

PARTS MANUAL

**H800HDS, H900HDS, H970HDS,
H1050HDS, H900HD, H970HD,
H1050HD
(C917)**

CUSTOMER EDITION

HYSTER

SECTIONS

1	FRAME
2	ENGINE ASSEMBLY
3	FUEL SYSTEM
4	ELECTRICAL SYSTEM
5	TRANSMISSION
6	DRIVE AXLE
7	STEERING SYSTEM
8	BRAKE SYSTEM
9	HYDRAULIC SYSTEM
10	ATTACHMENTS
11	OPTIONS
12	FIELD CONVERSION KITS
13	NUMERICAL INDEX

This Parts Manual is divided into 13 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.

**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**

TABLE OF CONTENTS

DESCRIPTION	PAGE
A	
ACCESSORY DRIVE PULLEY	
TIER 3 ENGINE	2-29
TIER 4(F) ENGINE	2-30
AIR CLEANER PLUMBING	
TIER 3 ENGINE	2-31
AIR CONDITIONER	
CLIMATE CONTROL CAB	1-72
AIR CONDITIONER ASSEMBLY	
CAB WITH AIRCO	1-60
AIR CONDITIONER SYSTEM	
CLIMATE CONTROL CAB	1-70
AIR CONDITIONER SYSTEM ASSEMBLY	
CAB WITH AIRCO	1-58
AIR CONDITIONING HOSES	
TIER 3 ENGINE	1-100
TIER 4(F) ENGINE (→ S/N C917E01506N)	1-102
TIER 4(F) ENGINE (S/N C917E01507N →)	1-104
AIR DUCT	11-2
AIR DUCT ASSEMBLY	
AIR CONDITIONING - CAB WITH AIRCO OR WITH CLIMATE CONTROL	1-66
HEATER - CAB WITHOUT AIRCO	1-52
AIR HORN	1-74
AIR INTAKE CONNECTION	
TIER 3 ENGINE	3-5
TIER 4(F) ENGINE	3-6
AIR INTAKE HOSE	
TIER 3 AND TIER 4(F) ENGINE	3-4
AIR INTAKE MANIFOLD	
TIER 3 ENGINE	3-8
AIR INTAKE SYSTEM	
TIER 3 ENGINE	3-2
TIER 4(F) ENGINE	3-3
AIR TRANSFER CONNECTION	
TIER 3 ENGINE	3-7
TIER 4(F) ENGINE	2-32
ALTERNATOR	
TIER 3 AND TIER 4(F) ENGINE	4-20
ALTERNATOR DRIVE PULLEY	
TIER 3 ENGINE	4-25
ALTERNATOR MOUNTING	
TIER 3 ENGINE	4-22
TIER 4(F) ENGINE	4-24
ARMREST ASSEMBLY	1-37
AUTOMATIC GREASING PUMP	9-52
AUTOMATIC GREASING SYSTEM	
PAGE 1 OF 4	9-44
PAGE 2 OF 4	9-46
PAGE 3 OF 4	9-48

