NEW HOLLAND

TRACTOR LOADER

U80

PARTS CATALOG

87632213 NA
Replaces: 87359018 NA

Issued: 01Feb06
Replaced: 01Jan07

NEW HOLLAND

www.newhollandconstruction.com

MidWestTech | New Holland U80 Tractor Loader Parts Catalog | Publication 87632213

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

02 -01	RADIATOR - MOUNTING (MODELS WITHOUT AIR CONDITIONING)
02 -01A	RADIATOR - MOUNTING (MODELS WITH AIR CONDITIONING)
02 -02	RADIATOR ASSY (MODELS WITHOUT AIR CONDITIONING)
02 -02A	RADIATOR ASSY (MODELS WITH AIR CONDITIONING)
02 -03	AIR CLEANER - AIR INTAKE PARTS
02 -04	MUFFLER - EXHAUST SYSTEM (WITH TURBOCHARGER)
02 -05	MUFFLER - EXHAUST SYSTEM (WITHOUT TURBOCHARGER)
02 -06	COLD START SYSTEM
02 -07	ENGINE - MOUNTING
02 -08	WATER PUMP SYSTEM
02 -09	FRONT GEAR COVER
02 -10	MANIFOLDS
02 -11	TURBOCHARGER SYSTEM
02 -12	TURBOCHARGER ASSY
02 -13	OIL FILTER AND COOLER
02 -14	OIL PUMP AND OIL PAN
02 -15	CYLINDER HEAD COVERS
02 -16	CYLINDER HEAD AND VALVE MECHANISM - 4-390
02 -17	CYLINDER HEAD AND VALVE MECHANISM - 4T-390
02 -18	CAMSHAFT
02 -19	CYLINDER BLOCK (WITH TURBOCHARGER)
02 -19A	CYLINDER BLOCK (WITHOUT TURBOCHARGER)
02 -20	CRANKSHAFT
02 -21	FLYWHEEL AND HOUSING
02 -22	PISTONS AND CONNECTING RODS (WITH TURBOCHARGER)
02 -22A	PISTONS AND CONNECTING RODS (WITHOUT TURBOCHARGER)
02 -23	GASKET KIT, VALVE GRIND
02 -24	GASKET KIT, CYLINDER BLOCK
02 -25	GASKET KIT, BASIC SERVICE ENGINE
03 -01	FUEL LINES, RESERVOIR - FILTER, IN-LINE FUEL
03 -02	CONTROLS - THROTTLE, HAND
03 -03	CONTROLS - THROTTLE, FOOT
03 -04	FUEL INJECTION SYSTEM
03 -05	FUEL FILTER
03 -06	FUEL INJECTION PUMP AND DRIVE
03 -07	FUEL INJECTION NOZZLE
04 -01	STARTER
04 -02	ALTERNATOR
04 -03	STARTER MOUNTING - ALTERNATOR MOUNTING
04 -04	HARNESS, ENGINE - MOUNTING AND CONNECTIONS
04 -05	BATTERY - CABLES AND CUTOFF SWITCH
04 -06	BATTERY, DUAL - COLD START
04 -07	HARNESS, FRONT CONSOLE - SWITCHES
04 -08	HARNESS, SIDE CONSOLE - MOUNTING AND CONNECTIONS
04 -09	HARNESS, SIDE CONSOLE - SWITCHES
04 -10	INSTRUMENT PANEL, FRONT - COVERS
04 -11	INSTRUMENT PANEL, SIDE - SWITCHES AND COVERS
04 -12	INSTRUMENT CLUSTER
04 -13	ELECTRICAL - LAMPS, ROPS CANOPY
04 -13A	ELECTRICAL - LAMPS, ROPS CAB
04 -13B	LAMP ASSY - CAB MODELS

