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DOUBLE-QUICK

OPERATOR'S MANUAL



INTRODUCTION

Congratulations on purchasing a first-class British designed and manufactured Turf Maintenance System!

To ensure operator safety and obtain maximum service life from this machine it is essential that ALL operators read and thoroughly understand this manual. If at any time there is anything you are unsure about, the manufacturers will be pleased to help.

SAFETY WARNINGS

General

This turf maintenance system is designed to be operated by a tractor of not less than 35HP with a hydraulic lifting capacity of at least 1 tonne. Front weights may be necessary when operating this machine.

All operators must also read and follow all instructions in the operators handbook supplied with the tractor.

Before Starting the Tractor Engine

Check that the brakes are applied, drives are in neutral, guards are in position and intact and bystanders are clear of the machine. Do not run the engine in a building without adequate ventilation.

Operating the Machine

Before moving the machine, check to ensure that all the parts are in good working order, paying particular attention to tyres, steering, brakes and lights. Double check that the attachment is fitted securely to the tractors' 3 point linkage.

Always observe the Highway Code both on and off the roads. Keep alert and aware at all times. Remember that some people are deaf or blind; that children and animals can be unpredictable. Keep travelling speeds low enough for an emergency stop to be effective and safe at all times.

Take special care when reversing and ensure the area behind is clear of obstructions. Remove or avoid obstructions in the working area.

Leaving the Driving Seat

Park the tractor on level ground. Before leaving the driving seat, stop the engine and make sure all moving parts are stationary. Apply brakes and disengage all drives. Remove the ignition key.

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Take extra care when working on slopes

Local undulations and sinkage will change the general slope. Avoid ground conditions which will cause the tractor to slide or roll over. Apply brakes before disengaging tractor gears. Keep the tractor completely under control when disengaging the traction clutch. Remember that the extra weight of the attachment will affect the balance and stability of your tractor.

Removing the Attachment from the Tractor

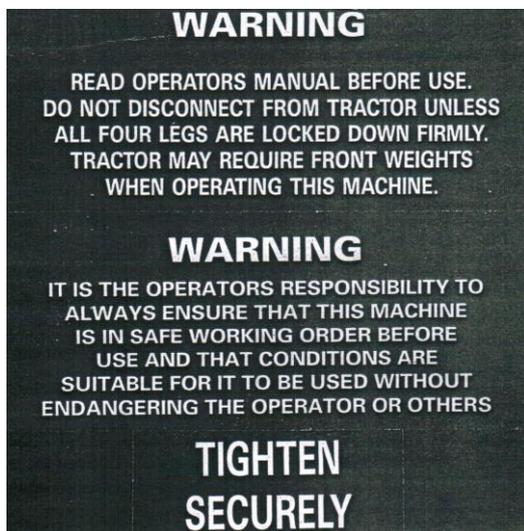
Lock down all four drop legs BEFORE uncoupling the attachment from the 3 point linkage.

REMEMBER

IT IS THE OPERATOR'S RESPONSIBILITY TO ALWAYS ENSURE THAT THIS MACHINE IS IN SAFE WORKING ORDER BEFORE USE AND THAT CONDITIONS ARE SUITABLE FOR IT TO BE USED WITHOUT ENDANGERING THE OPERATOR OR OTHERS.

WARNING DECALS

The following decals are affixed to your Double-Quick which must be obeyed at all times. Replacement decals are available free of charge from the manufacturers.



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LOADING AND UNLOADING THE MACHINE

The machine can be loaded on and off a lorry using a fork lift truck and suitable slings with a SWL of over 1 tonne. Remove the top guard and fit two slings, one for each fork as shown in Figure 1.

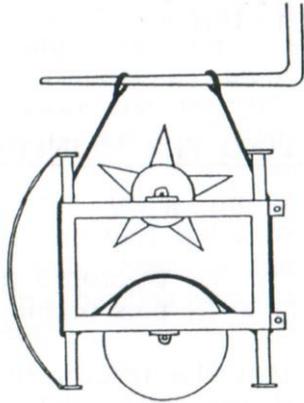


FIG 1

USING THE DOUBLE-QUICK SYSTEM

The system comprises of a mainframe and a range of interchangeable attachments for rolling and aerating.