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
PAGE 4 OF 4	9-50
AUXILIARY COOLING PLUMBING	
TIER 4(F) ENGINE	2-33
B	
BATTERY BOX AND REAR FENDER	1-13
BELT TENSIONER	
TIER 4(F) ENGINE	2-34
BLOCK ASSEMBLY AND HOSES, TWIN 12-PORT	
WITH METERING UNIT NUMBERS 3, 8, AND 10 - STEER AXLE LUBRICATION	9-56
BLOCK ASSEMBLY AND HOSES, TWIN 7-PORT	
WITH METERING UNIT NUMBERS 4 AND 8 - MAST MOUNTING LUBRICATION	9-54
BRAKE ACCUMULATOR AND MOUNTING HARDWARE	8-13
BRAKE MANIFOLD AND ATTACHING BRAKE HOSES	8-9
BRAKE PEDAL ASSEMBLY	8-2
BRAKE PEDAL LINKAGE	8-4
BRAKE VALVE AND ATTACHING BRAKE HOSES	8-6
BREATHER PLUMBING	
TIER 3 ENGINE	2-35
TIER 4(F) ENGINE	2-36
C	
CAB ATTACHING PARTS	
PAGE 1 OF 3	1-108
PAGE 2 OF 3	1-110
PAGE 3 OF 3	1-112
CAB DOOR	
LEFT HAND	1-82
RIGHT HAND	1-84
CAB FLOORMATS	1-88
CAB MAIN DOOR WINDOW	
RIGHT AND LEFT HAND	1-86
CAB RECIRCULATING FAN	11-4
CAB SUNSHADE	
REAR	1-78
TOP	1-76
CAB TILT	1-48
CAB TILT CYLINDER	1-46
CAB TILT HAND PUMP	1-44
CAB TILT PUMP	
ELECTRIC	1-42
CAB TILT PUMP AND ATTACHING PARTS	1-40
CAB WINDOWS INSTALLATION	1-90
CABIN HEATER PLUMBING	
TIER 4(F) ENGINE	2-37
CAM FOLLOWER LEVERS	
TIER 3 ENGINE	2-38
CAMSHAFT	
TIER 3 ENGINE	2-40

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
CARRIAGE ASSEMBLY	
SIDE-SHIFT	10-28
STANDARD	10-26
CARRIAGE HYDRAULICS	
SIDE-SHIFT	10-34
STANDARD	10-32
CHARGE AIR COOLER TUBES AND INTAKE HOSES	
TIER 3 ENGINE	2-23
TIER 4(F) ENGINE	2-24
CLIMATE CONTROL SYSTEM	1-68
COMPRESSOR ASSEMBLY	
TIER 4(F) ENGINE	1-106
COMPRESSOR MOUNTING	
TIER 3 ENGINE	2-42
TIER 4(F) ENGINE	2-44
CONDENSER	
CAB WITH AIRCO OR WITH CLIMATE CONTROL	1-64
CONDENSER SYSTEM	
CAB WITH AIRCO OR WITH CLIMATE CONTROL	1-62
CONTROL PANEL ASSEMBLY	
HEATER	4-26
HEATER AND AIR CONDITIONER	4-27
CONTROL VALVE ASSEMBLY	
AUXILIARY	9-10
CAP AND SUPPORT KIT	9-16
LIFT	9-12
LIFT AND TILT	9-14
CONTROLLER	
SEAT BELT SEQUENCER	11-5
COOLANT HEATER STARTING AID	
TIER 3 ENGINE	2-45
COOLER AND ATTACHING BRAKE HOSES	8-8
COOLER ASSEMBLY	2-20
COOLING	
TIER 3 ENGINE	2-16
TIER 4(F) ENGINE	2-18
CORROSION RESISTOR	
TIER 3 ENGINE	2-46
COUNTERWEIGHT	
H1050HD/HDS	1-20
H800HDS, H900HD/HDS - H970HD/HDS	1-18
CRANKSHAFT	
TIER 3 ENGINE	2-48
CRANKSHAFT MAIN BEARINGS	
TIER 3 ENGINE	2-49
CYLINDER BLOCK	
TIER 3 ENGINE	2-50
TIER 4(F) ENGINE	2-54

