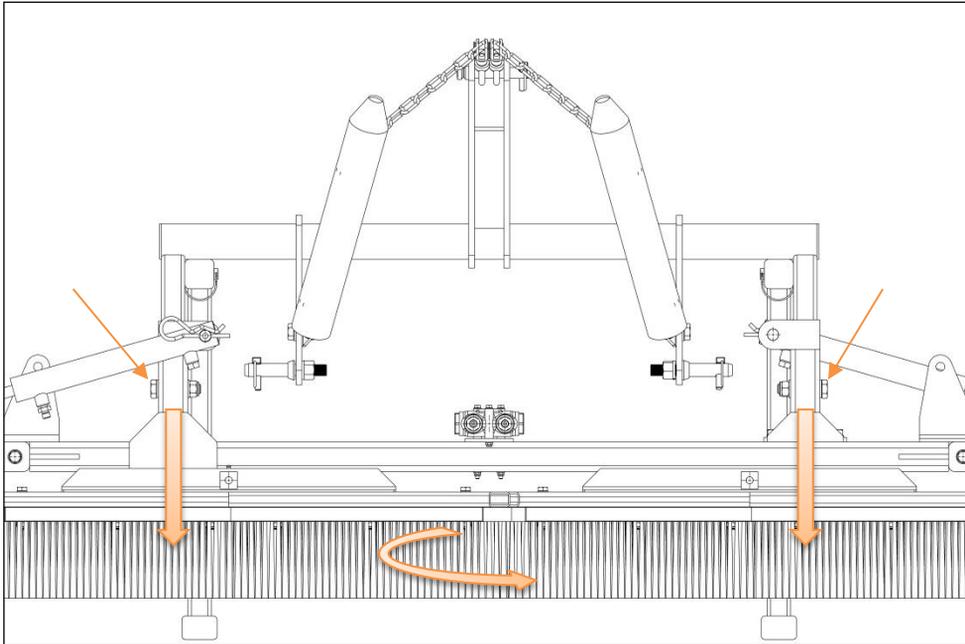


TRANSPORT POSITION

When transporting the flexibrush on the back of a tractor the outer brushes must be in the transport position shown above.

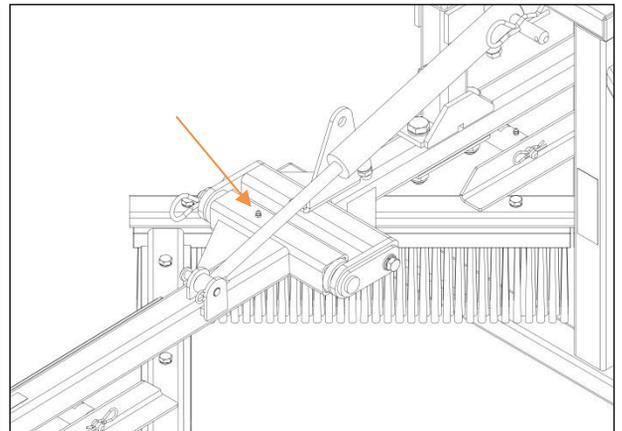
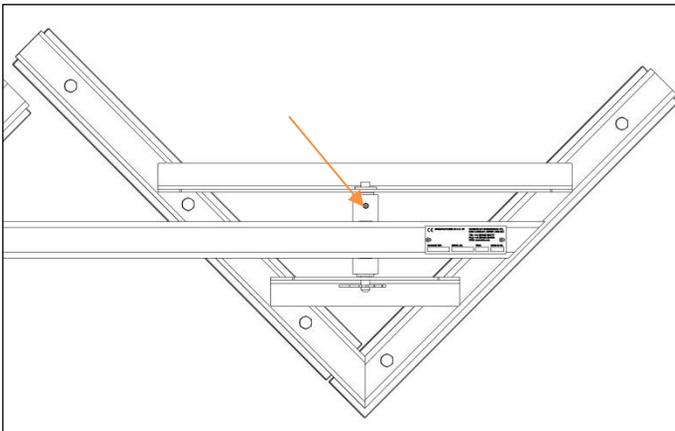
REPLACING WORN BRUSHES

If the brushes become worn in one direction the implement frame may be unbolted (undo the bolts shown below) and turned through 180° to reverse the direction of the brushes.