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

04 -14	HORN - ALARM, BACKUP
04 -15	BEACON, ROTATING
05 -01	STEERING WHEEL - COLUMN
05 -02	HYDRAULICS - STEERING (MODELS WITHOUT HUSCO LOADER VALVE)
05 -02A	HYDRAULICS - STEERING (MODELS WITH HUSCO LOADER VALVE)
05 -03	STEERING COLUMN
05 -04	CYLINDER ASSY - STEERING
05 -05	AXLE, FRONT - SPINDLES
05 -06	HUB AND BEARINGS, FRONT WHEEL
05 -07	AXLE - MOUNTING
05 -08	AXLE, FRONT - HOUSING
05 -09	AXLE, FRONT - HOUSING, SWIVEL
05 -10	AXLE, FRONT - CYLINDER, STEERING
05 -11	AXLE, FRONT - HUB AND BEARINGS
05 -12	WHEELS, FRONT - TIRES
06 -01	AXLE, FRONT DRIVE - MOUNTING
06 -02	AXLE, FRONT DRIVE - HOUSING
06 -03	AXLE, FRONT DRIVE - HOUSING, SWIVEL
06 -04	AXLE, FRONT DRIVE - CYLINDER, STEERING
06 -05	AXLE, FRONT DRIVE - SHAFTS, AXLE
06 -06	AXLE, FRONT DRIVE - PLANETARY
06 -07	AXLE, FRONT DRIVE - DIFFERENTIAL
06 -08	AXLE, FRONT DRIVE - RING AND PINION
06 -09	DRIVE SHAFT, FRONT AXLE
06 -10	COOLING SYSTEM - TRANSMISSION (MODELS WITHOUT AIR CONDITIONING)
06 -10A	COOLING SYSTEM - TRANSMISSION (MODELS WITH AIR CONDITIONING)
06 -11	TRANSMISSION - MOUNTING
06 -12	TRANSMISSION ASSY - FILTER, OIL
06 -13	TRANSMISSION ASSY (2WD) - HOUSING
06 -14	TRANSMISSION ASSY (4WD) - HOUSING
06 -15	TRANSMISSION ASSY - PUMP, OIL
06 -16	TRANSMISSION ASSY - SHIFTER MECHANISM
06 -17	TRANSMISSION ASSY - SHAFT, IDLER AND PRIMARY
06 -18	TRANSMISSION ASSY - SHAFT, INPUT
06 -19	TRANSMISSION ASSY - SHAFT, SECONDARY
06 -20	TRANSMISSION ASSY (4WD) - SHAFT, OUTPUT
06 -21	TRANSMISSION ASSY (329081A3 OR 329082A3) - VALVE, CONTROL
06 -21A	TRANSMISSION ASSY (87456845 OR 87456846) - VALVE, CONTROL
06 -21B	TRANSMISSION ASSY (87396486, 87396487) - VALVE, CONTROL
06 -22	TRANSMISSION ASSY (4WD) - VALVE, SOLENOID
06 -23	WHEELS, REAR - TIRES
06 -24	AXLE, REAR DRIVE - MOUNTING
06 -25	AXLE, REAR - DIFFERENTIAL LOCK
06 -26	AXLE, REAR DRIVE - HOUSING
06 -27	AXLE, REAR DRIVE - DIFFERENTIAL (86981746 AXLE/ 2 SPIDER DIFFERENTIAL)
06 -27A	AXLE, REAR DRIVE - DIFFERENTIAL (87447233 AXLE/ 4 SPIDER DIFFERENTIAL)
06 -28	AXLE, REAR DRIVE - RING AND PINION
06 -29	AXLE, REAR DRIVE - DIFFERENTIAL LOCK
06 -30	AXLE, REAR DRIVE - PLANETARY
06 -31	DRIVE SHAFT, REAR AXLE
07 -01	AXLE, REAR DRIVE - BRAKE, DIFFERENTIAL