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
CYLINDER BLOCK PLUMBING	
TIER 3 ENGINE	2-52
CYLINDER HEAD	
TIER 3 ENGINE	2-56
D	
DASH ASSEMBLY	1-80
DC-DC CONVERTER AND ATTACHING PARTS	11-6
DEF SUPPLY MODULE	3-42
DEF SYSTEM	
PAGE 1 OF 3	3-36
PAGE 2 OF 3	3-38
PAGE 3 OF 3	3-40
DIFFERENTIAL AND CARRIER ASSEMBLY	6-4
DRIVE AXLE AND ATTACHING BRAKE HOSES	8-12
DRIVE AXLE MOUNTING	6-2
DRIVE SHAFT	5-44
DRIVE WHEELS AND TIRES	
18.00 X 25 (→ S/N C917E01508N)	6-14
18.00 X 25 (S/N C917E01509N →)	6-16
18.00 X 33	6-18
E	
ELECTRICAL SYSTEM	
PAGE 1 OF 2 - TIER 3 ENGINE (→ PENDING PER ECN 68671-27)	4-4
PAGE 1 OF 2 - TIER 3 ENGINE (PENDING PER ECN 68671-27 →)	4-6
PAGE 1 OF 2 - TIER 4(F) ENGINE (→ PENDING PER ECN 68671-27)	4-8
PAGE 1 OF 2 - TIER 4(F) ENGINE (PENDING PER ECN 68671-27 →)	4-10
PAGE 2 OF 2	4-12
EMPTY SEAT ENGINE SHUTDOWN	11-7
ENGINE BLOCK HEATER 240V	11-8
ENGINE CONTROL MODULE	
TIER 4(F) ENGINE	4-28
ENGINE CONTROL SYSTEM	
TIER 3 ENGINE	4-30
ENGINE COOLANT PLUMBING	
TIER 4(F) ENGINE	2-58
ENGINE MOUNTING	
TIER 3 ENGINE	2-26
TIER 4(F) ENGINE	2-28
ENGINE OIL FILL	
TIER 3 ENGINE	2-60
TIER 4(F) ENGINE	2-62
ENGINE SUPPORT	
TIER 4(F) ENGINE	2-63
ETR CONTROL MODULE WIRE HARNESS	
TIER 4(F) ENGINE	4-32
EXHAUST MANIFOLD	
TIER 3 ENGINE	2-64

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
TIER 4(F) ENGINE	2-65
EXHAUST OUTLET CONNECTION	
TIER 3 ENGINE	2-66
EXHAUST PIPE	
DRT - TIER 4(F) ENGINE	2-12
EXHAUST RECIRCULATION	
TIER 4(F) ENGINE	2-67
EXHAUST RECIRCULATION AIR PLUMBING	
TIER 4(F) ENGINE	2-69
EXHAUST RECIRCULATION WATER PLUMBING	
TIER 4(F) ENGINE	2-68
EXHAUST SYSTEM	
TIER 3 ENGINE - H900HD, H970HD, H1050HD	2-6
TIER 3 ENGINE - H800HDS, H900HDS, H970HDS, H1050HDS	2-8
TIER 4(F) ENGINE	2-10
F	
FAN DRIVE AND MOUNTING	
TIER 4(F) ENGINE	2-70
FAN DRIVE AND SPACER	
TIER 3 ENGINE	2-71
FLOORPLATES	1-4
FLYWHEEL	
TIER 3 ENGINE	2-75
TIER 4(F) ENGINE	2-76
FLYWHEEL HOUSING	
TIER 3 ENGINE	2-72
TIER 4(F) ENGINE	2-74
FORK POSITIONER	
SIDE-SHIFT CARRIAGE	10-20
STANDARD CARRIAGE	10-22
FORK POSITIONING CYLINDER	10-24
FORKS	10-40
FRONT DRIVE TRAIN	
TIER 3 ENGINE	2-77
FRONT ENGINE SUPPORT	
TIER 3 ENGINE	2-78
FRONT FENDER LIGHTS	4-44
FRONT GEAR COVER	
TIER 3 ENGINE	2-80
TIER 4(F) ENGINE	2-82
FRONT GEAR TRAIN ACCESSORY MOUNTING	
TIER 4(F) ENGINE	2-83
FUEL DRAIN PLUMBING	
TIER 4(F) ENGINE	3-18
FUEL FILTER	
TIER 3 ENGINE	3-20
TIER 4(F) ENGINE	3-22