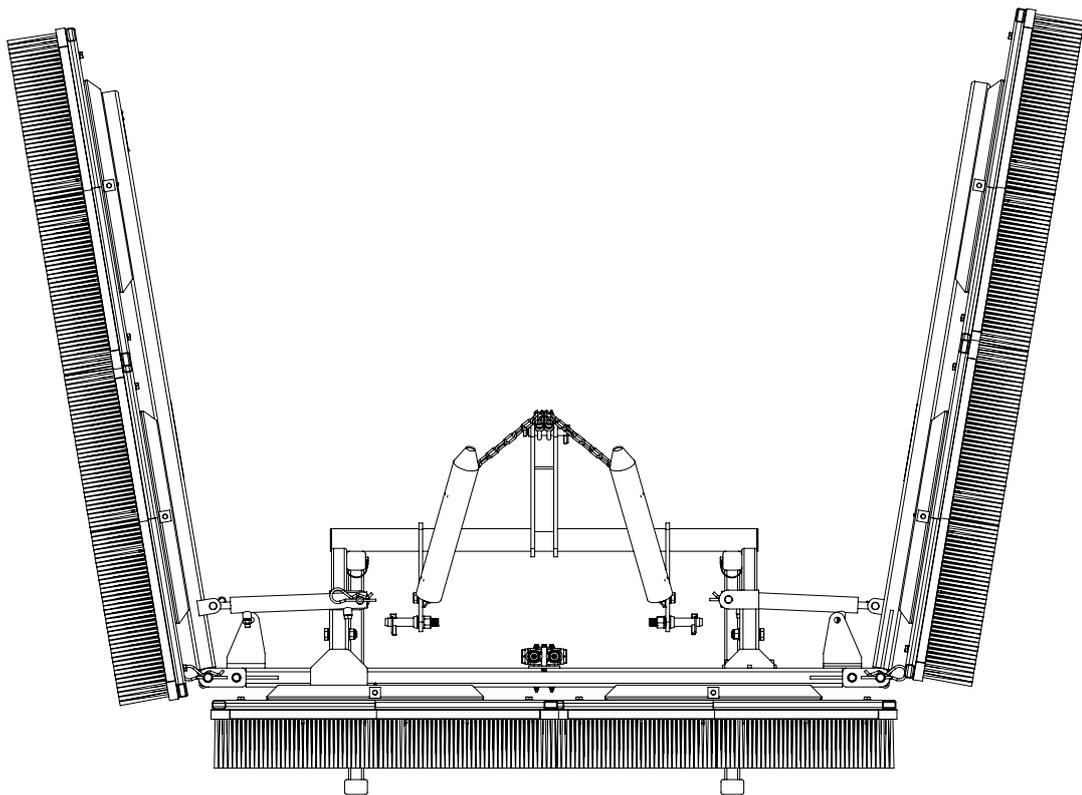
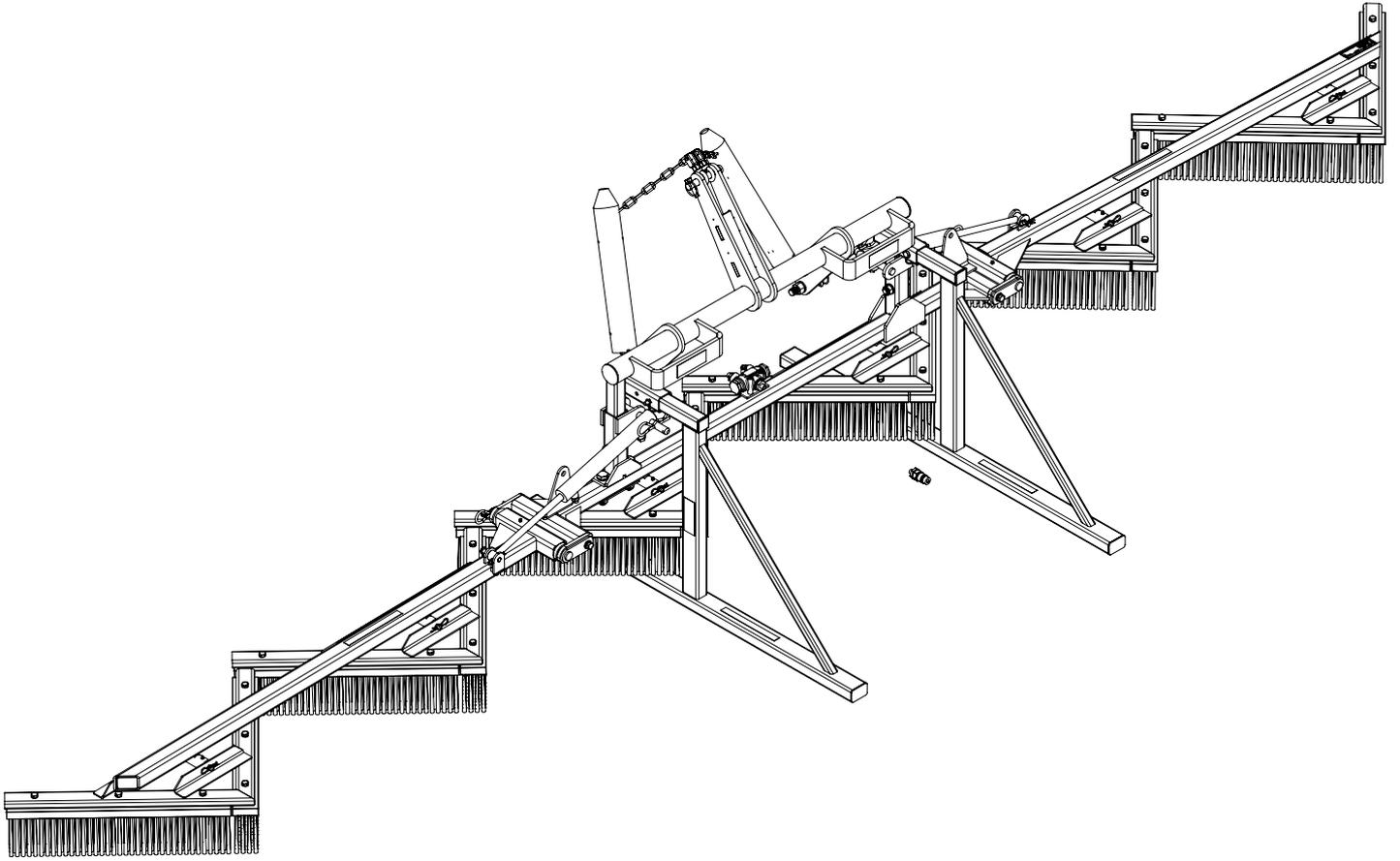


