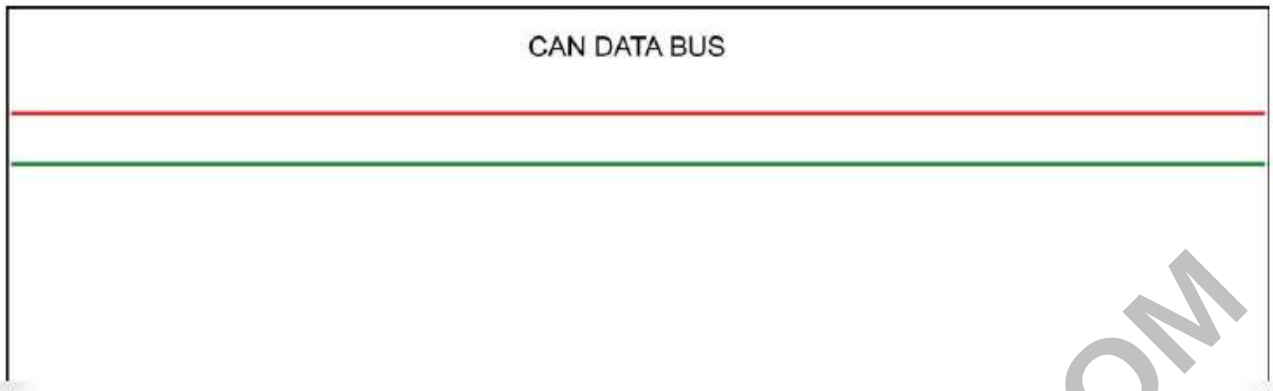
Splice Name	Frame location	Harness	Circuit
R4	29	Roof	Work light B+
R5	63	Roof	Ground
R7	28	Roof	Work light B+
RF2	33	Fender	Ground
SB1	66	Beacon	B+
SB2	66	Beacon	Ground
SH1	69	Shelf	Chassis ground

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com



Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 30 - Roof warning lights

Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Connector **10F**	Cab to main harness
Connector **10M**	Chassis to cab harness
Connector **13F**	Roof harness
Connector **13M**	Cab harness
Connector **104F**	Turn signal, right hand rear
Connector **105F**	Turn signal, right hand rear
Connector **106F**	Turn signal, left hand rear
Connector **107F**	Turn signal, left hand rear

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 39 - Transmission control

Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Connector **10F**	Cab to main harness
Connector **10M**	Chassis to cab harness
Connector **255F**	Transmission controller relay #23
Connector **337A**	Back up alarm
Connector **337B**	Back up alarm
Connector **338F**	Back up alarm harness

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 53

Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Connector **396F**	Fender switch harness, left hand	
Connector **396M**	Fender switch harness, left hand	
Connector **397F**	Fender switch harness, right hand	
Connector **397M**	Fender switch harness, right hand	
Connector **399F**	Remote top link switch, left hand	
		1. Extend 2. Retract

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com



Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Splice Name	Frame location	Harness	Circuit
C34	19	Cab	Unswitched B+
C35	27	Cab	Stop lights
C37	40	Cab	Reverse
C38	65	Cab	Rear wiper
C43	66	Cab	Strobe B+
C45	60	Cab	Air conditioning
C46	60	Cab	Ground
C47	60	Cab	Air conditioning
C48	25	Cab	Transmission speed

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 38 - Transmission control

Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Connector **29M**	Odd solenoid
Connector **30M**	Even solenoid
Connector **31M**	1-2 solenoid
Connector **32M**	3-4 solenoid
Connector **33M**	5-6 solenoid
Connector **34M**	Reverse solenoid

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 53

Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Connector **396F**	Fender switch harness, left hand	
Connector **396M**	Fender switch harness, left hand	
Connector **397F**	Fender switch harness, right hand	
Connector **397M**	Fender switch harness, right hand	
Connector **399F**	Remote top link switch, left hand	
		1. Extend 2. Retract

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wiring harness - Electrical schematic frame 66 - Strobe/beacon

Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Connector **13F**	Roof harness
Connector **13M**	Cab harness
Connector **114F**	Strobe/beacon
Connector **114FF**	Strobe/beacon
Connector **114M**	Strobe/beacon
Connector **129M**	Strobe/beacon switch
Connector **131A**	Cigar lighter
Connector **131B**	Cigar lighter

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

EMERGING MARKET CAB EMERGING MARKET CHASSIS

Blurred on purpose. The manual you buy has this page in full quality.

