

---

# TC29D, TC33D REPAIR MANUAL

## COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION .....	2
SECTION 10 - ENGINE .....	3
SECTION 18 - CLUTCHES .....	7
SECTION 21 - GEAR TRANSMISSION .....	8
SECTION 25 - FWD AXLE .....	9
SECTION 27 - DIFFERENTIAL, REAR AXLE .....	11
SECTION 29 - HYDROSTATIC TRANSMISSION .....	11
SECTION 31 - POWER TAKE-OFF SYSTEMS .....	14
SECTION 33 - BRAKES .....	14
SECTION 35 - HYDRAULIC SYSTEM .....	15
SECTION 41 - STEERING SYSTEMS .....	16
SECTION 44 - WHEELS AND TIRES .....	17
SECTION 55 - ELECTRICAL SYSTEM .....	18
SECTION 90 - PLATFORM .....	20

The following pages are the collation of the contents pages from each section and chapter of the TC29D and TC33D Repair manual. Complete Repair part # 87036756

The sections used through out all New Holland product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the TC29D and TC33D Tractors.

---

# SECTION 00 - GENERAL INFORMATION

BOOK 1 - 87036757

## Chapter 1 - General Information

### CONTENTS

Section	Description	Page
	Personal Safety .....	2
	Machine Safety .....	2
	Safety .....	3
	Precautionary Statements .....	3
	Servicing the Tractor .....	3
	Operating the Tractor .....	4
	Driving the Tractor .....	4
	Operating the PTO .....	5
	Diesel Fuel .....	5
	Safety Frame (ROPS) .....	5
	Safety Decals .....	6
	Instruction Decals .....	7
	Ecology and the Environment .....	11
	Specifications .....	13
00 400	Lubrication and Maintenance .....	24
	Lubrication .....	24
	Recommended Lubricants and Coolants .....	24
	Liquid Ballast (Optional) .....	25
	Tire Pressure .....	25

---

# SECTION 10 - ENGINE

BOOK 1 - 87036757

## Chapter 1 - Engine Systems

### CONTENTS

Section	Description	Page
	General Information . . . . .	3
	Description and Operation . . . . .	3
	Cylinder Head and Valve Train Components . . . . .	4
	Cylinder Block Assembly . . . . .	4
	Engine Overhaul . . . . .	6
	Engine Disassembly . . . . .	6
	Fuel Injector and Glow Plug Removal . . . . .	7
	Oil Pressure Switch . . . . .	8
	Temperature Sending Switch and Alternator Removal . . . . .	8
	Fan, Water Pump, and External Oil Tube Removal . . . . .	8
	Air Inlet Manifold Removal . . . . .	9
	Valve Cover Removal . . . . .	9
	Rocker Arm Shaft and Support Bracket Removal . . . . .	9
10 101	Cylinder Head Removal . . . . .	10
	Valve Tappet Removal . . . . .	10
	Fuel Shutoff Solenoid Removal . . . . .	10
	Engine Timing Gear Cover, Timing Gears, and Cam Shaft Disassembly, Inspection, Fits, Clearances, and Assembly of Component Assemblies . . . . .	11
10 101	Cylinder Head Disassembly . . . . .	16
	Cylinder Head Inspection and Repair . . . . .	16
	Valve Seats . . . . .	17
	Valves . . . . .	18
	Valve Guides . . . . .	19
	Valve Springs . . . . .	20
	Rocker Arms . . . . .	20
	Push Rods . . . . .	21
	Cylinder Head Assembly . . . . .	22
	Cylinder Block . . . . .	22
10 105	Pistons, Piston Rings, and Connecting Rods Disassembly and Inspection . . . . .	23
	Pistons, Rings, and Connecting Rod Assembly . . . . .	28
10 103	Crankshaft . . . . .	29
	Crankshaft Bearing (Bushing) Inspection . . . . .	30
	Crankshaft Bearing (Bushing) Replacement . . . . .	31
	Crankshaft Main Bearing Assembly . . . . .	31
	Port Block Removal . . . . .	32
	Port Block Installation . . . . .	32
10 106	Timing Gear . . . . .	32
	Camshaft Disassembly . . . . .	33
	Camshaft Inspection . . . . .	33
	Camshaft Assembly . . . . .	33
10 103	Flywheel . . . . .	34
10 102	Timing Gear Housing . . . . .	34