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

07 -02	AXLE, REAR DRIVE - BRAKE, PARKING
07 -03	BRAKE - PEDALS
07 -04	HYDRAULICS - BRAKE MASTER CYLINDER
07 -05	CYLINDER ASSY - BRAKE MASTER
07 -06	CONTROLS - BRAKE, PARKING
08 -01	HYDRAULICS - PUMP, FILTER AND LOADER VALVE (MODELS WITHOUT HUSCO LOADER VALVE)
08 -01A	HYDRAULICS - PUMP, FILTER AND LOADER VALVE (WITH HUSCO LOADER VALVE W/SEPARATE PRIORITY VALVE)
08 -01B	HYDRAULICS - PUMP, FILTER AND LOADER VALVE (WITH HUSCO LOADER VALVE W/BUILT-IN PRIORITY VALVE)
08 -02	HYDRAULICS - COOLER, RETURN LINES AND FILTER
08 -03	HYDRAULICS - CYLINDER, LOADER LIFT
08 -04	HYDRAULICS - CYLINDER, LOADER BUCKET
08 -05	HYDRAULICS - CYLINDER, LOADER CLAM
08 -06	HYDRAULICS - CYLINDER, LOADER CLAM
08 -07	HYDRAULICS - GLIDE RIDE CONTROL
08 -07A	HYDRAULICS - RIDE CONTROL (87433240 SOLENOID VALVE)(MODELS WITH HUSCO LOADER VALVE)
08 -08	HYDRAULICS - COUPLER, LOADER TOOL QUICK
08 -08A	HYDRAULICS - COUPLER, LOADER TOOL QUICK (MODELS WITH HUSCO LOADER VALVE)
08 -09	HYDRAULICS - COUPLER, LOADER TOOL QUICK
08 -09A	VALVE, COUPLER (87435909) - LOADER TOOL
08 -10	HYDRAULICS - HITCH, THREE POINT
08 -11	HYDRAULICS - HITCH LOCK VALVE, THREE POINT
08 -12	HYDRAULICS - VALVE, LASER CONTROL
08 -13	PUMP, EQUIPMENT HYDRAULIC
08 -14	VALVE ASSY - LOADER CONTROL, TWO SPOOL
08 -15	VALVE ASSY - LOADER CONTROL, THREE SPOOL
08 -16	VALVE SECTION - INLET
08 -17	VALVE SECTION - LOADER BUCKET
08 -18	VALVE SECTION - LOADER LIFT
08 -19	VALVE SECTION - OUTLET
08 -20	VALVE SECTION - LOADER CLAM
08 -21	VALVE ASSY - RELIEF, CIRCUIT
08 -21A	VALVE ASSY - LOADER CONTROL, TWO SPOOL (HUSCO - USED WITH SEPARATE PRIORITY VALVE)
08 -21B	VALVE ASSY - LOADER CONTROL, THREE SPOOL (HUSCO - USED WITH SEPARATE PRIORITY VALVE)
08 -21C	VALVE ASSY - LOADER CONTROL, TWO SPOOL (HUSCO - WITH BUILT-IN PRIORITY VALVE)
08 -21D	VALVE ASSY - LOADER CONTROL, THREE SPOOL (HUSCO - WITH BUILT-IN PRIORITY VALVE)
08 -22	VALVE ASSY - HITCH, THREE POINT
08 -23	VALVE ASSY - HITCH, THREE POINT
08 -24	VALVE SECTION - HITCH INLET
08 -25	VALVE SECTION - HITCH LIFT
08 -26	VALVE SECTION - HITCH LIFT
08 -27	VALVE SECTION - HITCH PITCH, TILT AND IMPLEMENT
08 -28	VALVE, FLOW CONTROL - HITCH, THREE POINT

Order the manual at mid-west-tech.com >

TRANSMISSION ASSY (87396486, 87396487) - VALVE, CONTROL

REF	FN	PART NUMBER	YR/SN	QTY	DESCRIPTION
		87396486		1	TRANSMISSION, Two Wheel Drive, Incl. Ref 1 - 23; Also Includes Parts On Figures 06-12 - 06-21B
		87396487		1	TRANSMISSION, Four Wheel Drive, Incl. Ref 1 - 23; Also Includes Parts On Figures 06-12 - 06-22
		87525756		1	KIT, REPAIR, Transmission Control Valve With Jumper harness; Includes (1) 87456968 Forward/Reverse Jumper Harness, Ref 1; Plus (1) 87524409 Control Valve, Ref 1 - 23
1		87456968		1	HARNESS, WIRE, Jumper; If Used; Required On Transmissions Prior To Ones With Deutsch Connector Type Solenoids
		(87524409)		1	Transmission Control Valve, With Improved Snap ring at Flow Divider Area; Incl. Ref 2 - 23
2		NSS		1	NOT SERVICED SEPARATELY, Housing
3		190442A1		1	PLUNGER
4		87456900		1	KIT, SERVICE, Solenoid; Includes (2) Solenoids, (1) Jumper Wire Used For Transmission Prior to Ones With The Solenoids With Plastic Connections; See Figure 06-22, Ref 3 For Solenoids With Bullet Connectors
5		87524436		1	KIT, REPAIR, Seal; Includes (6) O-Rings; Component Parts Not Serviced Separately
7		87530365		1	PLUG
8		(87524441)		1	Valve Body Assembly Kit; Component Parts Not Serviced Separately
9		181251A1		1	COVER, Modulation
10		87524439		1	KIT, REPAIR, Plate; Includes (1) Plate, (2) Gasket, (1) Ball, (1) Spring; Component Parts Not Serviced Separately
11		87524437		1	KIT, REPAIR, Gasket; Includes (4) Gasket Plates; Component Parts Not Serviced Separately
12		87524438		1	KIT, REPAIR, Modulation Valve; Includes (2) Piston, (1) Pin, (3) Spring; Component Parts Not Serviced Separately

MidWestTech | New Holland U80 Tractor Loader Parts Catalog | Publication 87632213 Order the manual at mid-west-tech.com >