LUBRICATION

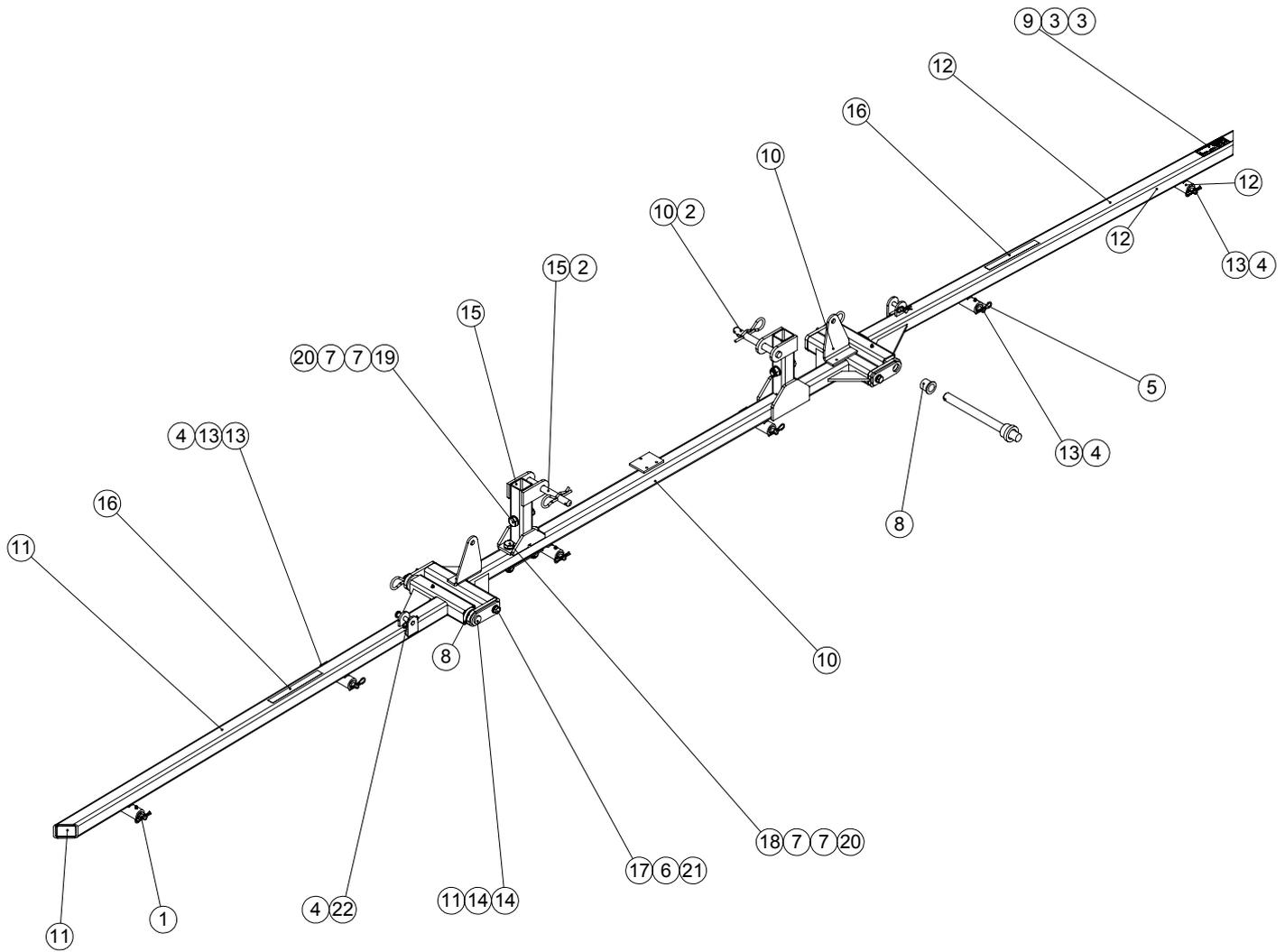
Grease the grease points after use (Shown Below).