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
FUEL FILTER PLUMBING	
TIER 3 ENGINE	3-24
TIER 4(F) ENGINE	3-26
FUEL PUMP ASSEMBLY	
TIER 3 ENGINE	3-10
FUEL PUMP COUPLING	
TIER 3 ENGINE	3-13
FUEL PUMP DRIVE	
TIER 3 ENGINE	3-14
FUEL PUMP INTAKE FITTING	
TIER 3 AND TIER 4(F) ENGINE	3-15
FUEL PUMP PLUMBING	
TIER 3 ENGINE	3-16
FUEL SUPPLY PLUMBING	
TIER 4(F) ENGINE	3-30
FUEL SYSTEM	
TIER 3 ENGINE	3-32
TIER 4(F) ENGINE	3-34
FUEL TANK	3-31
FUEL TRANSFER PUMP	
TIER 4(F) ENGINE	3-28
G	
GEAR HOUSING	
TIER 3 ENGINE	2-84
TIER 4(F) ENGINE	2-85
H	
HEADER HOSES	
4267 MM, 7010 MM, 8534 MM LIFT HEIGHTS	10-12
9144 MM, 9754 MM, 12650 MM LIFT HEIGHTS	10-16
HEAT SHIELD	
TIER 4(F) ENGINE	2-86
HEATED TOP WINDOW	11-9
HEATER AND AIR DUCT	
CAB WITHOUT AIRCO	1-51
HEATER ASSEMBLY	
CAB WITHOUT AIRCO	1-56
HEATER HOSES	
TIER 3 ENGINE	1-96
TIER 4(F) ENGINE	1-98
HEATER SYSTEM	
CAB WITHOUT AIRCO	1-54
HIGH PRESSURE HYDRAULIC FILTER AND ATTACHING BRAKE HOSES	8-7
HOODS AND COVERS	
H800HDS, H900HDS, H970HDS, H1050HDS	1-14
H900HD, H970HD, H1050HD	1-16
HUB ASSEMBLY	6-6

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
HYDRAULIC CONTROL VALVES	
ATTACHING PARTS AND MOUNTING	9-8
HYDRAULIC CONTROLS	
JOYSTICK	9-38
LEVERS - STANDARD CARRIAGE	9-42
LEVERS - SIDE-SHIFT CARRIAGE	9-43
HYDRAULIC GEAR PUMP	
FIXED DISPLACEMENT	9-30
HYDRAULIC PUMPS	9-28
HYDRAULIC SUPPLY AND RETURN	9-2
HYDRAULIC TANK	9-4
HYDRAULIC TANK AND ATTACHING BRAKE HOSES	8-11
HYDRAULIC TANK AND ATTACHING HYDRAULIC HOSES	9-6
I	
IDLER GEAR	
TIER 3 ENGINE	2-88
INDICATOR DISPLAY AND CONTROLS	4-18
INSULATION MATS AND AIR DUCT	11-10
INTAKE CONNECTOR	
AIR COMPRESSOR - TIER 3 ENGINE	2-90
INTAKE MANIFOLD	
TIER 4(F) ENGINE	2-91
J	
JOYSTICK ASSEMBLY	
FORK LIFT TRUCK	9-40
L	
LABELS	
HYDRAULIC CONTROLS - JOYSTICK	1-113
HYDRAULIC CONTROLS - LEVERS WITH STANDARD CARRIAGE	1-114
HYDRAULIC CONTROLS - LEVERS WITH SIDE-SHIFT	1-115
PAGE 1 OF 3	1-116
PAGE 2 OF 3	1-118
PAGE 3 OF 3	1-120
LIFT CYLINDER	
MAST - 4267 MM, 8534 MM, 9144 MM LIFT HEIGHTS	10-44
MAST - 7010 MM AND 9754 MM LIFT HEIGHTS	10-46
MAST - 12650 MM LIFT HEIGHT	10-48
LIFT HYDRAULICS	
WITH 15° FWD/15° BACK TILT	9-18
LIFT/TILT MANIFOLD	
WITH AND WITHOUT LIFT ACCUMULATOR OPTION	9-20
LIFT/TILT MANIFOLD ASSEMBLY	9-22
LIFTING BRACKET	
TIER 3 ENGINE	2-92
LIFTING BRACKETS	
TIER 4(F) ENGINE	2-93
LIGHT SWITCHES	4-123

