DC93
DC103

Disc Mower-Conditioner

SERVICE MANUAL

Part number 51586250

1st edition English

February 2019

CASE IH AGRICULTURE

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publication 51586250

Order the manual at mid-west-tech.com >

Contents

INTRODUCTION

Power Take-Off (PTO) 31

[31.201] Power Take-Off (PTO) drive shaft 31.1

[31.214] Secondary Power Take-Off (PTO) 31.2

[31.215] Intermediate Power Take-Off (PTO) 31.3

[31.220] Gearbox 31.4

[31.225] Clutches 31.5

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.410] Header or attachment height system 35.2

[35.415] Header or attachment tilting system 35.3

[35.947] Frame positioning swinging 35.4

Wheels 44

[44.530] Carrying and transport wheels 44.1

Electrical systems 55

[55.100] Harnesses and connectors 55.1

[55.404] External lighting 55.2

Attachments/Headers 58

[58.110] Attachment/Header cutting mechanism 58.1

[58.130] Attachment/Header frame 58.2

Product feeding 60

[60.120] Header drive system 60.1

[60.620] Roll conditioning 60.2

[60.630] Flail conditioning 60.3

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publicat... Order the manual at mid-west-tech.com >

Contents

INTRODUCTION

Foreword - Important notice regarding equipment servicing 3
Safety rules 4
Safety rules - Personal safety 5
Safety rules - Ecology and the environment 11
Torque - Nominal tightening torques for normal assembly 12
Torque - Standard torque data for hydraulic connections 17
Basic instructions - Shop and assembly 24
General specification 26
General specification (*) 28
Capacities 30
Product identification 31
Product identification - Machine orientation 32

(*) See content for specific models

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publicat... Order the manual at mid-west-tech.com >

General specification

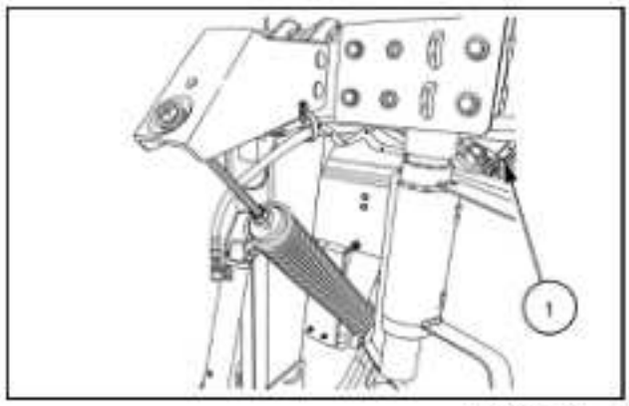
DC103

	DC103	
	Roll	**Flail**
Header		
Cutting width	**3160 mm (10 ft 4 in)**	
Windrow width	**914 – 2134 mm (36 – 84 in)**	
Flotation	Spring floated, vertical and radial path	
Header lift mechanism	Hydraulic (master-slave system)	
Cutterbar		
Type	Modular	
Number of discs	8	
Knives per disc	2	
Disc cutting diameter	**500 mm (19.7 in)**	
Disc drive	Bevel gears in sealed modules.	
Disc speed	**3000 RPM**	
Cutting height, approximate	**21 – 60 mm (0.8 – 2.4 in)**	
Conditioner		
Type	Intermeshing rolls	Flails
Drive	4HB V-belt and spur gears	4HB V-belt and bevel gears
Conditioner material	Molded rubber with intermeshing chevron design. Steel ribbed with intermeshing chevron	Cast, hardened steel
Conditioner speed	**635 RPM**	**718 RPM** **1000 RPM** (Optional).
Conditioner length	**2591 mm (102 in)**	
Roll or flail rotor diameter	**264 mm (10.38 in)**	**560 mm (22 in)**
Capacity		
Cutting capacity	**2.5 Ha/hr (6.1 Ac/hr)** at **10 km/h (6 mph)** and **80%** field efficiency	
Maximum speed, field operating	**14 km/h (9 mph)**	
Maximum speed, road transport	**32 km/h (20 mph)** maximum	
Tire specification	11L x 15L 6-ply tubeless agricultural implement tire	9.5L x 14L 6-ply tubeless agricultural implement tire
Tongue swing mechanism	Standard: Hydraulic	
Tilt system	Standard: Hydraulic	