FLEXIBRUSH - PARTS BOOK

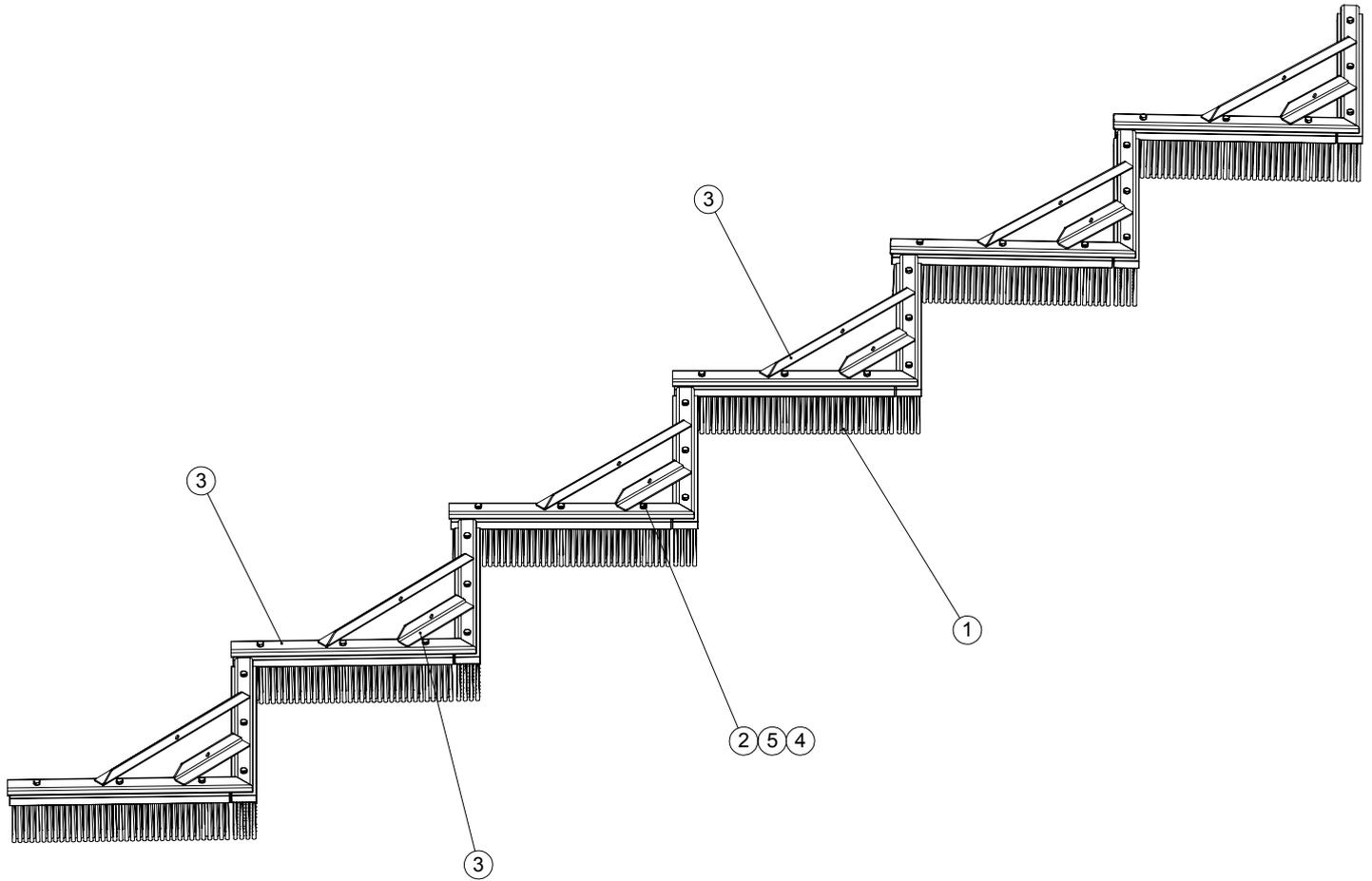


FRAME



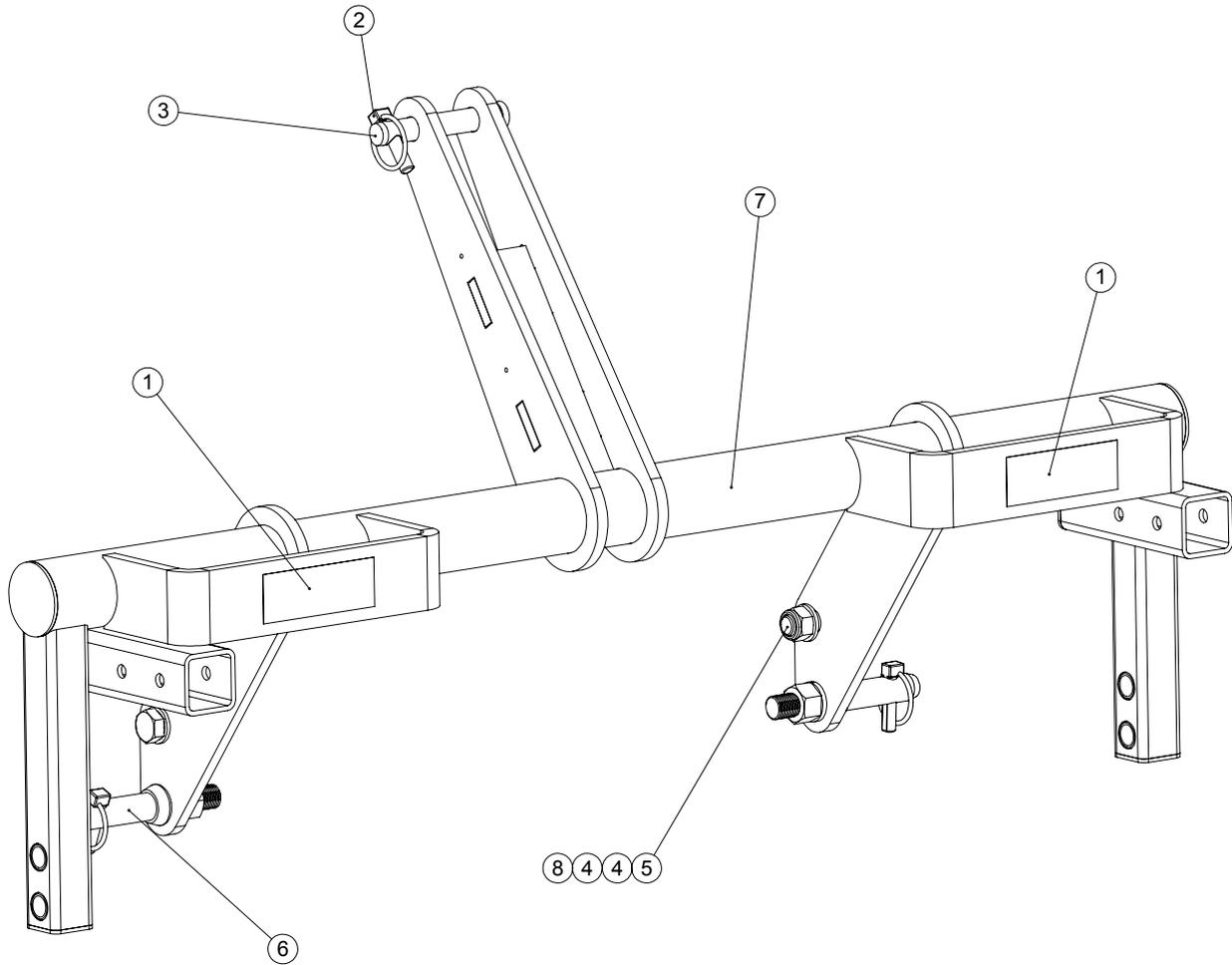
ITEM NO.	PART NUMBER	DESCRIPTION	FRAME/QTY.
1	BA1009_REV1	BUSH AL1218 - 12	12
2	D1619_REV1	CLIP R 6 X 120	4
3	D1871_REV1	RIVET 3.2 X 6	2
4	D1900_REV0	CLIP R (SPAREX REF S9)	8
5	D1947_REV1	GREASE NIPPLE M6	8
6	E1-1065_REV0	SPRING WASHER M12 SQUARE SECTION	4
7	E1-1080_REV0	WASHER M16 FORM A	8
8	F21852_REV0	BUSH AF2532 - 30	4
9	F36000_REV2	SERIAL NO PLATE (SISIS)	1
10	F36618_REV6	FLEXIBRUSH CENTRE FRAME	1
11	F36619_REV2	FLEXIBRUSH L/H ARM	1
12	F36620_REV2	FLEXIBRUSH R/H ARM	1
13	F36622_REV0	PIVOT PIN	6
14	F36623_REV0	PIVOT PIN	2
15	F36624_REV3	FLEXIBRUSH REMOVEABLE SUPPORT	1
16	F36628_REV1	LABEL FLEXIBRUSH	2
17	SP01059_REV0	HEX SET SCREW M12 X 25	4
18	SP01108_REV0	HEX BOLT M16 X 90	2
19	SP01116_REV0	HEX BOLT M16 X 75	2
20	SP02028_REV0	NUT M16 NYLOC (T)	4
21	SP03012_REV0	WASHER M12 FORM A	4
22	SP05017_REV1	CLEVIS PIN 12-60	2