---

# SECTION 10 - ENGINE

BOOK 1 - 87036757

## Chapter 1 - Engine Systems (Continued)

### CONTENTS

Section	Description	Page
	Engine Reassembly .....	35
10 103	Crankshaft and Bearing Holder Reassembly .....	35
	Rear Oil Seal and Backplate Assembly .....	35
	Flywheel .....	36
10 105	Pistons and Connecting Rods .....	36
	Oil Suction Pipe and Suction Strainer .....	37
	Oil Sump .....	37
10 106	Timing Gear Cover, Timing Gears, and Camshaft Assembly .....	38
10 106	Idle Gear, Oil Pump, and Injection Timing .....	38
	Timing Gear Cover .....	38
	Crankshaft Pulley .....	39
	Fuel Injection Pump Assembly .....	39
	Power Steering Pump .....	39
10 101	Head Gasket Selection .....	40
	Head Gasket Selection Chart .....	40
	Cylinder Head Assembly .....	40
10 106	Valve Clearance Adjustment .....	41
	Valve Cover .....	42
	Water Pump and Cooling Fan Assembly .....	42
	Air Intake Manifold Assembly .....	42
	External Oil Tube .....	43
	Glow Plug and Connector .....	43
	Fuel Injector .....	43
10 218	Fuel Piping .....	44
	Alternator and Temperature Sender Switch .....	44
	Exhaust Manifold .....	44
	Engine Lubrication System .....	45
10 304	Description .....	45
10 206	Oil Filter .....	48
10 304	Oil Pump .....	48
	Engine Oil Pressure Check .....	50
	Oil Pressure Relief Valve .....	51
	Oil Consumption .....	51
	Cooling System .....	52
10 400	Description and Operation .....	52
	Maintenance .....	54
	Coolant .....	54
	Radiator Cap .....	54
10 402	Thermostat .....	55
10 402	Water Pump .....	55
10 414	Cooling Fan .....	55

---

# SECTION 10 - ENGINE

BOOK 1 - 87036757

## Chapter 1 - Engine Systems (Continued)

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Cooling System Overhaul .....	56
10 406	Radiator .....	56
10 402	Water Pump .....	60
10 402	Thermostat .....	62
	Troubleshooting .....	64
	Specifications .....	68
	Metric Bolt Torque Specifications .....	76
	Special Tools .....	77

---

# SECTION 10 - ENGINE

BOOK 1 - 87036757

## Chapter 2 - Fuel System

### CONTENTS

Section	Description	Page
	Specifications .....	2
	Special Tools .....	4
	Troubleshooting .....	5
	Injection Pump .....	10
	Effective Stroke .....	11
	Fuel Variation Mechanism .....	12
	Delivery Valve Assembly .....	13
	Injection Quantity Adjustment Mechanism .....	14
	CTD (Compact Timing Device) Mechanism .....	14
	Pumping Elements .....	16
	Delivery Valves .....	18
10 214	Injection Pump Removal .....	20
	Injection Pump Repair .....	21
	Injection Pump Installation .....	22
10 230	Installation Using Original Pump and Drive Components .....	23
	Installation Using a New Pump or Drive Component .....	24
	Spill-timing Procedure .....	25
	Bleeding the Fuel System .....	29
	Fuel Settings .....	31
	Fuel Screw/High Idle Adjustment .....	31
10 230	Governor - Description and Operation .....	32
	Governor Disassembly .....	34
	Governor Assembly .....	35
10 218	Injectors - Description and Operation .....	37
	Injectors Removal .....	38
	Injectors Disassembly .....	39
	Injectors Assembly and Adjustment .....	39

---

# SECTION 18 - CLUTCHES

BOOK 1 - 87036757

## Chapter 1 - Clutches

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Troubleshooting .....	2
	Specifications .....	3
	Special Tools .....	4
	Single Clutch - Description .....	5
	Single Clutch - General .....	6
	Single Clutch - Operation .....	7
	Free-Play Adjustment .....	8
	Release Lever Height Adjustment .....	11
	Double Clutch - Description .....	13
	Free-Play Adjustment .....	14
	PTO Clutch Adjustment .....	14
	Double Clutch Adjustments .....	17
	Servicing Clutch-Related Components .....	18
	Clutch Pilot Bearing (9 x 3 Transmission Only) .....	18
	Clutch Dimensions .....	19
	Clutch Release Bearing .....	21
	Clutch Linkage Components .....	22
	Clutch Cross Shaft Bushings Assembly .....	23
	Clutch Pedal Bushings Removal .....	24
	Clutch Pedal Bushings Assembly .....	24