The slitting attachments are designed to be used working in straight lines. Lower the machine slowly into the ground whilst moving forward. Do not reverse with machine touching the ground otherwise damage may occur. Lift the machine on the 3 point linkage at the end of each pass BEFORE turning and lining up for the next pass.

On no account should you try to make a turn with the slitters lowered into operation as this could result in damage to the machine. Very slight turns may be made when using the roller attachment but sharp turns will result in scuffing the turf.

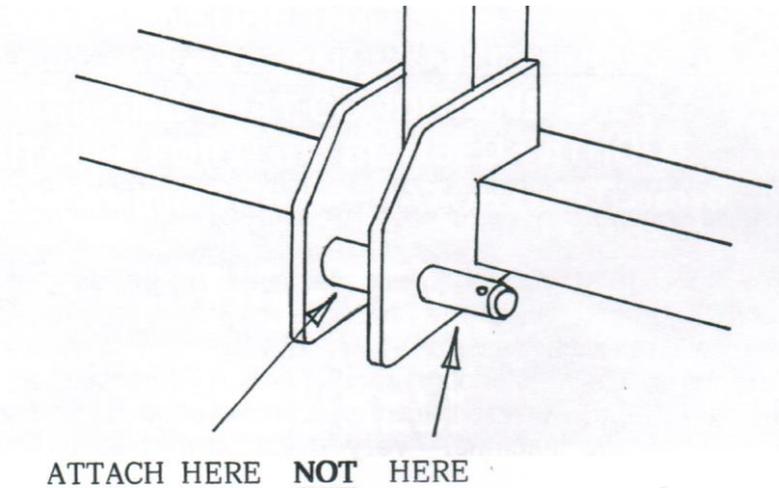
Always work in the same direction throughout a season when slitting. Working at right angles to previous passes can result in severe lifting of the turf.

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Fitting the Mainframe

Couple the mainframe to the tractor 3 point linkage by means of the dual category (1 & 2) pins provided.

NOTE: It is **essential** that the tractor lifting arms are located **between** the plates of the lower linkage point of the main frame. **Do not** hook the lifting arms over the pins on the outside of these plates.



Changing Attachments

To remove an attachment from the mainframe, it should be coupled up to the tractor with the attachment to be removed in the lower position. This may require inversion of the mainframe (see 'Inverting the Mainframe').

Raise and lock, by means of the locking bolts, all four drop legs. With the attachment resting on the ground undo the four bolts holding the two bearing housings to the mainframe. Lift the mainframe off the attachment by means of the tractor 3 point linkage.

Drive away the tractor and reposition if it so that the mainframe is now directly above the next attachment to be fitted. Lower the mainframe and attach the two bearing housings using the four bolts and nuts previously removed.

If the bolt holes in the bearing housing do not quite line up with those in the frame, slacken the two Allen screws in the bearing, reposition it as required, and retighten the screws.

Inverting the Mainframe

In order to use an attachment presently fitting in the upper position, the mainframe must be inverted. To do this, park the tractor on firm, level turf (NOT concrete or Tarmac) with adequate space to manoeuvre and lower the 3 point linkage. Lock the four drop legs **half way** down and remove the top guard.

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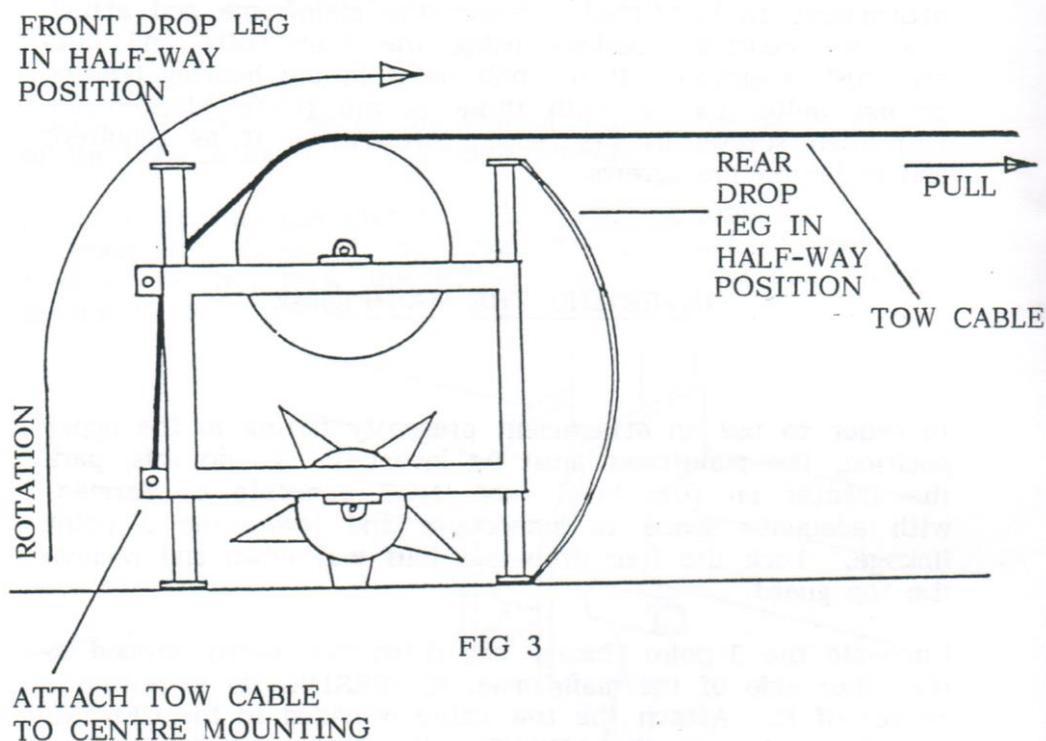
DOUBLE-QUICK

Uncouple the 3 point linkage and drive the tractor around to the other side of the mainframe, REVERSING up to within 2 metres of it. Attach the tow cable provided to the CENTRE mounting point on the LOWER rail of the mainframe (see Figure 3), pass it over the top of the mainframe and attach it to a suitable towing point on the rear of the tractor.

After making sure that there is nobody anywhere near the tractor or mainframe, drive slowly forward to roll the mainframe over through 180°. Remove the tow cable, recouple the tractor to the mainframe, refit the top guard and raise and lock up the droplegs.

WARNING:

THE TOW CABLE PROVIDED MUST NOT BE USED FOR ANY OTHER PURPOSE THAN THAT DESCRIBED ABOVE. NEVER USE IT FOR LIFTING MACHINERY OR TOWING VEHICLES ETC.



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Double-Quick Rollover Procedure



1. Lock all 4 stand legs in the central position.



2. If a rear attachment is fitted, remove it by means of the 4 clevis pins and put it to one side.



3. Remove the top guard.



4. Uncouple the 3 point linkage and allow the frame to tilt over slightly onto the 2 rear stand legs.



5. Drive the tractor round to the other side of the Double-Quick and reverse up to it squarely and centrally.



6. Attach the tow cable provided to the top link position on the tractor.

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7. Pass the tow cable over the top attachment and secure with the top link pin to the lower centre mounting position.



8. Ensure all bystanders keep back and drive the tractor very slowly forward causing the Double-Quick to rotate.



9. As soon as the Double-Quick starts to continue rolling under its own momentum STOP the tractor and allow it to come to rest on its 4 legs by itself.



10. Reverse the tractor and re-attach the 3 point linkage.



11. Replace the top guard.



12. Raise the stand legs and lock up into the working position.

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UNCOUPLING THE MAINFRAME

To uncouple the mainframe from the tractor, first lift the 3 point linkage, then fully lower and securely lock down all four drop legs. Then lower the mainframe and uncouple from the tractor.

NEVER UNCOUPLE THE MAINFRAME FROM THE TRACTOR UNLESS ALL FOUR DROP LEGS ARE SECURELY LOCKED DOWN.

MAINTENANCE

DAILY

Inspect the whole machine paying particular attention to tightness of all nuts and bolts and condition of tines and tow cable. Check for cracks or breakages, particularly around the mounting points on the mainframe and the condition of the linkage connecting pins.

WEEKLY (EVERY 40 HOURS)

Grease bearings using a lithium grease.

