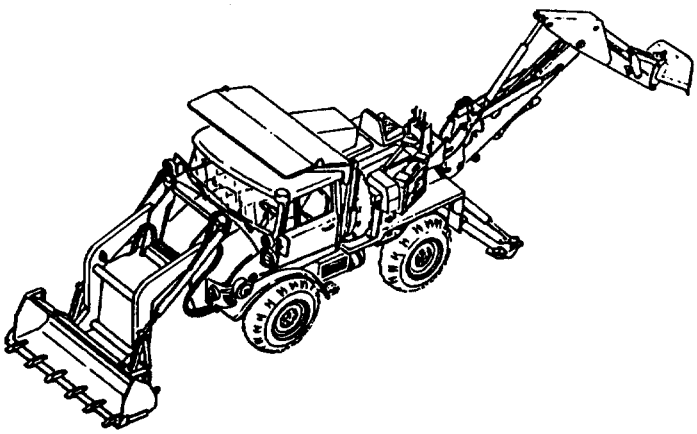
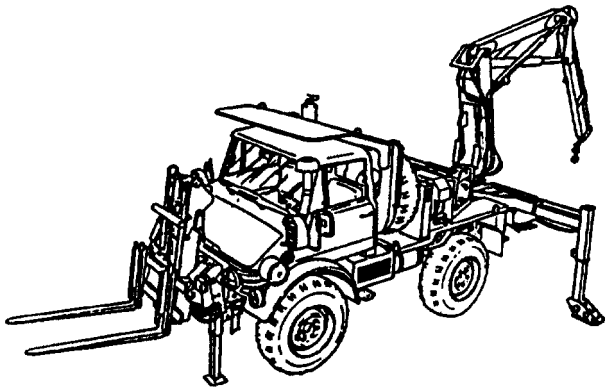
TECHNICAL MANUAL

UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR TRACTOR, WHEELED, 4 X 4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) NSN 2420-01-160-2754 (EIC: EDL)



AND

TRACTOR, WHEELED, 4 X 4 DED
HIGH MOBILITY MATERIAL HANDLER (HMMH)
NSN 2420-01-205-8636 (EIC: EED)
Volume 1 of 2



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HEADQUARTERS, DEPARTMENT OF THE ARMY

30 NOVEMBER 2001

HEADQUARTERS,
DEPARTMENT OF THE ARMY,
Washington, D. C., 30 November 2001

TECHNICAL MANUAL

UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
FOR
TRACTOR, WHEELED, 4 X 4 DED
SMALL EMPLACEMENT EXCAVATOR (SEE)
NSN 2420-01-160-2754 (EIC: EDL)
AND
TRACTOR, WHEELED, 4 X 4 DED
HIGH MOBILITY MATERIAL HANDLER (HMMH)
NSN 2420-01-205-8636 (EIC: EED)
Volume 1 of 2

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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	Backhoe Boom Cylinder Hydraulic Lines and Fittings	0288 00
	Backhoe Dipper Cylinder Hydraulic Lines and Fittings	0289 00
	Backhoe Bucket Cylinder Hydraulic Lines and Fittings	0290 00
	Crane Supply and Return Lines and Fittings	0291 00
	Crane Turntable Motor Lines and Fittings	0292 00
	Crane External End Extension Cylinder Hydraulic Lines and Fittings	0293 00
	Crane Inner Boom Lift Cylinder Hydraulic Lines and Fittings	0294 00
	Crane Mast Locking Cylinder Hydraulic Lines and Fittings	0295 00
	Crane Outer Boom Cylinder Hydraulic Lines and Fittings	0296 00
GROUP 2406	Hydraulic Lines and Fittings - Continued	
	Crane Horizontal Outrigger Cylinder Hydraulic Lines and Fittings	0297 00
	Crane Vertical Outrigger Cylinder Hydraulic Lines and Fittings	0298 00
	Hydraulic Suspension Lockout Lines and Fittings, and Fluid Filter 000 815 11 69	0299 00
	Hydraulic Suspension Lockout Lines and Fittings	0300 00
GROUP 2407	Hydraulic Cylinders –	
	Loader Bucket Rollback Cylinder Assembly 627-01042-30M	0301 00
	Loader Boom Cylinder Assembly 627-01041-30M	0302 00
	Backhoe Bucket Cylinder Assembly	0303 00
	Backhoe Boom Cylinder Assembly	0304 00
	Backhoe Swing Cylinder Assembly	0305 00
	Backhoe Dipper Cylinder Assembly	0306 00
	Backhoe Stabilizer Cylinder Assembly	0307 00
	Backhoe/Crane Latch Cylinders	0308 00
	Backhoe/Crane Tilt Cylinder (J.I. Case)	0309 00
	Backhoe/Crane Tilt Cylinder (Aeroquip)	0310 00
	Forklift Tilt Cylinder Assembly	0311 00
	Forklift Rotator Cylinder Assembly	0312 00
	Forklift Lift Cylinder Assembly	0313 00
	Crane External End Extension Cylinder Assembly	0314 00
	Crane Inner Boom Lift Cylinder Assembly	0315 00
	Crane Mast Locking Cylinder Assembly	0316 00
	Crane Outer Boom Cylinder Assembly	0317 00
	Crane Horizontal Outrigger Cylinder Assembly	0318 00
	Crane Vertical Outrigger Cylinder Assembly	0319 00