---

# SECTION 21 - GEAR TRANSMISSION

BOOK 1 - 87036757

## Chapter 1 - Gear Transmission

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Description of Operation .....	2
	Powerflow .....	4
	Overhaul .....	9
	Separating the Tractor at Clutch Housing/Engine .....	9
	Main Transmission Disassembly .....	17
	Main Transmission Assembly .....	23
	Attaching the Tractor at Clutch Housing/Engine .....	34
	Specifications .....	42
	General Bolt Torque Specifications .....	43
	Special Tools .....	44



---

# SECTION 25 - FWD AXLE

BOOK 1 - 87036757

## Chapter 1 - Supersteer

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
25 000	Specifications . . . . .	2
	Front to Rear Axle Ratio . . . . .	2
	Special Tools . . . . .	5
	Supersteer, Front Axle, and Sensitrack . . . . .	5
25 100	Description and Operation . . . . .	5
	Automatic Position - Engaged . . . . .	6
	Automatic Position - Disengaged . . . . .	6
	Full Time Front Wheel Drive - Locked Down . . . . .	6
	Supersteer Front Axle . . . . .	7
	Sensitrack Removal . . . . .	9
	Sensitrack Disassembly . . . . .	10
	Sensitrack Assembly . . . . .	11
	Sensitrack Installation . . . . .	12
25 100	Supersteer Axle . . . . .	14
25 108	Reduction Gear - Drop Box Removal . . . . .	18
	Reduction Gear Box Assembly . . . . .	21
	Idler Case Vertical Shimming Procedure . . . . .	23
	Bevel Gear-To-Pinion Backlash Check . . . . .	24
25 102	Front Axle and Differential Disassembly . . . . .	24
	Drive Pinion Disassembly . . . . .	25
	Inspection and Repair . . . . .	25
	Front Axle and Differential Assembly . . . . .	26
	Differential Gear Assembly . . . . .	27
	Axle and Differential Assembly . . . . .	27
	Differential Case Bearing Preload Check and Adjustment . . . . .	28
	Ring Gear-To-Pinion Backlash Check and Adjustment . . . . .	28
	Supersteer Axle Installation . . . . .	31
	Crankshaft Pulley . . . . .	32
	Oscillation Stops Adjustment . . . . .	33
	Steering Stops . . . . .	34

---

## SECTION 25 - FWD AXLE

BOOK 1 - 87036757

### Chapter 2 - Standard FWD Axle

#### CONTENTS

Section	Description	Page
25 000	Specifications .....	2
	Bolt Torque Specifications .....	3
	Troubleshooting .....	4
	Standard Front-Wheel Drive Axle .....	5
25 100	Description and Operation .....	5
	Front Wheel Drive Front Axle Removal .....	7
25 102	Front Axle and Differential Disassembly .....	8
	Drive Pinion Disassembly .....	9
	Inspection and Repair .....	9
	Front Axle and Differential Assembly .....	10
	Differential Gear Assembly .....	11
	Axle and Differential Assembly .....	11
	Assembly Procedure .....	11
	Differential Case Bearing Pre-Load Check and Adjustment .....	12
	Ring Gear-To-Pinion Backlash Check and Adjustment .....	12
	Front Wheel Drive Axle Installation .....	14
	Reduction Gear - Drop Box Disassembly .....	16
	Reduction Gear Box Assembly .....	18
	Idler Case Vertical Shimming Procedure .....	20
	Bevel Gear-To-Pinion Backlash Check .....	21
	Oscillation Stops .....	21
	Steering Stops .....	21

---

## SECTION 27 - DIFFERENTIAL, REAR AXLE

BOOK 2 - 87036758

### Chapter 1 - Differential, Rear Axle

#### CONTENTS

Section	Description	Page
27 000	Introduction .....	2
27 110	Description of Operation .....	3
27 000	Differential Lock .....	4
27 106	Differential Overhaul .....	5
27 126	Rear Axle Overhaul .....	13
	Specifications .....	22
	Bolt Torque Specifications .....	23

## SECTION 29 - HYDROSTATIC TRANSMISSION

BOOK 2 - 87036758

### Chapter 1 - Hydrostatic Transmission

#### CONTENTS

Section	Description	Page
29 000	Specifications .....	3
	Minimum Hardware Tightening Torques .....	4
	Special Tools .....	6
	Troubleshooting .....	7
29 202	Hydrostatic Transmission Model TC29D and TC33D .....	8
	Description and Operation .....	8
29 212	Variable Displacement Pump Operation .....	10
29 212	Fixed Displacement Motor Operation .....	11
	Fluid Flow Neutral Position .....	12
	Fluid Flow Forward Position .....	13
	Fluid Flow Reverse Position .....	14
	Fluid Flow HST Charge Circuit .....	15
	Separating the Tractor Between the Engine and Clutch Housing .....	16
	Removal .....	16
	Installation .....	19

