

Operator's Manual

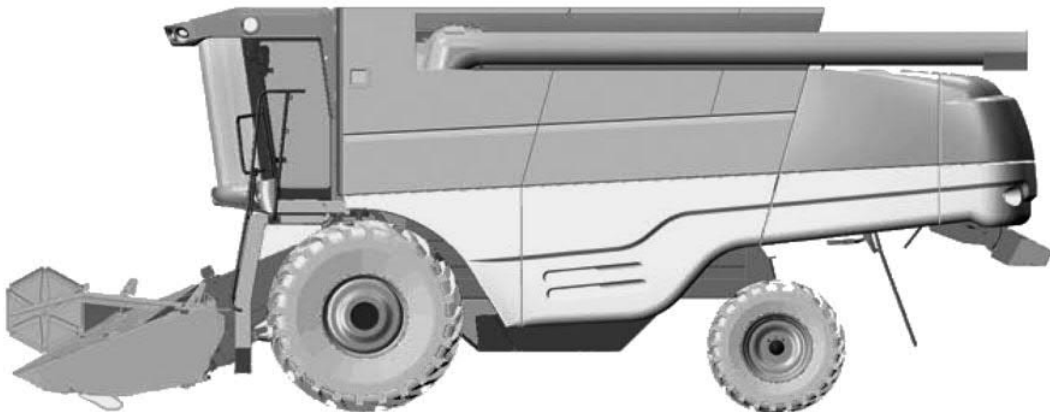
Combine

FENDT 8370 P

FENDT 8400 P

+ Auto Level

+ Rotary Separator



Contents

1	General Information.....	9
1.1	Appropriate Use.....	11
1.2	Changes and Improvements.....	11
1.3	Directives and Noise.....	11
1.4	Preface.....	12
1.5	Product Identification.....	13
1.6	Sectional Drawing and Parts Identification.....	14
1.7	Disposal.....	16
2	Safety.....	17
2.1	General Safety Precautions.....	18
2.2	Attention - Warning Symbols.....	19
2.3	Safety Precautions.....	20
2.4	Road Transport.....	22
2.5	Warning/Instruction decals.....	23
2.6	CE Marking and Type Plate on the Combine.....	28
2.7	Position of CE Markings and Type Plate.....	39
3	Operation, Controls and Cab.....	43
3.1	Before Start.....	45
3.2	Operator Cab, Arrangement and Controls.....	48
	Optional Extra.....	50
3.3	Safety Precautions - on the Move.....	51
3.4	Starting and Stopping the Engine.....	52
	Starting the engine.....	52
	Stopping the Engine.....	53
3.5	Drive Controls.....	54
	Multifunction lever.....	54
	Adjustable Armrest and Control Panel.....	55
	Gearshift.....	55
	Reduced Engine Revolutions in Road Transport (Speed Matching System).....	56
	Steering column.....	57
	Brakes.....	57
3.6	Seat.....	58
	Adjustment of Operator Seat.....	58
	Adjustment of Air-Suspended Seat.....	58
	EC declaration of conformity for the operator seat.....	59
	Safety Switch in Operator Seat - (Operator Present Switch).....	60
	Instructor seat.....	61
3.7	Mirrors.....	61
	Electrically Adjustable Rearview Mirrors.....	61
3.8	Accessibility.....	62
	Cab Ladder.....	62
	Ladder for Engine Compartment.....	62
	Cleaning the Windscreen.....	63
3.9	Emergency Situations.....	64
	Emergency Exit.....	64
	Fire extinguisher.....	64
3.10	Light and Lamps.....	65
	Lamps.....	65
	Main Light and Work Light.....	65
3.11	Operator Cab, Climate Control.....	66
	Climate control.....	66
	Operation of Climate Control.....	67
3.12	Printer.....	69
	Exchanging Paper and Ribbon in Printer.....	69