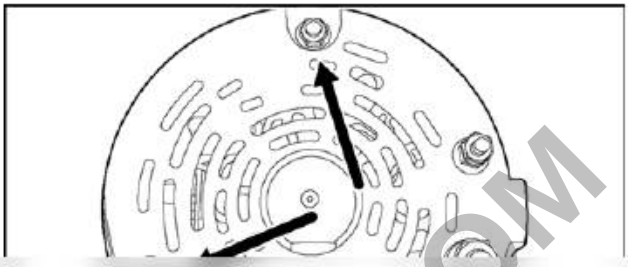
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Alternator - Replace - Regulator

Low torque wrenches – **0.6 - 5 Nm** (**5 - 44 lb in**) – and soapy water are required for this procedure.

1. Remove the two nuts and washers securing the cover to the alternator.



PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Fuse and relay box - Problem solving - Power distribution

OPERATION

The power distribution circuits are:

1. unswitched power,
   - Unswitched power is available at all times. The battery positive terminal is connected to the unswitched power bus from which all unswitched power circuits are energized.
   - Power is available to all of the following fuses 7, 8, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 32, 42, and 53 regardless of the ignition switch position. If the tractor is equipped with ISO11783, fuses 327 and 328 are also

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Alternator - Testing - Charging system output

N°	Test Point	Expected Result	Other Result (Possible Cause)
1	**Condition** Put the transmission in Park. Start the engine and set at **1000 RPM**. **Check** Measure voltage at the battery.	**Result** **12.8 - 14.5 V**. **Action** Charging system is operating properly.	**Result** High resistance between battery and B+ terminal at the alternator. **Action** Go to Step 2.
2	**Check** Measure voltage: place the negative lead of the multimeter on the battery positive (+) post and the positive	**Result** Less than **0.4 V**. **Action** Go to Step 3.	**Result** High resistance between battery and B+ terminal at the alternator. **Action**

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Electrical schematic frame 10 - Splices 411
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 12 - Relays 415
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 13 - CAN data bus 416
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 14 - CAN data bus 418
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 15 - CAN data bus 420
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 16 - CAN data bus 422
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 17 - CAN data bus 424
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 18 - CAN data bus 426
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 19 Charging and starting system 428
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 20 - Cab and controller power 430
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 21 432
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 22 434
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 23 - Power distribution box 436
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 24 - Instrument cluster 438
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 25 - Instrument cluster 440
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 26 442
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 27 - Front hitch and egress lamps 444
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 28 - Optional work lamps 446
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 29 - Standard front work lamps 448
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

Electrical schematic frame 30 - Roof warning lights 450
Magnum 215 [Z7Rx05001 - Z8Rx06000] NA, Magnum 245 [Z7Rx05001 - Z8Rx06000] NA, Magnum 305 [Z7Rx05001 - Z8Rx06000] NA, Magnum 335 [Z7Rx05001 - Z8Rx06000] NA

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Electrical schematic frame 71 - ISO11783 700
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 72 - ISO11783 exterior 702
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 73 - Cab interior autoguidance 704
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 74 - Cab interior autoguidance 706
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 75 - Cab interior autoguidance 708
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 76 - Cab interior autoguidance 710
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 77 - Outside autoguidance 712
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 78 - Outside autoguidance 714
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 79 - Emerging market cab 716
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 80 - Emerging market chassis and engine 718
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 81 - Emerging market power distribution 720
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 82 - Secondary CAN bus 722
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 83 724
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 84 726
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

Electrical schematic frame 86 728
Magnum 215 [Z8Rx06001 -] NA, Magnum 245 [Z8Rx06001 -] NA, Magnum 275 [Z8Rx06001 -] NA, Magnum 305 [Z8Rx06001 -] NA, Magnum 335 [Z8Rx06001 -] NA

SERVICE

Alternator

Replace - Regulator 730

Battery

Disconnect 735

Connect 736

DIAGNOSTIC

Fuse and relay box

Problem solving - Power distribution 737

Relay - Testing - Cab power relays 737

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

DISTRIBUTION SYSTEMS - A

LIGHTING SYSTEM - 40.A

Magnum 215
Magnum 245
Magnum 275
Magnum 305
Magnum 335

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Index

DISTRIBUTION SYSTEMS - A

LIGHTING SYSTEM - 40.A

Dome light - Testing 16
Flasher unit - Testing 18
Front work light Switch - Testing 10
Head light Switch - Testing - Universal switch 6
LIGHTING SYSTEM - Problem solving 3
LIGHTING SYSTEM - Problem solving - Interior lighting and horn 5
Map light - Testing 17
Rear work light Switch - Testing 12
Side work light Switch - Testing 14
Turn/hazard light - Testing - Self-cancel switch 7
Turn/hazard light Turn switch - Testing - Universal switch 7

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 394 pages

The full manual includes:

- All 394 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case Magnum 215, Magnum 245, Magnum 275, Magnum 305, Magnum 335 Service Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual