



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Massey Harris

Massey Ferguson

Service Manual

MF800 Series

Combines

Volume 1 of 3

JENSALES.COM

or Call 800-443-0625

JENSALES

Service Manual

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
MASSEY HARRIS MASSEY FERGUSON OR IT'S SUCCESSORS. MASSEY HARRIS MASSEY FERGUSON AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

MH-S-MF800



MF 800 SERIES COMBINES

CLICK ANYWHERE FOR MORE DETAILS

SERVICE MANUAL

1449 201 M1

TABLE OF CONTENTS

PART 1 — GENERAL INFORMATION

PART 2 — ENGINE

- 2-01 General Information
- 2-02 Engine Removal and Installation
 - 2-02-01 Six-Cylinder Engine Removal and Installation
 - 2-02-02 Eight-Cylinder Engine Removal and Installation
- 2-03 Engine Overhaul
 - 2-03-01 Engine Overhaul — A6.3724, AT6.3544 and AT6.3544C
 - 2-03-02 Engine Overhaul — AV8.540
- 2-04 Lubrication System
 - 2-04-01 Lubrication System — A6.3724, AT6.3544 and AT6.3544CC
 - 2-04-02 Lubrication System — AV8.540
- 2-05 Fuel System
 - 2-05-01 Fuel System — A6.3724, AT6.3544 and AT6.3544CC
 - 2-05-02 Fuel System — AV8.540
- 2-06 Cooling System
 - 2-06-01 Cooling System — A6.3724, AT6.3544 and AT6.3544CC
 - 2-06-02 Cooling System — AV8.540
 - 2-06-03 Rotary Screen and Radiator
- 2-07 Air Intake and Exhaust Systems
 - 2-07-01 AiResearch T-04B Turbocharger
 - 2-07-02 -----Reserved-----
- 2-10 Engine Trouble-Shooting

PART 3 — POWER TRAIN

- 3-01 Engine Output Shaft
- 3-02 Traction Drive
 - 3-02-01 Hydrostatic Pump Traction Drive
 - 3-02-02 Variable-Speed Traction Drive
- 3-03 Traction Clutch
 - 3-03-01 Traction Clutch and Release Bearing Removal/Installation
 - 3-03-02 MF 850 Traction Clutch
 - 3-03-03 MF 860 Traction Clutch
- 3-04 Transmission
 - 3-04-01 Four-Speed Constant Mesh Transmission
 - 3-04-02 Hydrostatic Motor Driven Transmission

CLICK ANYWHERE FOR MORE DETAILS

TABLE OF CONTENTS (CON'T)

PART 4 — HYDRAULICS

- 4-01 General Information
- 4-02 Hydraulic Reservoir and Oil Cooler
 - 4-02-01 Hydraulic Reservoir
 - 4-02-02 Oil Cooler
- 4-03 Hydraulic Pump
- 4-04 Power Steering
- 4-05 Electro-Hydraulic Header Control Valve
- 4-06 Main Control Valve
- 4-07 Hydrostatic Drive System
 - 4-07-01 Operation of Drive Components
 - 4-07-02 Eaton Hydrostatic Pump
 - 4-07-03 Eaton Hydrostatic Motor
 - 4-07-04 Sundstrand Hydrostatic Pump
 - 4-07-05 Sundstrand Hydrostatic Motor
 - 4-07-06 High Pressure Release Valve
- 4-08 Hydraulic Cylinders
- 4-10 Testing and Trouble-Shooting
 - 4-10-01 Hydraulic System Testing
 - 4-10-02 Hydraulic System Trouble-Shooting
 - 4-10-03 Hydrostatic Drive Trouble-Shooting (With Test Gauges)

PART 5 — ELECTRICAL SYSTEM

- 5-01 General Information
- 5-02 Specifications and Wiring Diagrams
- 5-03 Batteries
- 5-04 Charging System
- 5-05 Starting System
 - 5-05-01 Starting System — Six-Cylinder Engines
 - 5-05-02 Starting System — Eight-Cylinder Engines
- 5-06 Automatic Header Height Control
- 5-07 Fourteen-Channel Monitor and Digital Tachometer
- 5-10 Electrical Trouble-Shooting

PART 6 — AIR CONDITIONING

- 6-01 Air Conditioning and Heater
 - 6-01-01 Delco-Frigidaire Axial Air Conditioning Compressor
- 6-10 Testing and Trouble-Shooting

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

TABLE OF CONTENTS (CON'T)

PART 7 — WHEEL & AXLE COMPONENTS

- 7-01 Final Drive
- 7-02 Brakes
- 7-03 -----Reserved-----
- 7-04 -----Reserved-----
- 7-05 Power Rear Wheel Drive
 - 7-05-01 Operating Details
 - 7-05-02 Rear Wheel Drive Control Valve
 - 7-05-03 Rear Wheel Drive Motor
 - 7-05-04 Rear Wheel Drive Planetary Housing
 - 7-05-10 Rear Wheel Drive Testing & Trouble-Shooting