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
LIGHTS	
STROBE - WITH CONDENSER	4-38
STROBE - WITHOUT CONDENSER	4-39
M	
MAIN MANIFOLD AND ATTACHING BRAKE HOSES	8-14
MAIN MANIFOLD ASSEMBLY	
PAGE 1 OF 2	9-24
PAGE 2 OF 2	9-26
MAP READING LIGHT	11-12
MAST	
4267 MM, 7010 MM, 8534 MM LIFT HEIGHTS	10-4
9144 MM, 9754 MM, 12650 MM LIFT HEIGHTS	10-8
MAST INSTALLATION	10-2
MIRROR AND RAILS	
LH	1-6
RH	1-8
MIRRORS	11-13
MUFFLER/CATALYTIC CONVERTER ASSEMBLY	
DOC - TIER 4(F) ENGINE	2-14
SCR - TIER 4(F) ENGINE	2-13
O	
OIL COOLER	
TIER 4(F) ENGINE	2-95
OIL COOLER AND FILTER HEAD ADAPTER	
TIER 3 ENGINE	2-104
OIL COOLER WATER PLUMBING	
TIER 3 ENGINE	2-94
OIL FILLER	
TIER 3 ENGINE	2-99
TIER 4(F) ENGINE	2-100
OIL FILTER	
TIER 3 ENGINE	2-101
TIER 4(F) ENGINE	2-102
OIL LEVEL GAUGE	
TIER 3 ENGINE	2-97
TIER 4(F) ENGINE	2-98
OIL PAN	
TIER 3 ENGINE	2-106
TIER 4(F) ENGINE	2-108
OIL PUMP AND ATTACHING PARTS	
TIER 3 ENGINE	2-110
P	
PARK BRAKE ASSEMBLY	6-12
PARK BRAKE RETAINER	6-10
PEDAL LINKAGE	
FORWARD/REVERSE LEVER	3-44
PIVOT ARM ASSEMBLY	1-38

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
PLUG, COOLANT HEATER STARTING AID TIER 4(F) ENGINE	2-111
R	
RADIATOR PLUMBING TIER 3 ENGINE	2-112
RADIATOR SCREEN	2-22
RADIO CONSOLE AND ATTACHING PARTS	11-14
REAR LOCKING CONSOLE	11-16
RELAYS AND FUSES	4-64
S	
SEAT ASSEMBLY SUSPENSION	1-34
SEAT ASSEMBLY, AIR SUSPENSION	1-24
DELUXE	1-26
WITH THREE POINT SEAT BELT	1-28
SEAT ASSEMBLY, MECHANICAL SUSPENSION	1-22
SECOND 12V SOCKET OPTION ONLY WITH DC-DC CONVERTER	11-17
SERVICE BRAKE ASSEMBLY	6-8
SIDE-SHIFT CYLINDER ASSEMBLY	10-42
SOLENOID VALVE ASSEMBLY	10-38
START AID	11-18
STARTER TIER 4(F) ENGINE	4-33
STARTER MOTOR AND MOUNTING TIER 3 ENGINE	4-34
STEER AXLE AND ATTACHING PARTS	7-16
STEER AXLE ASSEMBLY PAGE 1 OF 2	7-18
PAGE 2 OF 2	7-20
STEER COLUMN ASSEMBLY	7-4
ALTERNATE CONFIGURATION	7-6
STEER CYLINDER	7-14
STEER TIRES AND WHEELS 18.00 X 25 (→ S/N C917E01508N)	7-22
18.00 X 25 (S/N C917E01509N →)	7-24
18.00 X 33	7-25
STEERING COLUMN	7-8
STEERING CONTROL UNIT	7-10
STEERING CONTROL VALVE	7-12
STEERING HOSES	7-2
STEPS	1-10
STORAGE BOX AND REAR FENDER	1-12
SUSPENSION KIT ASSEMBLY	1-32
T	
TAIL LIGHTS AND BACK-UP ALARM	4-40
TELEMETRY KITS	12-2

