



Excavator Monthly



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TACOM's Excavation Equipment Newsletter **July 2004**

This is not an official publication

Excavator Team Introduction

Please allow us to introduce ourselves. We are TACOM's Excavator Team and we would like to welcome you to our first monthly newsletter. We are a part of the Construction Equipment Group in the Deployment Equipment Product Support Integration Directorate (PSID). Our PSID is part of TACOM's Integrated Logistics Support Center (ILSC). We provide logistic support to Program Manager, Combat Engineer Systems (PM-CES) during the acquisition and fielding process. We continue with Sustainment support once the vehicle is fielded and management responsibilities are transitioned to our office. We are involved throughout the entire life cycle of the equipment. As the Excavator Team, we provide supply and maintenance support for the following excavation equipment:

- JD410 – Tractor, Wheeled, Industrial - NSN 2420-00-567-0135
- FLU 419, Small Emplacement Excavator (SEE) - NSN 2420-01-160-2754,
- FLU 10344, High Mobility Materiel Handler (HMMH) - NSN 2420-01-205-8636
- 230LCR, Hydraulic Excavator (HYEX) Type I – NSN 3805-01-463-0804
- 230LCRD, Hydraulic Excavator (HYEX) Type II (with Rock Drill) – NSN 3805-01-463-0806
- 330LCR, Hydraulic Excavator (HYEX) Type III – NSN 3805-01-463-0805
- HMEV, Interim High Mobility Engineer Excavator (IHMEE) – NSN 2420-66-148-7692
- 1650EH-MS, Low Earth Auger (for the SEE) – NSN 2590-01-384-6857
- High Mobility Engineer Excavator (HMEE) – Model number and NSN – TBD. This program is currently in Phase 1 (System Demonstration) of the contract and First Unit Equipped is projected for 4th quarter FY 06.

The purpose of this newsletter is to keep you informed of issues and events that are important in the Excavator community. Excavator team points of contact are listed on the last page. For questions or comments on this article, call DSN 786-7215/ Comm. 586-574-7215.

Excavator Equipment Electronic Technical Manuals (ETM's)

Here is a current listing of the various technical manuals available for our equipment. These links will take you directly to LOGSA's web site for electronic manuals. Some of these manuals may require a login ID and password to view them.

SEE/HMMH

PIN	TM/EM Number	Current Change	Publication Title (partial)
067339	TM 5-2420-224-10	2	TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEME EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
067392	TM 55-2420-224-14		TRANSPORTABILITY GUIDANCE, SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754), HIGH MOBILITY ENTRENCHER (HME) (2420-01-228-8610), HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
068063	TM 5-2420-224-10-HR		TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
068064	TM 5-2420-224-20-1	2	TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
071466	TM 5-2420-224-20-2	2	TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
071467	TM 5-2420-224-34	1	TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
071468	LO 5-2420-224-12		TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (2420-01-205-8636)
079430	TM 5-2420-224-24P-1		TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (NSN 2420-01-205-8636) (EIC: EED) VOL 1 OF 2
079431	TM 5-2420-224-24P-2		TRACTOR, WHEELED, 4X4 DED SMALL EMPLACEMENT EXCAVATOR (SEE) (NSN 2420-01-160-2754) (EIC: EDL) AND TRACTOR, WHEELED, 4X4 DED HIGH MOBILITY MATERIAL HANDLER (HMMH) (NSN 2420-01-205-8636) (EIC: EED) VOL 2 OF 2

JD410

PIN	TM/EM Number	Current Change	Publication Title (partial)
058832	TM 5-2420-222-10		TRACTOR, WHEELED, DED LOADER, BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC EARTH AUGER ATTACHMENT (JOHN DEERE JD-410(CCE)) W/WAIN-ROY BUCKET, HUGHES IMPACTOR AND DAUSER EARTH DRILL (NSN 2420-00-567-0135)
059210	TM 5-2420-222-34P	1	TRACTOR, WHEELED; DED, LOADER BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC EARTH AUGER ATTACHMENT (JOHN DEERE MODEL JD410 (CCE)) WITH BUCKET, IMPACTOR AND EARTH DRILL, (NSN 2420-00-567-0135)
059555	TM 5-2420-222-20P	1	TRACTOR, WHEELED, DED, LOADER BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC EARTH AUGER ATTACHMENT, JOHN DEERE MODEL J (CCE) WITH BUCKET, IMPACTOR, AND EARTH DRILL (NSN 2420-00-567-0
062486	LO 5-2420-222-12		TRACTOR, WHEELED, DED LOADER BACKHOE: WITH HYDRAULIC IMPACT TOO WITH HYDRAULIC EARTH AUGER ATTACHMENT, JOHN DEERE MODEL JD410 (WITH BUCKET, IMPACTOR, AND EARTH DRILL (NSN 2420-00-567-0135)
062488	TM 5-2420-222-20-1	1	TRACTOR, WHEELED (DED) LOADER BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC EARTH AU ATTACHMENT JOHN DEERE MODEL JD410 (CCE) WITH BUCKET, IMPACTOR EARTH DRILL (NSN 2420-00-567-0135)
062489	TM 5-2420-222-20-2	1	TRACTOR, WHEELED (DED) LOADER BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC EARTH AU ATTACHMENT JOHN DEERE MODEL JD410 (CCE) WITH BUCKET, IMPACTOR EARTH DRILL (NSN 2420-00-567-1035)
062490	TM 5-2420-	1	TRACTOR, WHEELED (LOADER BACKHOE W/HYDRAULIC IMPACT TOOL AND W/HYDRAULIC

	222-20-3	EARTH AU ATTACHMENT JOHN DEERE MODEL JD410 (CCE) WITH BUCKET, IMPACTOR EARTH DRILL (NSN 2420-00-567-1035)
070538	TM 5-2420-222-34	TRACT WHEELED, DED. LOADER BACKHOE, WITH HYDRAULIC IMPACT TOOL AND W/ HYDRAULIC EARTH AUGER ATTACHMENT, JOHN DEERE MODEL JD410 (CCE) WITH BUCKET, IMPACTOR, AND EARTH DRILL (NSN 2420-00-567-0135)

230LCR and 230LCRD (HYEX Type I and II)

PIN	TM/EM Number	Current Change	Publication Title (partial)
077618	TM 5-3805-280-10		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 230LCR NSN 3805-01-463-0804 AND MODEL 230LCRD WITH ROCK DRILL NSN 3805-01-463-0806
077619	TM 5-3805-280-24-1		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 230LCR NSN 3805-01-463-0804 AND MODEL 230LCRD WITH ROCK DRILL NSN 3805-01-463-0806
077620	TM 5-3805-280-24-2		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 230LCR NSN 3805-01-463-0804 AND MODEL 230LCRD WITH ROCK DRILL NSN 3805-01-463-0806
077621	TM 5-3805-280-24P		MAINTENANCE PARTS LIST FOR HYDRAULIC EXCAVATOR JOHN DEERE MODEL 230LCR NAN 3805-01-463-0804 AND MODEL 230LCRD WITH ROCK DRILL NSN 3805-01-463-0806

330LCR (HYEX Type III)

PIN	TM/EM Number	Current Change	Publication Title (partial)
077622	TM 5-3805-281-10		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 330LCR NSN 3805-01-463-0805
077623	TM 5-3805-281-24-1		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 330LCR
077624	TM 5-3805-281-24-2		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 330LCR
077625	TM 5-3805-281-24P		HYDRAULIC EXCAVATOR JOHN DEERE MODEL 330LCR NSN 3805-01-463-0805

1650EH-MS, Lowe Earth Auger (for the SEE)

PIN	TM/EM Number	Current Change	Publication Title (partial)
074042	TM 5-2590-512-13&P		EARTH AUGER MODEL 1650EH-MS, LOWE MANUFACTURING COMPANY (NSN 2950-01-384-68 P/N 1650 EH-MS, CONTRACT DAAE07-93-C-1034, CAGEC ONAG9)

HMEV, Interim High Mobility Engineer Excavator (IHMEE)

PIN	TM/EM Number	Current Change	Publication Title (partial)
080847	TM 5-2420-230-10		OPERATOR'S MANUAL FOR INTERIM HIGH-MOBILITY ENGINEER EXCAVATOR (IHMEE) NSN 2420-66-148-7692
080848	TM 5-2420-230-24-1		INTERIM HIGH-MOBILITY ENGINEER EXCAVATOR (IHMEE) NSN 2420-66-148-7692
080849	TM 5-2420-230-24-2		INTERIM HIGH-MOBILITY ENGINEER EXCAVATOR (IHMEE) NSN 2420-66-148-7692
080850	TM 5-2420-230-24P		INTERIM HIGH-MOBILITY ENGINEER EXCAVATOR (IHMEE) NSN 2420-66-148-7692
080851	TB 5-2420-230-14		INTERIM HIGH-MOBILITY ENGINEER EXCAVATOR (IHMEE) TRACTOR, WHEELED, INDUSTRIAL (NSN 2420-66-148-7692) CONTRACT NUMBER DAAE07-02-C-T015

For questions or comments on this article, call DSN 786-7420/ Comm. 586-574-7420.