BRUSH HOLDER



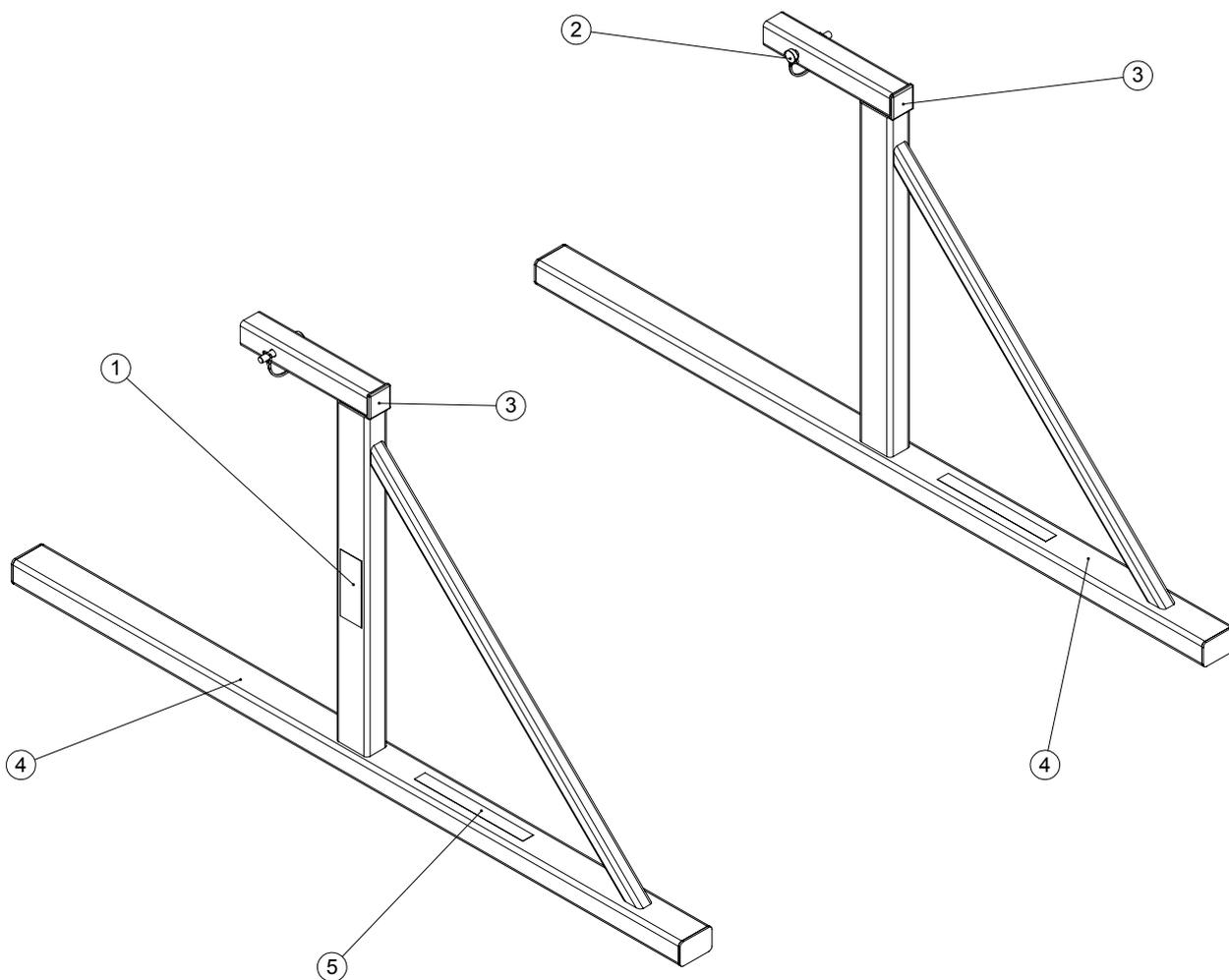
ITEM NO.	PART NUMBER	DESCRIPTION	BRUSH HOLDER/QTY.
1	D1520_REV4	BRUSH 24" BLACK	12
2	E1-1130_REV0	HEX BOLT M10 X 65	36
3	F36621_REV2	FLEXIBRUSH BRUSH FRAME	6
4	SP02008_REV0	NUT M10 NYLOC (T)	36
5	SP03008_REV0	WASHER M8 FORM A	72