---

# SECTION 29 - HYDROSTATIC TRANSMISSION

BOOK 2 - 87036758

## Chapter 1 - Hydrostatic Transmission (Continued)

### CONTENTS

Section	Description	Page
	Separating the Tractor Between the Clutch Housing, Hydrostatic Transmission, and the Rear Axle Center Housing . . . . .	20
	Hydrostatic Unit Removal . . . . .	20
	Hydrostatic Gearbox Removal . . . . .	21
	Hydrostatic Unit and Gearbox Installation . . . . .	21
	Overhaul . . . . .	22
	Precautions Before HST Disassembly . . . . .	22
29 202	Hydrostatic Pump Disassembly . . . . .	24
	Inspection . . . . .	28
29 130	Port Block . . . . .	34
	Neutral Valve Servicing . . . . .	34
	Charge Pump Relief Valve . . . . .	35
	High Pressure Relief Valve . . . . .	36
	Hydrostatic Pump and Port Block Assembly . . . . .	36
	HST Cooler Check Valve . . . . .	39
	Pressure Tests . . . . .	40
	High Pressure Relief Valve Test . . . . .	40
	Charge Pump Relief Valve Test . . . . .	41
	Hydrostatic Transmission Gearbox, Description and Operation . . . . .	42
29 300	Hydrostatic Transmission Gearbox . . . . .	42
	HST . . . . .	43
	Gearbox Power Flow . . . . .	43
	Overhaul . . . . .	47
	Removal . . . . .	47
	Disassembly . . . . .	47
	Transmission Case Removal . . . . .	48
	PTO Input Shaft Removal . . . . .	48
	Transmission Input Shaft Removal . . . . .	48
	FWD Shift Rod Removal . . . . .	49
	FWD Drive Shaft Removal . . . . .	49
	Rear Main Shaft Removal . . . . .	49
	Range Gear Shifter Rod Removal . . . . .	50

---

# SECTION 29 - HYDROSTATIC TRANSMISSION

BOOK 2 - 87036758

## Chapter 1 - Hydrostatic Transmission (Continued)

### CONTENTS

Section	Description	Page
	Drive Pinion Shaft Removal .....	50
	PTO Countershaft Removal .....	50
	Inspection .....	51
	Assembly .....	52
	Drive Pinion Assembly .....	52
	PTO Countershaft Assembly .....	52
	Range Gear Shifter Rod Assembly .....	52
	Rear Main Shaft Assembly .....	53
	FWD Main Shaft .....	53
	FWD Shift Rod Assembly .....	53
	Transmission Input Shaft Assembly .....	54
	PTO Input Shaft Assembly .....	54
	Transmission Case Assembly .....	54
	Adjustments .....	55
29 200	HST Neutral Adjustment .....	56
	Treadle Forward Stop Adjustment .....	57
	Treadle Rear Stop Adjustment .....	57
	Cruise Control Adjustment .....	57
	HST Neutralizer .....	57

---

## SECTION 31 - POWER TAKE-OFF SYSTEMS

BOOK 2 - 87036758

### Chapter 1 - Power Take-Off Systems

#### CONTENTS

Section	Description	Page
	Live Power Take-Off .....	2
	Power Take-Off Drive - Hydrostatic Transmission .....	3
	Power Take-Off Overhaul - Removal .....	4
	Power Take-Off Output Shaft Removal .....	4
	Power Take-Off Rear Countershaft Removal .....	5
	Power Take-Off Shifter Removal .....	5
	Power Take-Off Shifter Assembly .....	7
	Power Take-Off Rear Countershaft Assembly .....	8
	Power Take-Off Center Countershaft Assembly .....	9
	Power Take-Off Output Shaft Assembly .....	10
	Mid-Mount Power Take-Off Description and Operation .....	11
	Mid-Mount Power Take-Off Overhaul .....	11
	Mid-Mount PTO Countershaft Removal .....	12
	Mid-Mount PTO Shifter Arm Removal .....	12
	Mid-Mount PTO Gearbox Disassembly .....	13
	Mid-Mount PTO Gearbox Assembly .....	14
	Mid-Mount PTO Shifter Arm Assembly .....	15
	Mid-Mount PTO Countershaft Assembly .....	16
	Rear PTO Components Assembly .....	16
	Specifications .....	17