VALVE ASSY - HITCH, THREE POINT

REF	FN	PART NUMBER	YR/SN	QTY	DESCRIPTION
					FOUR SPOOL CONTROL VALVE
		392413A1		1	VALVE, CONTROL, Valve Assy With Switch On Lift Spool For Lock Valve, Incl. Ref 1, 2, 3 - 12, If Used
		86981899		1	VALVE, CONTROL, Valve Assy Without Switch On Lift Spool For Lock Valve, Incl. Ref 1, 2A - 12, If Used
1		432849A1		1	COVER ASSY, Inlet Section, See Figure 08-24
2		418955A1		1	VALVE SECTION, HYD, Lift Section, With Switch On Lift Spool For Lock Valve, Service Replacement, See Figure 08-25
2A		419776A1		1	VALVE SECTION, HYD, Lift, Without Switch On Lift Spool For Lock Valve, 86981899 Valve, Used In Production, For Service Order 418955A1, Ref 2, Not Illustrated, See Figure 08-26
3		418956A1		1	VALVE SECTION, HYD, Pitch Section, See Figure 08-27
4		418956A1		1	VALVE SECTION, HYD, Tilt Section, See Figure 08-27
5		418956A1		1	VALVE SECTION, HYD, Implement Section, See Figure 08-27
		418957A1		1	COVER ASSY, Outlet, Incl. Ref 6 - 10
6		419343A1		1	HOUSING
7		86590562		2	PLUG, Hex Soc, 3/4"-16 ORB, 3/4 Or, Incl. Ref 8
8		128825		1	O-RING, 8-1, 90 Duro, .644" ID x .087" Thk
9		86625138		1	PLUG, Hex Soc, 7/8"-14 ORB, Includes Ref 10
10		167269		1	O-RING, 10-1, 90 Duro, .755" ID x .097" Thk
11		432852A1		1	KIT, Stud
11		432848A1		1	KIT, Kit, Component Parts Not Serviced Separately, Includes (4) Tie Bolts, (8) Nuts, (2) Brackets and (6) Seals
12		418958A1		5	KIT, Kit, Section Seals, Component Parts Not Serviced Separately, Includes (4) O-Rings
		REF			INSTRUCTION, To Convert Four Spool Valve to Five Spool Valve, Order 430409A1 Valve Section Kit

MidWestTech | New Holland U80 Tractor Loader Parts Catalog | Publication 87632213 Order the manual at mid-west-tech.com >

CYLINDER ASSY - LOADER CLAM

REF	FN	PART NUMBER	YR/SN	QTY	DESCRIPTION
1		86981834		1	HYDRAULIC CYLINDER, Loader Clam, Right-Hand, 76 ID x 231 mm strk, Incl. Ref 2 - 23; With Tube Eye Bushings; No Longer Available, Order 86984790 Cylinder; No Longer Available, Order 87455459 Cylinder
1A	1	86984790		1	HYDRAULIC CYLINDER, Loader Clam, Right-Hand, 76 ID x 231 mm strk, Incl. Ref 2A, 3 - 23; Without Tube Eye Bushings; No Longer Available, Order 87455459 Cylinder
1		87455459		1	HYDRAULIC CYLINDER, Loader Clam, Right-Hand, 76 ID x 231 mm strk; Incl. Ref 2 - 23; With Tube Eye Bushings
1		86981836		1	HYDRAULIC CYLINDER, Loader Clam, Left-Hand, 76 ID x 231 mm strk, Incl. Ref 2 - 23; With Tube Eye Bushings; No Longer Available, Order 86984784 Cylinder; No Longer Available, Order 87455458 Cylinder
1A		86984784		1	HYDRAULIC CYLINDER, Loader Clam, Left-Hand, 76 ID x 231 mm strk, Incl. Ref 2A, 3 - 23; Without Tube Eye Bushings; No Longer Available, Order 87455458 Cylinder
1		87455458		1	HYDRAULIC CYLINDER, Loader Clam, Left-Hand, 76 ID x 231 mm strk, Incl. Ref 2 - 23; With Tube Eye Bushings
2		86982355		1	SLEEVE, HYD CYL, 86981834 Right-Hand Cylinder, Incl. Ref 3 Bushings
2A		1346191C2		1	SLEEVE, HYD CYL, Tube; 86984790 Right-Hand Cylinder; Tube Without Bushings
2		87454907		1	TUBE ASSY., Tube; 87455459 Right-Hand Cylinder; Incl. Ref 3 Bushings
2		86982356		1	SLEEVE, HYD CYL, 86981836 Left-Hand Cylinder, Incl. Ref 3 Bushings
2A		1346192C2		1	SLEEVE, HYD CYL, Tube; 86984784 Left-Hand Cylinder; Tube Without Bushings

(1) The cylinder assembly part number is stamped on some cylinder glands or tubes.

MidWestTech | New Holland U80 Tractor Loader Parts Catalog | Publication 87632213 Order the manual at mid-west-tech.com >