ATTACHMENTS

BALLAST ROLLER

A filler plug is fitted to one end of the roller to allow it to be ballasted to increase its weight for heavy rolling. In addition, the roller may be fitted in the upper position to give increased penetration to a slitting attachment beneath. Use only the minimum ballast sufficient to obtain the depth of penetration required. Drain water if there is any possibility of freezing.

A roller scraper is available if problems of mud building up on the roller are encountered.

DEEP SLITTER

This is fitted to the mainframe with the tines angled forward.

FINE TURF SLITTER

The tines on this attachment are symmetrical in design. It can therefore be fitted to the mainframe either way round.

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HOLLOW CORE AERATOR

This is available with either 'open' or 'closed' spoon tines and is used for hollow coring.

REAR ROLLER, RAKE and BRUSH

The rear roller may be used in conjunction with an aerating attachment to firm down any divots. A roller scraper is available if problems of mud building up on the roller are encountered. In addition a scarifying rake and/or Brush may be fitted on to the rear roller carrier allowing all four operations to be carried out simultaneously. The whole assembly attaches to the main frame by means of four clevis pins with R clips and must be detached prior to rolling over the main frame.

DO NOT REVERSE WITH RAKES ON THE GROUND OTHERWISE DAMAGE WILL OCCUR.

WEIGHT TRAY

If only one attachment is purchased with the mainframe, a weight tray is supplied instead of a top guard. This can be ballasted with bags of sand to give increased penetration to the attachment in operation if necessary.

WEIGHTS:

COMPONENT	6FT	8FT
Mainframe	200kg	290kg
Top Guard	20kg	30kg
Weight Tray	57kg	65kg
Deep Slitter	122kg	160kg
Fine Turf Slitter	129kg	170kg
Solid Tiner	200kg	320kg
Hollow Corer	120kg	180kg
Ballast Roller	180kg	200kg
Rear Roller & Carrier	91kg	115kg
Rear Rake	17kg	20kg
Core Recycler	200kg	-----

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PARTS LISTING FOR 6' DOUBLE-QUICK

Item No	Description	Part No	Qty
1	MAIN FRAME	DQ 601	1
2	FRONT LEG	DQ 602c	2
3	FOOT	DQ 603c	2
4	C/S SCREW	DQ 604c	6
5	REAR LEG	DQ 605c	2
6	REAR HOOP	DQ606c	2
7	T-BOLT	DQ 607c	4
8	SHAFT BRG	DQ 608c	A/R
9	BRG SAFTEY HOOP	DQ 609c	A/R
10	BRG BOLT ASSY	DQ 610c	A/R
11	LOWER LINK PIN	DQ 611c	2
12	TOP LINK PIN	DQ 612c	1
13	R-CLIP Large	DQ 613c	3
14	TOP GUARD	DQ 614	1
15	WEIGHT TRAY	DQ 615	1
16	REAR ROLLER CARRIER	DQ 616	1
17	REAR ROLLER	DQ 617	1
18	SCRAPER BAR	DQ 618	1
19	RAKE CARRIER	DQ 619	1
20	CARRIER SUPPORT	DQ 620c	2
21	MOUNTING BOLT-Long	DQ 621c	2
22	MOUNTING BOLT-Short	DQ 622c	6
23	REAR ROLLER BRG	DQ 623c	2
24	ADJUSTING BAR	DQ 624c	1
25	CLEVIS PIN	DQ 625c	5
26	R-CLIP Small	DQ 626c	9
27	ATTACHMENT BAR	DQ 627c	2
28	PARALLEL LINK	DQ 628c	4
29	LOCK NUT	DQ 629c	8
30	BOLT ASSY-Adj Bar	DQ 630c	1