Contents

Inserting the Paper Roll	69
Fitting the Ribbon	69
3.13 Optional extra	70
3.13.1 Four-wheel drive	70
Activating Four-Wheel Drive	70
Forward Speed	70
Operating the Four-Wheel Drive	71
Service	71
3.13.2 Reversing camera	72
3.13.3 Auto-Guide	72
4 Operation, FIELDSTAR®	73
4.1 Safety Precautions	75
4.2 FIELDSTAR®	77
Menu Structure and Operation	77
Operating FIELDSTAR® from the terminal	78
Operating the Terminal by Remote Control in the Multifunction Lever	79
Contrast and Brightness Control	80
Cleaning the Terminal	80
Data card	81
FIELDSTAR® Menu Structure	81
4.3 Harvest Menu	83
4.4 Main Menu	87
4.5 Monitoring	89
Shaft Speeds	89
Engine Monitoring/Alarm	89
Engine safety alarm	90
Information	90
Shaft Speeds	91
4.6 Harvesting Data	93
Accumulated Machine Data	93
Trip Data and Field Data	93
4.6.1 Data Logging in General	94
4.6.2 Using Data Logging	96
Creating a New Field Job	96
Starting a Job	98
Field Map for a Job	100
Data logging messages	102
4.6.3 Data Logging Setup	104
Marker Setup	105
Selecting Position Data	106
Setting up the Logging Rate	106
4.6.4 Using Markers	107
4.7 Operator's Manual	109
Harvest Settings	109
Routine Servicing	109
FIELDSTAR®	109
4.8 Diagnostics	111
Electric Diagnostics	111
Yield Meter	111
System Information	111
System Setup	111
Programming the Computer	111
Control	111
GPS Information	112
DGPS Information	113
Programming	115
Diagnosis	115
Screen Calibration (Touch Calibration)	115
4.9 Coding	117

Contents

Clock Adjustment	117
Language	117
Area Measuring	118
Table Calibration	119
Returns Volume	119
Grain loss monitor	119
Concave Calibration	120
Constant Flow	120
Wheel Track and Auto Level Combine	120
Coding of Electrical Straw Deflectors	121
Lead Time and Lag Time	122
Calibration of Actuator for Electrical Sieves	123
4.10 Settings	125
Harvest Settings	125
Table Settings	128
Machine Settings	130
4.11 Returns Volume Monitor	132
Coding	132
4.12 Grain Loss Monitoring	133
Sensors	133
Adjustment of Grain Loss Sensors	133
4.13 Shaft Alarm Calibration	134
4.14 Yield Meter	135
4.14.1 Yield meter (Isotopic)	135
Measuring Principle	135
Mass Flow Measuring	135
Yield Meter Status	136
Using the Yield Meter	136
Yield Meter Calibration	136
4.14.2 Micro-Trak Yield Meter	137
Measuring Principle	137
Zero Point for Micro-Trak Yield Meter	137
Calibration of Micro-Trak Yield Meter	138
Slope Compensation for Micro-Trak Yield Meter	138
4.14.3 Yield Meter Calibration	139
4.15 Moisture Meter	141
Continuous Moisture Measuring	141
Measuring Principle	141
Using the Moisture Meter	141
Cleaning the Moisture Meter	142
Calibration of Moisture Meter	143
4.16 Cutting Height Control	145
Cutting Height Control Setting and Operation	145
Coding the Table	146
4.17 Field Pressure Control	147
Field Pressure Control Setting and Operation	147
4.18 Auto Level Table	149
Bleeding	149
Coding the Auto Level Table	150
Calibration of Table Angle	150
4.19 Operation of Auto Level Table	151
Manual Control	151
Levelling at Turns	151
4.20 Interaction Between Table Controls	152
4.21 Checking and Adjusting the Ground Sensors	153
4.22 Constant Flow	154
Start-up and Adjustment of Constant Flow	154
Constant Flow Engagement	156

Contents

5	Operation, Auto Level Combine	159
5.1	Safety Precautions	161
	Safety System	161
5.2	Combinations	162
	Selecting Combination	162
5.3	Auto Level Combine	163
	Manual Control of Auto Level Combine	163
5.4	Auto Level Combine/Table	164
	Combine	164
	Transport	164
	Auto Level Table	165
5.5	Calibration of Auto Level Combine	166
	Errors during Calibration	167
5.6	Coding the Auto Level Table	167
	Zero Cutting Height	167
5.7	Attachment/Removal of Table	168
5.8	Operation of Auto Level Combine/Auto Level Table	169
	Combinations	169
	Priority of Hydraulic Functions	170
5.9	Safety System, Auto Level	171
	Automatic Control of the Tilt Sensor Function	171
	Safety System	171
	Hose Breach Protection for Auto Level Hydraulics	172
5.10	Troubleshooting	172
	Machine Not Levelling Correctly	173
5.11	Servicing and User Tips	174
	Retrofit of New FIELDSTAR® Auto Level Job Computer and Sensors	174
	Unintentional Use of Manual Keys in Automatic Mode	174
	Diagnostics - Auto Level Combine Functions and Sensors	174
6	Engine	175
6.1	Safety Precautions	177
6.2	Engine Types	178
6.3	Air-Intake	178
	Filter System	178
6.4	Cooling System	179
	Rotary Screen and Dust Aspirator	179
	Coolers	179
	Coolant	180
	Checking the Fan Belt Tension	180
6.5	Fuel System	181
	Filter change	182
6.6	Engine Oil/Change	183
	Oil and Filter Change	183
6.7	Cleaning the Engine Compartment	183
6.8	Electronic Engine Management	184
6.9	Engine Trouble Shooting	184
	EEM3 Electronic Engine Management - Failure Codes (Self-Diagnosis)	184
7	Cutting Tables	191
7.1	Safety Precautions	193
7.2	Attachment of Table, Standard and Auto Level	194
7.3	Removal of Table	196
	Table Trailer	196
	Attachment of combine and trailer	197
	Table Trailer Brakes	197
	Supports	197

Contents

7.4	Reel	198
	Reel Adjustment Up/Down, Fore/Aft	198
	Bleeding	198
	Reel Rotation	199
	Reel Tine Bars	199
	Adjustment of the Reel in the Table	199
7.5	Knife	200
	Knife and Knife Drive	200
	Knife Adjustment	200
7.6	Feeding	201
	Table Auger	201
	Cut-Off Strip	202
	Replacement of Feathering Fingers	202
	Auger Flight Extensions, 20-22-25-30' Tables	203
	Reversing	203
7.7	Transmission	204
	PowerFlow Table, Knife Drive and Table Auger	204
	Slip Clutch for Table Auger	204
7.8	PowerFlow table	205
	Inspection and Running-In of PowerFlow Belts	205
	Adjustment of Belts	205
	Front Scrapers	206
	Rear Scrapers and Adjustment of Bearing Housings	206
	Table Bottom	206
	Cleaning	207
7.9	Crop Lifters	207
	Using Crop Lifters	207
7.10	Vertical Knives, Rape Auger and Straw Dividers	208
	Vertical Knife	208
	Mounting of Vertical Knife	208
	Rape Auger	208
	Torpedo Divider and Straw Divider Bow	209
	Fitting the Straw Dividers	209
	Adjustment of Torpedo Divider	209
7.11	Fixed Table Auger Fingers	210
	Using Fixed Table Auger Fingers	210
7.12	High Table Sides	210
7.13	Main crop elevator	211
	Crop Elevator Chain	211
	Transmission for Table	211
	Stone Trap	211
	Initial Adjustment of Cutting Height Indication	212
8	Operation of Machine and Cutting Table	213
8.1	Safety Precautions	215
8.2	Operation of Table	216
	Table Height and Table Automatic Control	216
	Cutting Height Control	217
	Field Pressure Control	217
	Preset Cutting Height	218
	Auto Level Table	218
	Table Engagement - Emergency Stop	219
	Slip Clutch	219
8.3	Threshing Unit Transmission	220
	Threshing Unit Engagement	220
	Cylinder Variator	220
	Turning Tool for Cylinder	221
8.4	Concave Setting, Electrically Adjustable	222
	Operation of Concave	222

Contents

	Concave Setting	222
8.5	Threshing	224
	Concave Filler Plates	224
	Straw Walkers	224
	Rear Beater Curtain	225
8.6	Straw Chopper and Spreader Hood	226
	Straw chopper	226
	Adjustment of Spreader Hood	227
	Counter Knives and Cross Bar	228
	Replacement of Knives	229
8.7	Fanning Mill and Sieves	230
	Fanning Mill	230
	Shaker shoe	230
	Shaker Shoe with Electrical Sieves	231
	Manual Adjustment of Sieves	231
	Cleaning of Sieves and Main Grain Pan	232
	Cleaning the Sieves	232
	Shaker Shoe Light	233
	Special Sieves	234
8.8	Internal Grain Transport	235
	Auger Housing/Elevators	235
	Returns thresher	235
	Tank filling auger	236
	Grain Tank	236
	Unloading Auger	238
	Unloading Auger Clutch	238
	Unloading Tube	239
8.9	Rotary Separator	240
	Changing Rotor Revolutions	240
	Concave Setting	240
8.10	Straw hood	241
	Alarm switch for straw hood blocked	241
	Blockage in straw hood	241
	Light in straw hood	241
8.11	Chaff Spreader	242
	Setting	242
8.12	Maize Threshing	243
	Attachment of Maize Header	243
	Area Measuring	243
	Main crop elevator	244
	Concave/Cylinder/Stone Trap	244
	Concave/Initial Settings	244
	Threshing cylinder	244
	Rotary Separator	245
	Shaker shoe	245
	Machine with Electrical Sieves	245
	Straw walkers	245
	Bottom Auger Cover Plate	246
	Scrapers	246
	Rear Beater Curtain	246
	Straw chopper	246
8.13	Suggested Harvest Settings	247
8.14	Threshing	248
9	Transmissions	249
9.1	Safety Precautions	251
9.2	Adjustment of Transmissions	252
	General	252
	Threshing Unit Clutch	252

Contents

Hydrostatic Transmission	252
9.3 Transmissions	253
Rear beater	253
Main Crop Elevator and Table	253
Straw chopper	253
Threshing cylinder	254
Unloading Auger	254
Shaker Shoe and Chaff Spreader Counter Drive, and Straw Walker Drive	255
Filling and Returns System Countershaft	256
Returns Elevator and Returns Thresher	256
Tank Filling Elevator and Tank Filling Auger	257
Dust aspirator	257
Rotary screen	258
Fanning Mill	259
Rotary Separator	259
Alternator and Fan	259
Climate control	260
9.4 Transmission Diagram, Left-Hand Side	262
9.5 Transmission Diagram, Right-Hand Side	264
10 Hydraulics	267
10.1 Safety Precautions	269
10.2 Hydraulic System, Standard Combine	270
Hydrostatic Transmission	270
10.3 Hydraulic System, Four-Wheel Drive	271
Hydrostatic Transmission	271
10.4 Oil Change	272
Draining Oil	272
Refilling Oil	272
10.5 Filter Change	273
Return Oil Filter	273
Storage of Hydraulic System	273
10.6 Auxiliary Hydraulics	274
Functions and Auxiliary Hydraulics	274
Reel Adjustment Fore/Aft - Up/down	274
10.7 Hydraulics Diagram, Standard Combine	276
10.8 Hydraulics Diagram, Auto Level Combine	278
10.9 Hydraulics Diagram for Chaff Spreader	280
11 Maintenance	281
11.1 Safety Precautions	283
11.2 Undercarriage	285
Wheel nut torques	285
11.3 Tyre Pressure	286
11.4 Lubrication chart	288
Daily/10 Hours (Red)	288
50 hours (blue)	288
100 hours (yellow)	288
200 hours (white)	289
11.4.1 Lubrication chart	290
11.4.2 Lubrication Chart, Auto Level Combine	292
11.5 Lubricants and Operating Fluids	293
11.6 Maintenance Required	294
11.7 Gear Oil Change	296
Gearbox	296
Final drives	296
11.8 Climate control	297

Contents

Diagram for Climate Control System	297
Maintenance	297
11.9 Cleaning and Off-Season Storage	298
Cleaning	298
Off-season storage	299
Storage of Engine, Fuel System and Hydraulic System	300
Periodical Start-Up	300
Removal of Main Crop Elevator	301
Removal of Elevator Chains	301
After Off-Season Storage	301
11.10 Adjustment of Brakes	302
Adjustment of Foot Brakes, Disc Brakes	302
Adjustment of Parking Brake	302
11.11 Dealer Servicing Schedule	303
12 Electrical system	309
12.1 Safety Precautions	311
12.2 Electrical System	312
Charging System	312
Electric Boxes and Main Switch	312
12.3 External 12V connectors	313
12.4 Electro-Hydraulic System	315
Hydraulic safety	315
12.5 Key to Signatures for Wiring Harness	316
Wire Codes	316
Component Codes	316
12.6 Position of Connectors in Electric Box	317
12.7 Fuses and Relays, Electric Box and Cab	318
12.8 Key to symbols	320
12.9 Diagrams survey	321
12.10 Fuses, Alphabetical	322
12.11 Fuse Ratings	323
12.12 Components	324
12.13 Diagrams	330
13 Specifications	341
13.1 Dimensions and Specifications	341
14 Index	347

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com