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
THERMOSTAT	
TIER 3 ENGINE	2-114
TIER 4(F) ENGINE	2-115
THERMOSTAT HOUSING	
TIER 3 ENGINE	2-116
THROTTLE AND INCHING SENSORS	3-46
TILT CYLINDER AND ATTACHING PARTS	9-34
TILT CYLINDER ASSEMBLY	9-36
TILT HYDRAULICS	9-32
TILT PLATFORM ASSEMBLY	1-50
TRAINING SEAT	11-19
TRANSMISSION	
CASE AND REAR COVER	5-10
CONTROL VALVE	5-42
FIRST SPEED CLUTCH SHAFT	5-30
FIRST SPEED GEARS	5-21
FIRST SPEED SHAFT AND IDLER GEAR	5-34
FORWARD CLUTCH SHAFT	5-22
FORWARD, REVERSE AND SECOND, - AND THIRD OR FOURTH CLUTCH SHAFTS	5-20
FOURTH SPEED CLUTCH SHAFT	5-32
INPUT DRIVE GEARS	5-14
OUTPUT SHAFT	5-36
PUMP DRIVE	5-16
REGULATOR VALVE AND HYDRAULIC PUMP	5-38
REMOTE FILTER AND ADAPTER	5-40
REVERSE AND SECOND CLUTCH SHAFT	5-28
THIRD SPEED CLUTCH SHAFT	5-24
THIRD SPEED GEARS	5-26
TORQUE CONVERTER AND DRIVE PLATE	5-18
TORQUE CONVERTER HOUSING	5-6
TURBINE SHAFT, STATOR SUPPORT, OIL BAFFLE	5-12
TRANSMISSION CONTROL	4-16
TRANSMISSION LINES AND ATTACHING PARTS	5-2
TRANSMISSION MOUNTING	5-4
TURBOCHARGER	
TIER 3 ENGINE	2-118
TIER 4(F) ENGINE	2-120
TURBOCHARGER PLUMBING	
TIER 3 ENGINE	2-122
TURBOCHARGER WATER PLUMBING	
TIER 4(F) ENGINE	2-124
V	
VALVE COVER	
TIER 3 ENGINE	2-126
TIER 4(F) ENGINE	2-128
VARIABLE HYDRAULIC PUMP AND ATTACHING BRAKE HOSE	8-15
VIBRATION DAMPER	
TIER 3 ENGINE	2-130

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
TIER 4(F) ENGINE	2-131
W	
WATER PUMP	
TIER 3 ENGINE	2-132
WATER PUMP AND CONNECTIONS	
TIER 4(F) ENGINE	2-134
WINDOW WIPER SYSTEM	
REAR AND ROOF WIPER KITS - AND FRONT WIPER OPTIONS	1-92
WASHER BOTTLE KIT	1-94
WIRE HARNESS	
ARMREST	4-46
BACK-UP ALARM	4-49
CAB LIGHTS	4-50
CAB SIDE CONSOLE - PAGE 1 OF 3	4-52
CAB SIDE CONSOLE - PAGE 2 OF 3	4-56
CAB SIDE CONSOLE - PAGE 3 OF 3	4-60
CAB TILT	4-67
CAB UNDERFLOOR	4-68
CARRIAGE - STANDARD	4-71
CARRIAGE - SIDE-SHIFT	4-72
CHASSIS - PAGE 1 OF 4	4-74
CHASSIS - PAGE 2 OF 4	4-78
CHASSIS - PAGE 3 OF 4	4-80
CHASSIS - PAGE 4 OF 4	4-82
CLOSED CAB	4-116
CLOSED CAB - ALTERNATE CONFIGURATION	4-120
COOLANT LEVEL SWITCH - TIER 3 ENGINE	4-84
COOLANT LEVEL SWITCH - TIER 4(F) ENGINE	4-85
ECO/ELO-HIP - TIER 4(F) ENGINE	4-86
ENGINE AFTERTREATMENT SYSTEM/ECM - TIER 4(F) ENGINE	4-88
ENGINE ECM ADAPTER - TIER 3 ENGINE	4-92
FRONT LIGHTS	4-94
MANIFOLD	4-96
MAST	4-98
PDM	4-100
POWERTRAIN - FULL FLOW	4-104
PRESSURE SWITCH BASE	4-108
PUMP BASE TRUCK	4-109
REAR	4-110
REAR WIPER EXTENSION	4-111
STEER COLUMN	4-112
TWIN FRONT FENDER WORK LIGHTS	4-113
WIF SENSOR	4-114
WINDOW WASH PUMPS	4-115
WIRE MESH ROOF PROTECTION	11-20
WIRING ACCESSORIES	
ELECTRONIC CONTROL MODULE - TIER 3 ENGINE	4-36