DOUBLE-QUICK

Item No	Description	Part No	Qty
31	SPRING TINE	DQ 631c	16
32	TINE BOLT ASSY	DQ 632c	16
33	BRUSH BAR	DQ 633	1
34	BRUSH MOUNTING BOLT	DQ 634c	8
35	BRUSH	DQ 635	1
36	FINE SLITTER SHAFT	DQ 636	1
37	FINE SLITTER TINE inc blt	DQ 637c	65
38	TINE BOLT ASSY	DQ 638c	A/R
39	DEEP SLITTER SHAFT	DQ 639	1
40	DEEP SLITTER TINE inc bolt	DQ 640c	55
41	UNIVERSAL SHAFT	DQ 641	1
42	HOLLOW CORE DISC ASSY	DQ 642c	4
43	HOLLOW CORE TINE	DQ 643c	72
44	TINE CLAMPS	DQ 644c	144
45	CLAMP BOLT ASSY	DQ 645c	144
46	DISC	DQ 646c	6
47	DISC CLAMP ASSY	DQ 647c	6
48	BALLAST ROLLER	DQ 648	1
49	ROLLER BUNG	DQ 649c	1
50	SOLID TINE DRUM	DQ 650	2
51	SOLID TINE BAR	DQ 651	16
52	SOLID TINE inc clip	DQ 652c	112
53	SHAFT SUPPORT BAR	DQ 653c	1
54	SHAFT SUPPORT BRG	DQ 654c	1
55	BRG MOUNT BOLT	DQ 655c	2
56	SPRING & PIN	DQ 656	16
57	SOLID TINE CLIP	DQ 657	112
58	ROLL OVER CABLE	DQ 658c	1
59			
60			

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PARTS DIAGRAM FOR DOUBLE-QUICK

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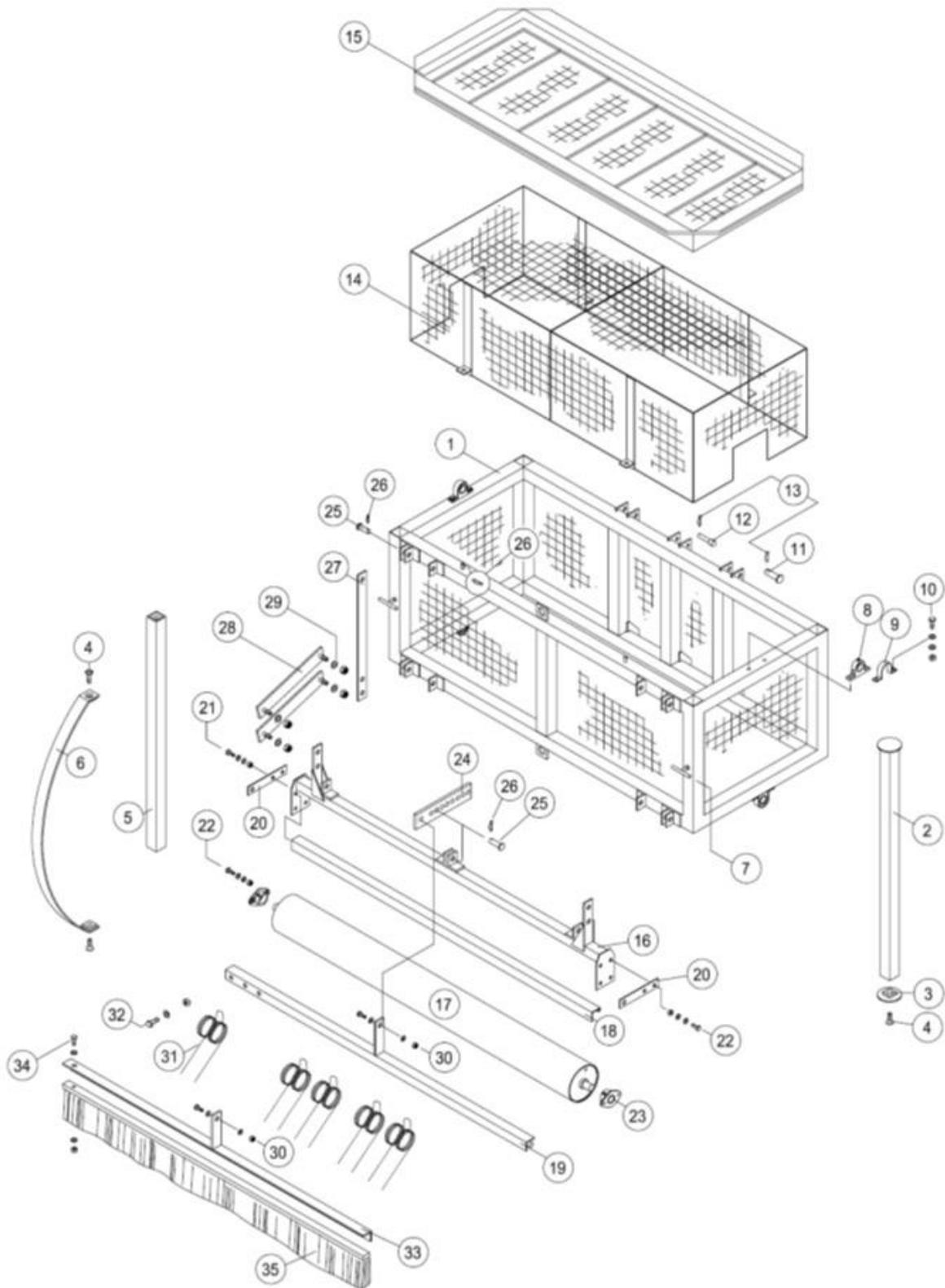
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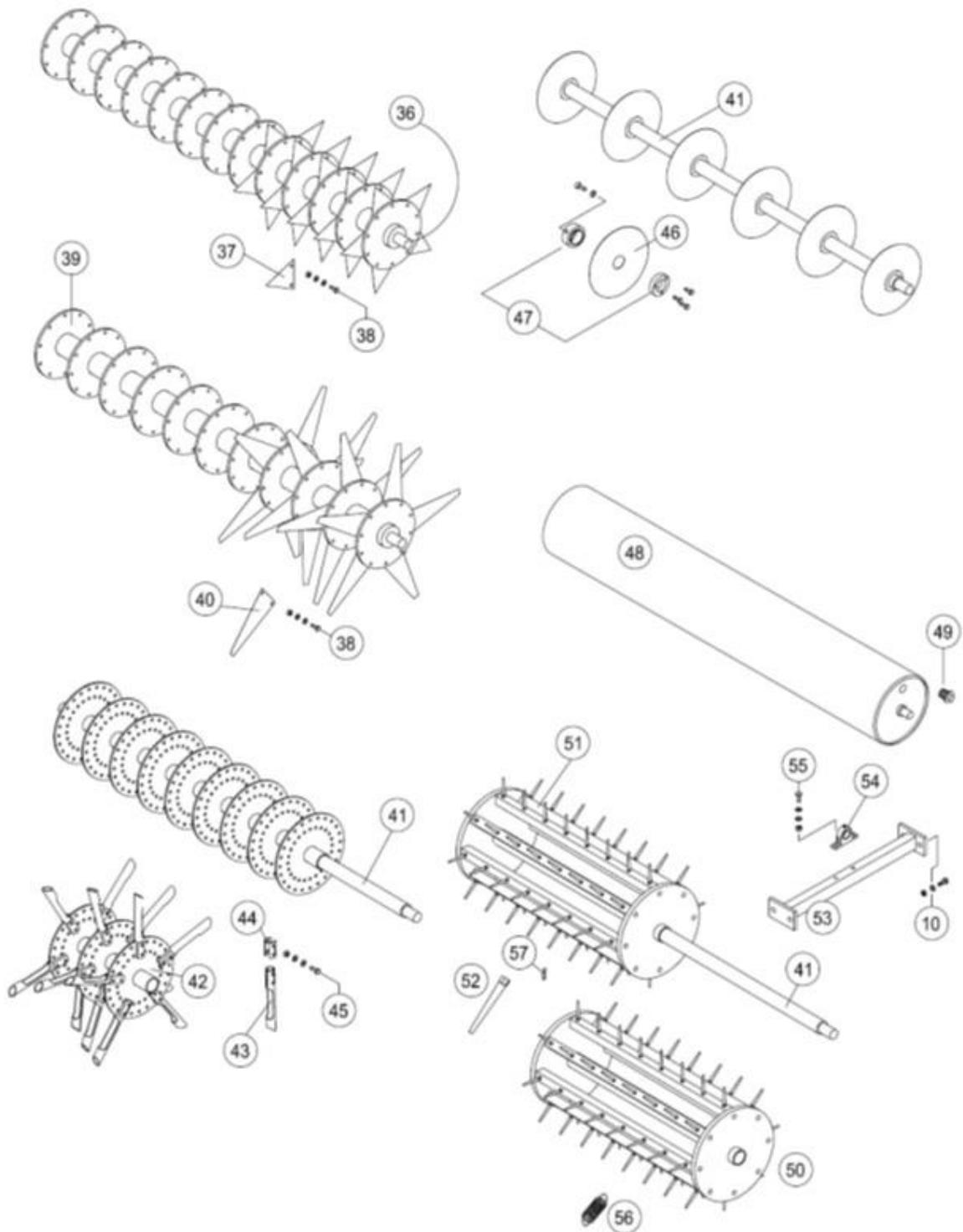


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PARTS LISTING FOR 8' DOUBLE-QUICK

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DOUBLE-QUICK

Item No	Description	Part No	Qty
1	MAIN FRAME	DQ 801	1
2	FRONT LEG	DQ 802c	2
3	FOOT	DQ 803c	2
4	C/S SCREW	DQ 804c	6
5	REAR LEG	DQ 805c	2
6	REAR HOOP	DQ 806c	2
7	T-BOLT	DQ 807c	4
8	SHAFT BRG	DQ 808c	A/R
9	BRG SAFTEY HOOP	DQ 809c	A/R
10	BRG BOLT ASSY	DQ 810c	A/R
11	LOWER LINK PIN	DQ 811c	2
12	TOP LINK PIN	DQ 812c	1
13	R-CLIP Large	DQ 813c	3
14	TOP GUARD	DQ 814	1
15	WEIGHT TRAY	DQ 815	1
16	REAR ROLLER CARRIER	DQ 816	1
17	REAR ROLLER	DQ 817	1
18	SCRAPER BAR	DQ 818	1
19	RAKE CARRIER	DQ 819	1
20	CARRIER SUPPORT	DQ 820c	2
21	MOUNTING BOLT-Long	DQ 821c	2
22	MOUNTING BOLT-Short	DQ 822c	6
23	REAR ROLLER BRG	DQ 823c	2
24	ADJUSTING BAR	DQ 824c	1
25	CLEVIS PIN	DQ 825c	5
26	R-CLIP Small	DQ 826c	9
27	ATTACHMENT BAR	DQ 827c	2
28	PARALLEL LINK	DQ 828c	4
29	LOCK NUT	DQ 829c	8
30	BOLT ASSY-Adj Bar	DQ 830c	1

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32	TINE BOLT ASSY	DQ 832c	16
33	BRUSH BAR	DQ 833	1
34	BRUSH MOUNTING BOLT	DQ 834c	8
35	BRUSH	DQ 835	1
36	FINE SLITTER SHAFT	DQ 836	1
37	FINE SLITTER TINE inc blt	DQ 837c	80
38	TINE BOLT ASSY	DQ 838c	A/R
39	DEEP SLITTER SHAFT	DQ 839	1
40	DEEP SLITTER TINE inc bolt	DQ 840c	70
41	UNIVERSAL SHAFT	DQ 841	1
42	HOLLOW CORE DISC ASSY	DQ 842c	4
43	HOLLOW CORE TINE	DQ 843c	72
44	TINE CLAMPS	DQ 844c	144
45	CLAMP BOLT ASSY	DQ 845c	144
46	DISC	DQ 846c	6
47	DISC CLAMP ASSY	DQ 847c	6
48	BALLAST ROLLER	DQ 848	1
49	ROLLER BUNG	DQ 849c	1
50	SHAFT SUPPORT BAR	DQ 853c	1
51	SHAFT SUPPORT BRG	DQ 854c	1
52	BRG MOUNT BOLT	DQ 855c	2
53	ROLL OVER CABLE	DQ 858c	1

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GUARANTEE

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We guarantee that should any defect in materials or workmanship occur within 24 months of purchase, we will repair or, at our option, replace the defective parts free of charge provided that the fault is reported to us immediately it becomes apparent.

Damage caused by normal wear, misuse or in transit is not covered by this guarantee.

CONTACT US

For further information, support or advice please contact:

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