TRACTOR MOUNT



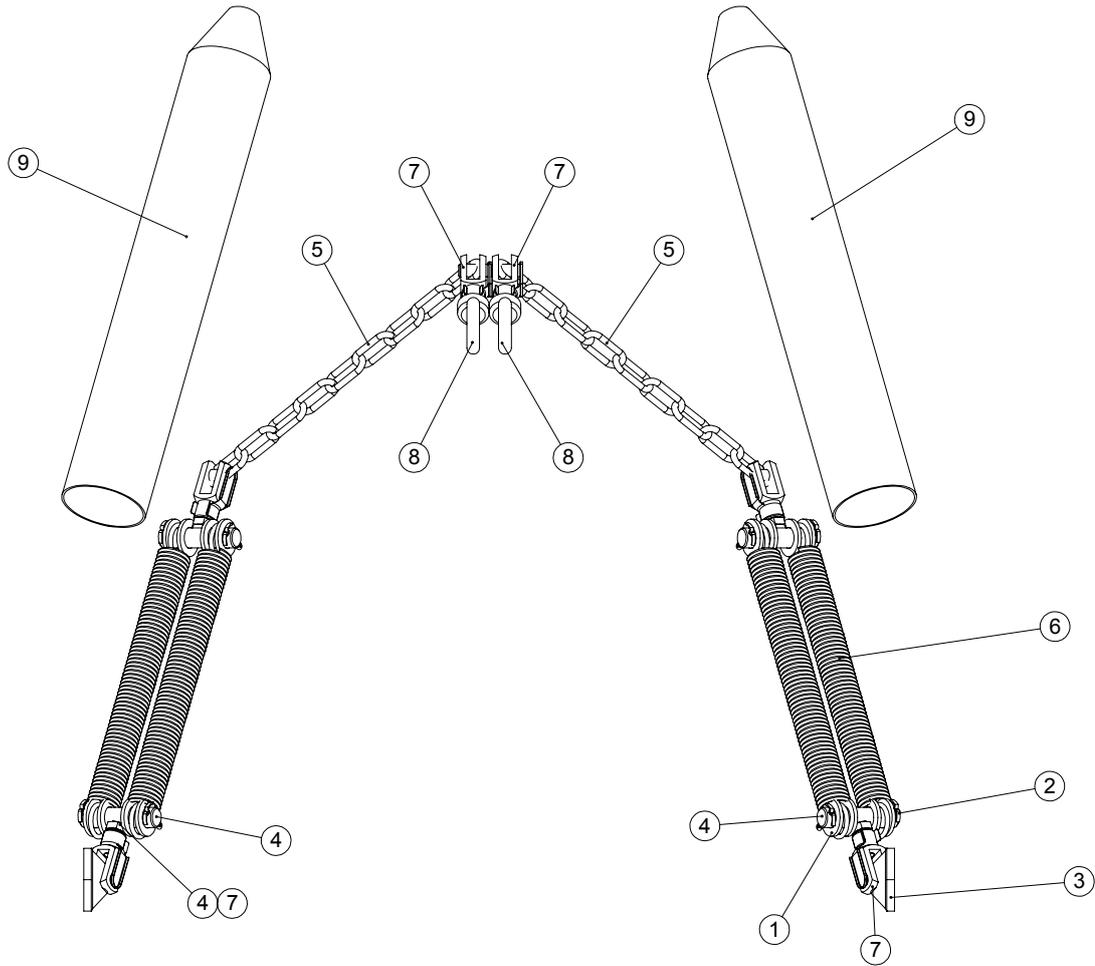
ITEM NO.	PART NUMBER	DESCRIPTION	TRACTOR MOUNT/QTY.
1	D4112_REV1	DECAL	2
2	D8326_REV1	PIN LINCH 7/16"	3
3	D8617_REV1	TOP LINK PIN 3/4"	1
4	E1-1080_REV0	WASHER M16 FORM A	4
5	E1-1175_REV0	HEX SET SCREW M16 X 40	2
6	F20327_REV0	IMPLEMENT MOUNTING PIN	2
7	F32146_REV3	IMP ATT FRAME	1
8	SP02028_REV0	NUT M16 NYLOC (T)	2