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publicat... Order the manual at mid-west-tech.com >

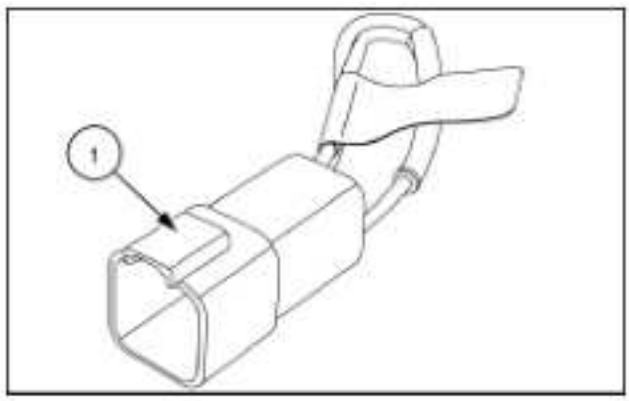
External lighting - Component identification - Jumper harness

The mower-conditioner is shipped from the factory with a loop harness **(1)**. the loop harness connects to the trail frame wiring harness in place of the implement lighting control module.



1

To install the implement lighting control module, you must unplug the loop harness **(1)** from the machine wiring harness.



2

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publicat... Order the manual at mid-west-tech.com >

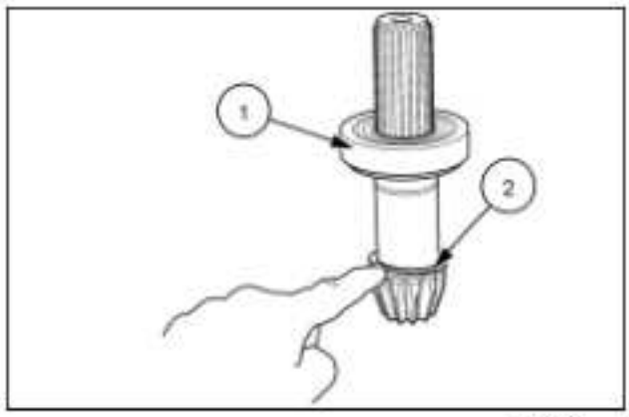
Bevel gearbox - Assemble - Cutterbar shaft

DC93

1. Before you install the inner bearing **(1)**, install the shims **(2)** from removal.

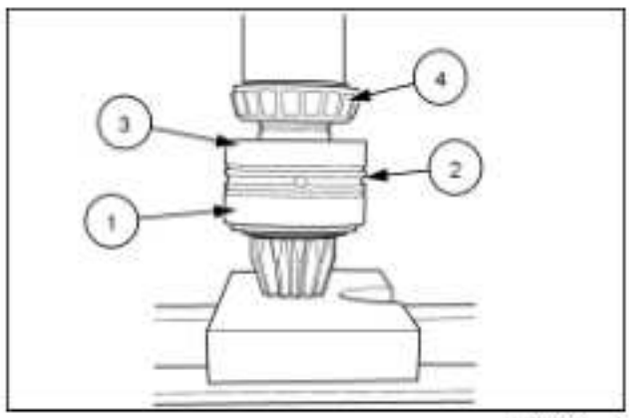
NOTICE: *Make sure that you use the same exact shims from removal, to install all new components. This is crucial to gain the correct clearances.*

NOTE: *Lubricate all seals prior to assembly.*



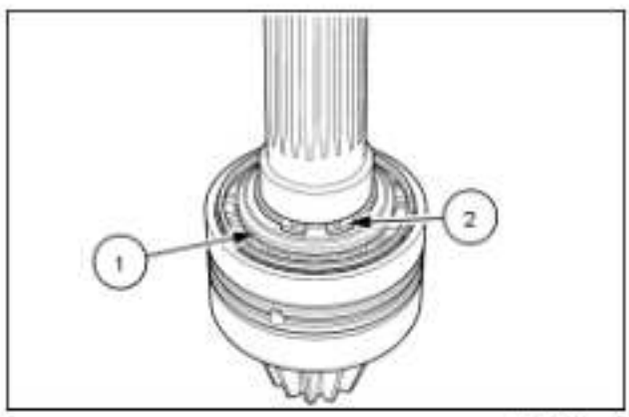
1

2. Install the inner bearing race **(1)** onto the inner bearing.
3. Install the spacer **(2)**.
4. Install the outer bearing race **(3)** onto the spacer **(2)**.
5. Press the outer bearing **(4)** onto the shaft.