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		WP Sequence No.
GROUP 2408	Liquid Tanks or Reservoirs –	
	Hydraulic Tank Assembly (21.0 Gallon)	0320 00
	Hydraulic Tank Assembly (11.0 Gallon)	0321 00
	Hydraulic Oil Cooler	0322 00
GROUP 47, 4701	Gauges (Non-Electrical), Weighing and Measuring Devices – Instruments (Speed and Distance) – Speedometer and STE/ICE-R Tachometer Drive Shafts	0323 00
GROUP 4702	Gauges, Mountings, Lines and Fittings – Inclinometer	0324 00
GROUP 4703	Hourmeter – Hourmeter	0325 00
GROUP 70, 7005	Machine Tools and Related Equipment, Drills, Power Wrenches (Other Than Pneumatic) –	
	Hammer Drill	0326 00
	Hammer Drill	0327 00
	Drills, Power Wrenches (Other Than Pneumatic) – Pneumatic Impact Wrench IW12140V, Impact Mechanism 08021, Pile Drive Hammer Case 08071, Hydraulic Parts Kit 08068, Spur Gear 07989, and Hose/Coupler Assembly 10293	0328 00
GROUP 7006	Power Hammers (Other Than Pneumatic) – Paving Breaker VR67130M, Manual Control Handle 06185, Hydraulic Cylinder 04060, Pneumatic Tank Valve AN6287-1, and Breaker Foot Assembly 04598	0329 00
GROUP 7008	Power Saws (Other Than Pneumatic) –	
	Chain Saw CS06120M, and Handle Assembly 07693	0330 00
	Chain Saw and Mechanical Assembly Housing 07652	0331 00
GROUP 74, 7412	Crane, Shovels, and Earth Moving Equipment Components, – Backhoe Boom and Crane Boom D132948	0332 00
	Backhoe Attachments –	
	Rig Hoe Bucket Connecting Link D126492, Rig Connecting Link D89620, and Backhoe Dipper Assembly D140280	0333 00
	Scoop Type L Scoop Bucket 104327, and Scoop Type L Ripper Bucket 020-185	0334 00
	Control Assembly 4327-68IN-30024-1-1, Back Latch Assembly 419 550 73 75, Back Latch Assembly 419 550 77 40	0335 00
	Backhoe Boom Latch	0336 00
	Swing Tower Assembly D136868	0337 00
	Stabilizer Leg Assembly D94215 and Swing Beam D94401	0338 00
GROUP 7417	Hoists –	
	Mast Assembly 41706064, Crane Boom 52706059, and Crane Mast Base 52706039	0339 00
	Inner Boom Assembly 41907454 and Crane Boom 52707453	0340 00
	Boom Assembly 41707476 and Crane Boom 52707470	0341 00
	Boom Extension Assembly 41707473	0342 00
	Base/Outriggers Assembly 41706065	0343 00
	Base/Outrigger Assembly41706065 and Rotation Lock Lever Linkage	0344 00