## SECTION 33 - BRAKES

BOOK 2 - 87036758

### Chapter 1 - Brakes

#### CONTENTS

Section	Description	Page
	Description of Operation .....	2
33 120	Brakes .....	2
31 120	Brake Operation .....	3
33 110	Parking Brake .....	4
33 120	Overhaul .....	5
	Brake Adjustment .....	10
	Specifications .....	11

---

# SECTION 35 - HYDRAULIC SYSTEM

BOOK 2 - 87036758

## Chapter 1 - Hydraulic System

### CONTENTS

Section	Description	Page
	Introduction .....	2
	Hydraulic Fluid Filter .....	3
35 080	Combination System Relief-Diverter Valve Manifold Assembly .....	4
35 200	Control Valve Assembly (HPL) .....	5
35 210	Neutral Position—Fluid Flow .....	5
35 210	Raising Position—Fluid Flow .....	6
35 210	Lowering Position—Fluid Flow .....	7
35 200	Bypass Spool—Fluid Flow—Closed Position .....	8
	Bypass Spool—Fluid Flow—Open Position .....	8
35 183	Flow Control Valve .....	9
35 108	Linkage Operation—Single Lever—Position Control .....	9
	Position Control Operation—Neutral Position To Raise .....	10
	Raise Position To Neutral Position .....	10
	Neutral Position To Lowering Position .....	10
35 110	Lift Cylinder .....	11
	Flow Control Valve .....	17
35 200	Hydraulic Control Valve .....	18
35 180	Combination System Relief Valve and Diverter Valve Assembly .....	22
35 124	HPL Linkage Adjustments .....	24
	Control Lever Adjustment .....	24
	Hydraulic Pump and Filter .....	25
	Remote Valves .....	27
	Fluid Flow—Neutral Position—Rear (Single-spool) Remote System .....	30
	Fluid Flow—Remote Cylinder Extending—Rear (Single-spool) Remote System .....	31
	Fluid Flow—Remote Cylinder Retracting—Rear (Single-spool) Remote System .....	32
	Front (Double-spool) Remote Control System .....	33
	Fluid Flow—Bucket Control—Neutral and Lift Control—Neutral .....	33
	Fluid Flow—Bucket Control—Dumping and Lift Control—Neutral .....	34
	Fluid Flow—Bucket Control—Dumping Regen and Lift Control—Neutral .....	35
	Fluid Flow—Bucket Control—Roll Back and Lift Control—Neutral .....	36
	Fluid Flow—Bucket Control—Neutral and Lift Control—Raising .....	37
	Fluid Flow—Bucket Control—Neutral and Lift Control—Lowering .....	38
	Fluid Flow—Bucket Control—Neutral and Lift Control—Float .....	39
35 204	Rear (Single-spool) Remote Valve Removal .....	40
	Rear (Single-spool) Remote Valve Disassembly .....	40
	Rear (Single-spool) Remote Valve Assembly .....	41
	Front (Double-spool) Remote Control Valve Removal .....	42
	Front (Double-spool) Remote Control Valve Disassembly .....	42
	Front (Double-spool) Remote Valve Assembly .....	44
	Relief Valve .....	45
	Troubleshooting .....	46
	Specifications .....	51
	Special Tools .....	52

---

# SECTION 41 - STEERING SYSTEMS

BOOK 2 - 87036758

## Chapter 1 - Power Steering

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Power Steering System .....	2
	Description and Operation .....	2
41 204	Power Steering Control Motor .....	3
41 206	Power Steering Pump .....	5
41 216	Power Steering Cylinder .....	5
41 206	Power Steering Operation .....	6
41 200	Manual Operation .....	9
	Overhaul .....	10
41 204	Steering Control Motor .....	10
	Removal .....	10
	Disassembly .....	11
	Inspection .....	16
	Assembly .....	17
	Installation .....	23
41 216	Steering Cylinder .....	24
	Removal .....	24
	Disassembly .....	24
	Inspection .....	25
	Assembly .....	25
	Installation .....	25
41 206	Power Steering Pump and Reservoir Tank .....	26
	Power Steering Tubes .....	28
	Steering Column Removal and Disassembly .....	29
	Steering Column Assembly and Installation .....	32
	Adjustable Steering Column Operation .....	33
	Troubleshooting .....	39
	Pressure Testing .....	41
	Pump, Steering Motor, and Relief Valve .....	41
	Steering Cylinder Test .....	42
	Steering Stops .....	42
	Specifications .....	43
	Special Tools .....	44
	Bolt Torque Specifications .....	45