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
WORK LIGHTS HALOGEN AND HID	4-42

ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION	TERM	DEFINITION
Amp	Amperes	FRE	Freezer Environment
AR	As Required	in.	inches
BDI	Battery Discharge Indicators	LPG	Liquefied Petroleum Gas
BWI	Brush Wear Indicator	MAP	Manifold Absolute Pressure
CE	Communicator End	mm	millimeters
CRE	Corrosive Environment	MSTS	Microprocessor Spark Timing System
D/B	Date Break	NPT	National Pipe Threads
dbA	Decibel "A" Scale	O/S	Oversize
DE	Drive End	PTO	Power Take Off
ECH	Empty Container Handler	RPM	Revolutions per Minute
ECH-3	Empty Container Handler - 3 High Stacking	S/N	Serial Number
ECH-4	Empty Container Handler - 4 High Stacking	TMM	Truck Management Module
ECH-5	Empty Container Handler - 5 High Stacking	UL Type D	Diesel-Powered Safety Rating
ECH-6	Empty Container Handler - 6 High Stacking	UL Type DS	Diesel-Powered Safety Rating
ECH-7	Empty Container Handler - 7 High Stacking	UL Type E	Battery-Powered Safety Rating
ECM	Electronic Control Module	UL Type EE	Battery-Powered Safety Rating
ECN	Engineering Change Notice	UL Type ES	Battery-Powered Safety Rating
EEPROM	Electrically Erasable Programmable Read Only Memory	UL Type G	Gasoline-Powered Safety Rating
EPA	US Environmental Protection Agency	UL Type GS	Gasoline-Powered Safety Rating
EPROM	Electrically Programmable Read Only Memory	UL Type LP	Gas-Powered Safety Rating
		UL Type LPS	LP Gas-Powered Safety Rating
		U/S	Undersize
		UL	Underwriters Laboratory
		V	Volts

HOW TO USE THE ILLUSTRATED PARTS MANUAL

This parts manual describes and illustrates assemblies, subassemblies, and detail parts needed for service replacement.

The different constructions are indicated by keys and footnotes. The callouts correspond to descriptions found on the next page.

HYSTER UNIT CODE D001 NORTH AMERICA 06/2001

TABLE OF CONTENTS

DESCRIPTION	PAGE
AIR INTAKE AND FILTER DIESEL (⇒ D/B 11/98)	3-22
AIR INTAKE AND FILTER DIESEL (D/B 11/96 ⇒)	
AIR INTAKE AND FILTER GASOLINE AND LPG	
ALTERNATOR GASOLINE, LPG, AND DIESEL	
ALTERNATOR TYPES GS, LPS, AND DS	
AUXILIARY FUNCTION TUBE TWO AND THREE STAGE FULL F	

SECTION 13 NUMERICAL INDEX

PART NO.	PAGE NO.	ITEM NO.	PART NO.	PAGE NO.	ITEM NO.	PART NO.	PAGE NO.	ITEM NO.
142	3-4	19	10-13	25		11-27	29	12-31
12445	3-32	19	10-17	6		11-31	25	3-36
	3-34	1	10-27	11		11-32	37	3-16
			11	11	16485	8-4	29	16849
			11	6		8-4	45	16863
			12	13		8-8	34	16865
			12	6		9-7	9	3-34
			13	17		9-7	19	3-38
			13	10		9-11	9	3-28
			23	46		9-11	17	3-6
			27	46		10-9	21	4-27
			26	14		10-9	28	9-7
			28	14		10-13	16	9-11
			50	14		11-7	19	27
						11-7	19	30
								36
								32
								24
								17