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		WP Sequence No.
GROUP 7417	Hoists – Continued	
	Base/Outrigger Assembly 41706065, and Outrigger Base Assembly 52706035	0345 00
	Crane Travel Lock	0346 00
GROUP 7437	Loader Bucket Assembly or Forklift – Loader Frame and Type L Scoop Bucket 677-01739-40	0347 00
GROUP 2604	Tools and Test Equipment, Special Tools – Unit Special Tools, General Mechanic's Tool Kit 419 000 74 58, and Cab Tilting Device 419 580 05 51 00	0348 00
	Special Tools –	
	Unit Special Tools, General Mechanic's Tool Kit 419 000 74 58, and Vehicle Support Stand 419 580 70 18	0349 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 75 58 (Figure 1)	0350 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 75 58 (Figure 2)	0351 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 75 58 (Figure 3)	0352 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 75 58 (Figure 4)	0353 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 75 58 and Universal Puller Kit 11275	0354 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 76 58 (Figure 1)	0355 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 76 58 (Figure 2)	0356 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 76 58 (Figure 3)	0357 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 76 58 (Figure 4)	0358 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 76 58 (Figure 5)	0359 00
	Unit Special Tools, General Mechanic's Tool Kit 419 000 81 58, Cooling System Detector 001 589 83 21 00, and Cab Tilting Service 419 580 05 51 00	0360 00
	Unit Special Tools, General Mechanic's Tool Kit 419 000 81 58 and Vehicle Support Stand 419 580 70 18	0361 00
	Unit Special Tools General Mechanic's Tool Kit 419 000 82 58, and Vehicle Support Stand 419 580 70 18	0362 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 83 58 (Figure 1)	0363 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 83 58 (Figure 2)	0364 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 83 58 (Figure 3)	0365 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 84 58	0366 00

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		WP Sequence No.
GROUP 2604	Tools and Test Equipment, Special Tools – Continued	
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 84 58 and Universal Puller Kit 11275	0367 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 85 58, Spanner Wrench 3Y140510, and Spanner Wrench 678602	0368 00
	Direct Support Special Tools, General Mechanic's Tool Kit 419 000 85 58 and Bushing Inserter and Remover 92091200	0369 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 86 58 (Figure 1)	0370 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 86 58 (Figure 2)	0371 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 86 58 (Figure 3)	0372 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 86 58 (Figure 4)	0373 00
	General Support Special Tools, General Mechanic's Tool Kit 419 000 86 58 (Figure 5)	0374 00
GROUP 94.9401	Repair Kits	0375 00
GROUP 95, 9501	Bulk Kits	0376 00
National Stock Number Index		0377 00
Part Number Index		0378 00

REAR MATTER

UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

SMALL EMPLACEMENT EXCAVATOR (SEE) AND HIGH MOBILITY MATERIAL HANDLER (HMMH)

INTRODUCTION

SCOPE

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit, Direct Support and General Support Maintenance of the SEE/HMMH. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

GENERAL

In addition to the Introduction work package, this RPSTL is divided into the following work packages:

1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters, and bolts are listed with the component on which they mount. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for repairable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.

2 Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.

3 Cross-reference Indexes Work Packages. There are two cross reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES – Continued

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

Source Code	**Maintenance Code**		**Recoverability Code**
xx	xx		x
1st two positions: How to get an item.	3rd position: Who can install, replace, or use the item.	4th position: Who can do complete repair* on the item.	5th position: Who determines disposition action on unserviceable items.

*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Source Code	**Application/Explanation**
PA PB PC PD PE PF PG	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code. **NOTE** Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.

Source Code	Application/Explanation
MO-Made at unit/ AVUM level MF-Made at DS/ AVIM level MH-Made at GS level ML-Made at SRA MD-Made at depot	Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.
AO-Assembled by unit/AVUM level AF-Assembled by DS/AVIM level AH-Assembled by GS level AL-Assembled by SRA AD-Assembled by depot	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.
XA	Do not requisition an XA-coded item. Order the next higher assembly. (Refer to NOTE below.)
XB	If an item is not available from salvage, order it using the CAGEC and P/N.
XC	Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N.
XD	Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those items source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES – Continued

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance.

Maintenance Code	Application/Explanation
C	Crew or operator maintenance done within unit/AVUM maintenance.
O	Unit level/AVUM maintenance can remove, replace, and use the item.
F	Direct support/AVIM maintenance can remove, replace, and use the item.
H	General support maintenance can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot can remove, replace, and use the item.

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Maintenance Code	Application/Explanation
O	Unit/AVUM is the lowest level that can do complete repair of the item.
F	Direct support/AVIM is the lowest level that can do complete repair of the item.
H	General support is the lowest level that can do complete repair of the item.
L	Specialized repair activity is the lowest level that can do complete repair of the item.
D	Depot is the lowest level that can do complete repair of the item.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. No parts or special tools are authorized for maintenance of B-coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

Recoverability Code	Application/Explanation
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
O	Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit level.
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

1. The federal item name, and, when required, a minimum description to identify the item.

2. P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.