STAND



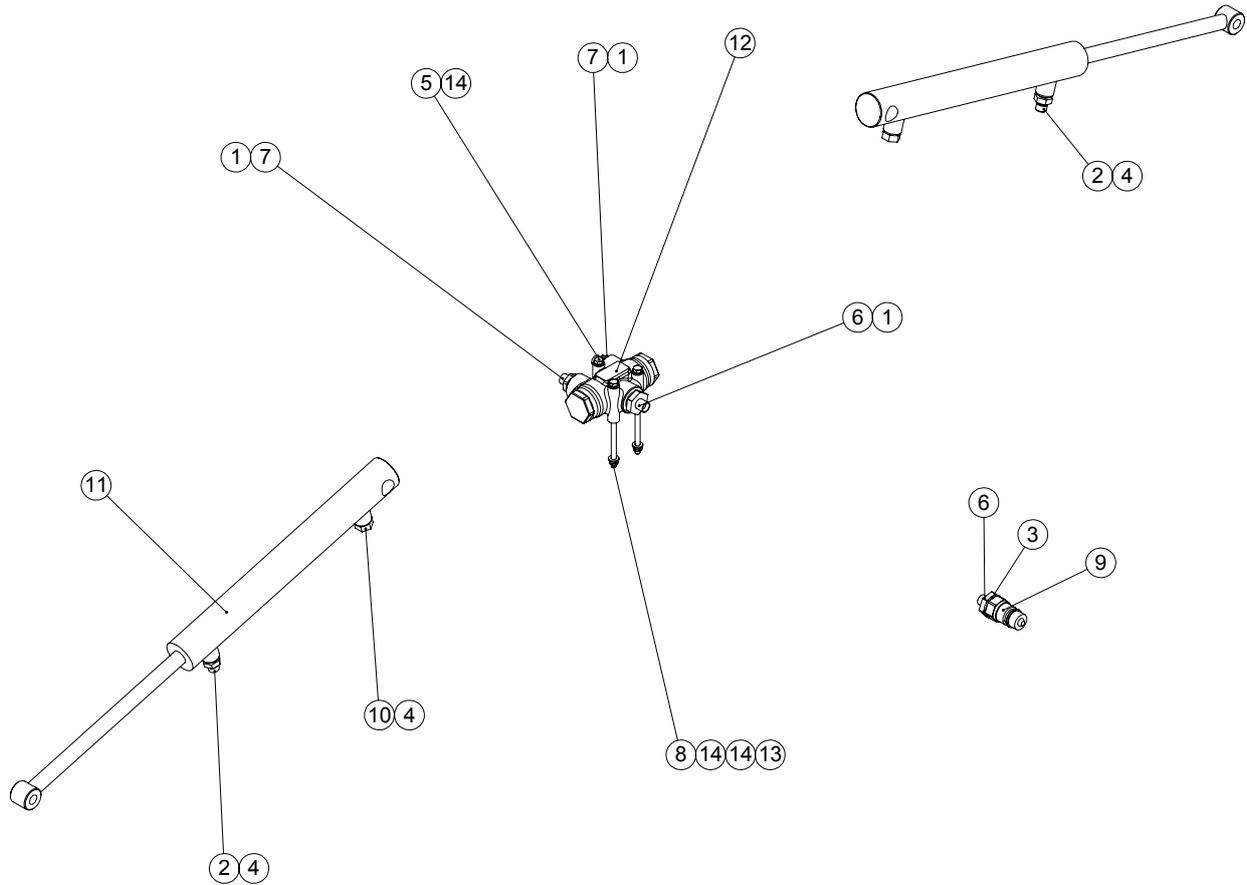
ITEM NO.	PART NUMBER	DESCRIPTION	STAND/QTY.
1	D4112_REV1	DECAL	2
2	D8436_REV1	PIN LINCH DIA 9.2	2
3	D8955_REV1	INSERT 40MM SQUARED	2
4	F36625_REV3	FLEXIBRUSH STAND	2
5	F36628_REV1	LABEL FLEXIBRUSH	2

SPRING SUPPORT SYSTEM



ITEM NO.	PART NUMBER	DESCRIPTION	SPRING SUPPORT SYSTEM/QTY.
1	E1-1080_REV0	WASHER M16 FORM A	16
2	F21970_REV0	SPLIT PIN M4 X 32	8
3	F36778_REV1	SPRING PLATE	2
4	HU60121_REV1	SPRING MOUNT	4
5	HUC5912_REV1	CHAIN	2
6	HUMB001_REV1	SPRING	4
7	HURM216_REV0	CLEVIS ASSY M10 SHORT	6
8	HURM217_REV1	EYE BOLT M10	2
9	HURM225_REV1	SHEATH	2

CHASSIS



ITEM NO.	PART NUMBER	DESCRIPTION	HYDRAULICS/QTY.
1	D8227_REV1	DOWTY SEAL 3/8" BSP (21/32" BORE)	3
2	D8343_REV0	1/4" M/M ADAPTOR BZP	2
3	D8385_REV1	DOWTY SEAL 1/2 INCHES	1
4	D8492_REV1	WASHER BONDED 1/4INCHES BSP	4
5	E1-1056_REV1	HEX BOLT M6 X 65	1
6	F20187_REV1	UNION UNEQUAL 1/4" X 1/2" BSP	2
7	F21980_REV1	RESTRICTOR 1/4INCHESINCHES BSP X 3/8INCHESINCHES BSP M/	2
8	F22334_REV1	HEX BOLT M6 X 120 (GRADE 8.8)	2
9	F22390_REV1	Q/R MALE COUPLING	1
10	F36632_REV1	VENT PLUG	2
11	F36717_REV1	RAM	2
12	HUG6143_REV1	VALVE EQUALISER	1
13	SP02004_REV0	NUT M6 NYLOC	3
14	SP03010_REV0	WASHER M6 FORM A	6

PARTS NOT SHOWN

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
15	F36626	RAM HOSE (CONNECTS 1 TO 2 RIGHT)	1
16	F36627	CONNECTING HOSE (CONNECTS 1 TO 6 CENTRAL)	1
17	F36631	RAM HOSE (CONNECTS 1 TO 2 LEFT)	1



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