SECTIONS

- 1
- 2
- 3
- 4
- 5 BRAKE/ACC
- 6
- 7 MAST-TWO STAG
- 8 MAST-THREE ST
- 9 MAST-TWO ST
- 10
- 11

TRANSMISSION HOUSING ⇒ S/N D001H-2628

KEY:
A: Diesel
B: Gasoline and LPG

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
		Transmission	1	1
	2023229	Transmission	1	1
1	2021670	Case	2	2
2	2023418	Bearing Cap	4	4
3	296429	Washer	4	4
4	29394F	Bolt	1	1
5	2021390	Cover	2	2
6	1371656	Colter Pin	4	4
7	2021329	O-Ring	1	1
8	2021915	Plug	4	4
9	2021675	Housing	22	22
10	2021336	Pin	39	39
11	287860	Bolt	1	1
12	292682	Lockwasher	1	1
13		Hydraulic Pump ⇒ Figure 5-3	1	1
14	2021345	Gasket	1	1
15	214364	Bolt	8	8
16	296418	Washer	1	1
17	2021388	Temperature Switch	1	1
18	2021389	Breather	9	9
19	2021383	Dipstick	9	9
20	292515	Bolt	2	2
21	136692	Nut	3	3
22	292527	Bolt	3	2
23	292531	Capscrew	4	4
24	292583	Lockwasher	4	4
25	293637	Bolt	4	4
26	296420	Washer	1	1
	996403	Transmission Kit (Includes Item 7)	1	1
	996405	Transmission Kit (Includes Item 14)	1	1

This Parts Manual is divided into 11 major sections which are listed above. Quick be made by placing the right thumb on the tab of the desired section, bending the pages to the corresponding tab.

©Copy Right Date HYSTER COMPANY See Service Manual for service procedures. 5-15

HP990004

HOW TO FIND THE DESIRED PART NUMBER

WHEN THE PART NUMBER AND THE NEXT HIGHER ASSEMBLY IS NOT KNOWN:

1. Determine the function and application of the part required. Turn to the Sections Page. Choose the general area of reference most likely to include the part.
2. Turn to the section you chose. Use the Section Table of Contents to determine the assembly which would normally contain the part required. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS NOT KNOWN AND THE NEXT HIGHER ASSEMBLY IS KNOWN:

3. Determine the assembly the required part is used on. Turn to the Table of Contents (Page i).
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 13-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting correct parts.

6. Parts Supersession Information. Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

Five periods in the PART NO. column (.) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a figure number in the DESCRIPTION column (☞ Figure 10)

7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and

subparts of assemblies. In the example on the previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.

9. Quantities shown are for one assembly. The quantities of the subpart *BEARING CAP* are indicated as two and two. This means two per *CASE* assembly.
10. Serial number breaks identify the most current parts information and are shown as follows:
 - **S/N D001H2628**
Indicates last serial number affected.
 - S/N D001H2629** →
Indicates the first serial number affected.
 - S/N D001H1553** ↔ **S/N D001H3291**
Indicates a range of serial numbers affected.

ECN numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information and are identified as follows:

→ **S/N Pending Per ECN 63243**

Indicates a pending serial number for last unit affected.

S/N Pending Per ECN 63243 →

Indicates a pending serial number for first unit affected.

Date breaks are used to indicate when a change occurred but a subsequent serial number break was not recorded. This is an arbitrary date usually based on the ECN release and are identified as follows:

→ **D/B 3/00**

Indicates that a change occurred sometime within that month for the item affected.

D/B 3/00 →

Indicates that a change occurred sometime within that month for the item affected.

D/B 3/00 ↔ **D/B 4/00**

Indicates a range of production dates of the item affected.

Contact your local dealer for Hyster lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

For any further information on parts, service, or ordering, consult your local dealer for Hyster lift trucks.