---

# SECTION 44 - WHEELS AND TIRES

BOOK 3 - 87036759

## Chapter 1 - Wheels and Tires

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Wheels and Tires .....	2
	FWD Tread Setting .....	2
	Wheel Tread Settings .....	3
	Rear Axle Tread Setting .....	4
	Tractor Weighting .....	4
	Weighting for Stability .....	4
	Weighting Limitations .....	4
	Rear Wheel Weight Installation .....	6
	Liquid Ballast (Optional) .....	7
	Tire Pressure .....	7
	Wheel Nut Torque Specification .....	7

---

# SECTION 55 - ELECTRICAL SYSTEM

BOOK 3 - 87036759

## Chapter 1 - Electrical System

### CONTENTS

Section	Description	Page
	Introduction .....	3
	Component Location and Function .....	3
	Battery and Fuses .....	5
	Fuse Block .....	7
	Main Fuse .....	7
	Electrical System Components—Description and Testing .....	8
	Key Switch .....	8
	Light Switch .....	11
	Hazard Light Switch .....	13
	Turn Signal Switch .....	16
	Transmission Range Safety Switch .....	19
	Rear PTO Safety Switch .....	20
	Mid PTO Safety Switch .....	20
	Cruise Control Brake Release Switch .....	23
	Seat Safety Switch .....	24
	Diodes .....	26
	Relays .....	27
	Hazard Flasher/Turn Signal Control Module .....	30
	Glow Plug Indicator Light Controller .....	37
	Cruise Control Magnet .....	37
	H.S.T. Speed Control (Cruise Control) .....	38
	Glow Plugs .....	40
	Engine Sensors .....	41
	Engine Oil Pressure Sender .....	41
	Engine Coolant Temperature Sender .....	41
	Fuel Level Sender .....	42
	Fuel Shutoff Solenoid .....	43
	Lighting .....	44
	Head Lamp .....	44
	Taillight .....	44
	Flasher Warning Light .....	45
	Rear Work Light .....	46
	Wiring Diagrams .....	47
	Instrument Panel — Component Operation and Servicing .....	128
	Instrument Panel Removal and Disassembly .....	130
	Fuel Gauge Removal .....	130
	Fuel Gauge Testing .....	130
	Temperature Gauge Removal .....	132
	Temperature Gauge Testing .....	132
	Tachometer Removal .....	133
	Tachometer Testing .....	134
	PTO Speed Indicator Adjustment .....	134
	Instrument Lights .....	135

---

# SECTION 55 - ELECTRICAL SYSTEM

BOOK 3 - 87036759

## Chapter 1 - Electrical System (Continued)

### CONTENTS

Section	Description	Page
	Charging System . . . . .	138
	Preliminary Checks and Electrical Tests . . . . .	141
	Alternator Removal . . . . .	142
	Rotor—Inspection . . . . .	145
	Stator—Inspection . . . . .	147
	Rectifier Assembly—Inspection . . . . .	148
	Housing—Inspection . . . . .	149
	Bearing—Inspection . . . . .	149
	Brush, Springs, and Holder—Inspection . . . . .	149
	Bench Check . . . . .	152
	Alternator Installation . . . . .	153
	Alternator Specifications . . . . .	154
	Alternator Troubleshooting . . . . .	155
	Starting System . . . . .	157
	Components . . . . .	157
	Alternator Troubleshooting . . . . .	160
	Removal . . . . .	162
	Disassembly . . . . .	162
	Inspection . . . . .	164
	Electrical Testing . . . . .	168
	Assembly . . . . .	171
	No Load Test . . . . .	174
	Installation . . . . .	174
	Starter Motor Specifications . . . . .	175

---

# SECTION 90 - PLATFORM

BOOK 3 - 87036759

## Chapter 1 - Platform

### CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
90 105	Hood .....	2
90 100	Rear Hood Panels .....	3
90110	Dash Console .....	4
90 120	Seat .....	7
90 114	ROPS .....	17
90 116	Fenders .....	19
90 115	Deck .....	23
	PTO and Range Controls .....	24

**Thanks very much for your reading,  
Want to get more information,  
Please click here, Then get the complete  
manual**

**JustClickHere** 

**NOTE:**

**If there is no response to click on the link above,  
please download the PDF document first, and then  
click on it.**

**Have any questions please write to me:  
[admin@servicemanualperfect.com](mailto:admin@servicemanualperfect.com)**