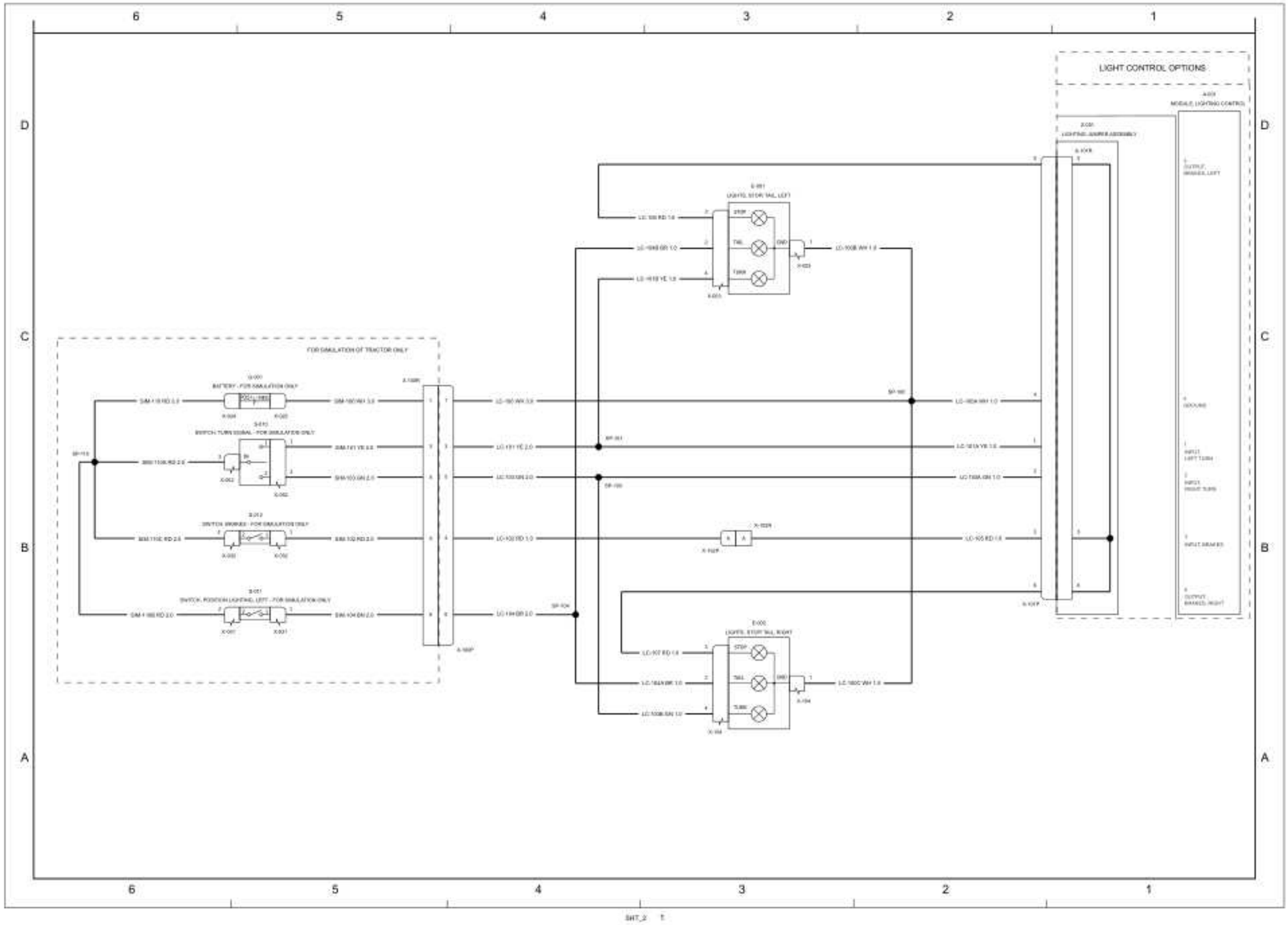
2

6. Install the shims **(1)** from removal, followed by the snap ring **(2)**.



3

MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publicat... Order the manual at mid-west-tech.com >



MidWestTech | Case DC93, DC103 Disc Mower Conditioner Service Manual | Publication 51586250
Order the manual at mid-west-tech.com >