PART 8 — HEADER UNITS

- 8-01 Knife Drive (Wobble Box)
- 8-02 Hydrostatic Reel Drive
 - 8-02-01 Header-Driven Hydrostatic Reel Drive
 - 8-02-02 Combine-Driven Hydrostatic Reel Drive
 - 8-02-03 Hydraulic Motors

PART 9 — THRESHING & SEPARATING COMPONENTS

- 9-01 Front Beater
- 9-02 Stone Trap & Feed Plate
- 9-03 Cylinder Drive
- 9-04 Cylinder & Concave
- 9-05 Rear Beater
- 9-06 Main Grain Pan & Shaker Shoe
- 9-07 Fanning Mill & Drive
- 9-08 Straw Walkers & Pan-Under-Walkers
- 9-09 Rethresher & Returns System
- 9-10 Cascade Separator (MF 855/865)

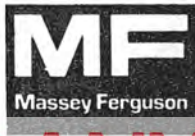
PART 10 — MATERIAL DELIVERY COMPONENTS

- 10-01 Header Elevator
- 10-02 Clean Grain System
- 10-03 Unloading System

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS



PART 1

CLICK ANYWHERE FOR MORE DETAILS

GENERAL INFORMATION

MANUAL PREVIEW

CONTENTS

	PAGE
SAFETY PRECAUTIONS	2
Left-Hand Header Elevator Cylinder Stop	3
Decal Locations	3
Other Precautions	5
RECOMMENDATIONS REGARDING SERVICE OF COMBINE	6
TORQUE CHART	7
SPECIFICATIONS	8
LUBRICATION	11

purchase full manual at

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

SPECIFICATIONS

ENGINE:

MF 850:

Model	Perkins A6.3724	Perkins AT6.3544	Perkins AT6.3544CC
Type	6-cyl. naturally aspirated	6-cyl. turbocharged	6-cyl. turbocharged, intercooled
Bore	3.99" (101 mm)	3.875" (98.4 m)	3.875" (98.4mm)
Stroke	5" (127 mm)	5" (127 mm)	5" (127 mm)
Piston Displacement	372 cu. in. (6 litres)	354 cu. in. (5.8 litres)	354 cu. in. (5.8 litres)
Compression Ratio	16.0:1	16.0:1	16.0:1
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Tappet Clearance (Cold):			
Intake	0.008" (0.20 mm)	0.008" (0.20 mm)	0.008" (0.20 mm)
Exhaust	0.018" (0.45 mm)	0.018" (0.45 mm)	0.018" (0.45 mm)
Engine Speeds:			
Full Throttle (No Load)	2500 rpm	2500 rpm	2500 rpm
Idle	1100 rpm	1100 rpm	1100 rpm
Capacities:			
Cooling System	9 U.S., 7.5 Imp. gals. (36.4 litres)	9 U.S., 7.5 Imp. gals. (36.4 litres)	9 U.S., 7.5 Imp. gals. (36.4 litres)
Crankcase	13.8 U.S., 11.5 Imp. qts. (13.1 litres)	14 U.S., 11.6 Imp. qts. (13.6 litres)	14 U.S., 11.6 Imp. qts. (13.6 litres)
With Filter	15 U.S., 12.5 Imp. qts. (14.2 litres)	15.2 U.S., 12.6 Imp. qts. (14.4 litres)	15.2 U.S., 12.6 Imp. qts. (14.4 litres)

MF 860:

Model	Perkins AT6.3544	Perkins AV8.540
Type	6-cyl. turbocharged	8-cyl. naturally aspirated
Bore	3.875" (98.4 m)	4.25" (108 mm)
Stroke	5" (127 mm)	4.75" (121 mm)
Piston Displacement	354 cu. in. (5.8 litres)	540 cu. in. (8.8 litres)
Compression Ratio	16.0:1	16.5:1
Firing Order	1-5-3-6-2-4	1-8-7-5-4-3-6-2
Tappet Clearance (Cold):		
Intake	0.008" (0.20 mm)	0.008" (0.20 mm)
Exhaust	0.018" (0.45 mm)	0.018" (0.45 mm)
Engine Speeds:		
Full Throttle (No Load)	2500 rpm	2500 rpm
Idle	1100 rpm	1000-1050 rpm
Capacities:		
Cooling System	9 U.S., 7.5 Imp. gals. (36.4 litres)	12.6 U.S., 10.5 Imp. gals. (47.8 litres)
Crankcase	14 U.S., 11.6 Imp. qts. (13.6 litres)	16.5 U.S., 13.75 Imp. qts. (15.5 litres)
With Filter	15.2 U.S., 12.6 Imp. qts. (14.4 litres)	17.5 U.S., 14.6 Imp. qts. (16.6 litres)

or Call 800-443-0625