Construction Equipment Group and Excavator News and Information Web Pages

Take a few minutes and visit the following web sites. First is the Construction Equipment Group web site at: <http://tri.army.mil/lc/cj/cjc/cegroup.htm>. From there, click on the News and Information link, and then scroll down to the Excavators-SEE link, or go to <http://tri.army.mil/lc/cj/cjc/news-excavators.htm>. You'll find over 35 articles regarding excavation equipment. For questions or comments on this article, call DSN 786-7215/ Comm. 586-574-7215.

SEE/HMMH Wall Chart Wiring Diagram

The SEE/HMMH Wall Chart Wiring Diagram is available through the supply system. The wiring diagram is printed on heavy laminated plastic and is available using NSN **7610-01-475-7996**. The cost for the Wall Chart Wiring Diagram is approximately \$15.00. The contractor for the SEE (Freightliner) made the item available as a maintenance aid due to frequent requests for the diagram and its usefulness to the mechanics while performing troubleshooting and repairs to the vehicle. For questions or comments on this article, call DSN 786-7420/ Comm. 586-574-7420.

Starter and Alternator – HYEX Types I, II, and III

The starters and alternators identified in the HYEX Type I, II & III parts manuals (TM 5-3805-280-24P and 5-3805-281-24P) are incorrect. Listed below are the correct part numbers and NSN's. These starters and alternator are used on all three Types of HYEX as well as the Type II air compressor engine.

Nomenclature	Part Number	NSN
Starter (new)	RE501150	2920-01-510-1834
Starter (remanufactured)	TY24443	no NSN at this time ⁽¹⁾
Alternator (remanufactured)	TY6798	6115-01-473-7862
<i>⁽¹⁾ If a remanufactured starter is required, local purchase at John Deere dealer or supplier.</i>		

We will update the TM with the correct part and NSN information during the next change or revision. Until then, please annotate your TM with this change. For questions or comments on this article, call DSN 786-7452/ Comm. 586-574-7452.

SEE Engines and Transmissions

If anyone has any unserviceable SEE engines and/or transmissions, please turn them in. In the case of the SEE engine, brand new engines for a late-1980's vehicles are no longer available. We are in need of the unserviceable assets to repair and replenish our stock. For questions or comments on this article, call DSN 786-7454/ Comm. 586-574-7454.

SEE/HMMH Schematics and Diagrams

Reference: [Unit/Maintenance Student Handout](#) (PDF format)

The referenced attachment contains a training aid for the Small Emplacement Excavator (SEE) vehicle. This training aid contains electrical, hydraulic and air system schematics as well as identifying component locations. This product is a good supplement to other SEE manuals. For questions or comments on this article, call DSN 786-7452/ Comm. 586-574-7452.

NSN Change for SEE/HMMH Wiring Harnesses

Two of the SEE/HMMH wiring harnesses have been replaced with new, color-coded harnesses. First is the Alternator wiring harness, Figure 85, item 1 of TM 5-2420-224-24P-1. NSN 5995-01-244-2590 has been replaced by NSN 5995-01-503-8640. Second is the main wiring harness, Figure 102, item 1 of TM 5-2420-224-24P-1. NSN 5995-01-244-2591 has been replaced by NSN 6150-01-496-5644. These new harnesses are color-coded and marked with the same wire numbers as the original harnesses. Therefore, the original wiring diagrams can still be used. We will update the TM with the correct part and NSN information during the next change or revision. Until then, please annotate your TM with this change. For questions or comments on this article, call DSN 786-7420/ Comm. 586-574-7420.

DA Form 2408-9's for RECAP SEE's

We've had a couple of Units call us looking for their 2408-9's for their RECAP SEE's. What we've found out is that Red River Army Depot (RRAD) is over-packing the forms on the vehicle when they ship them. However, it is not the old cardboard form we are all familiar with. RRAD is using DA Form 2408-9-R-E. Look for the form in a weather resistant package (a.k.a. zip lock bag) in the driver's door pocket. For questions or comments on this article, call DSN 786-7454/ Comm. 586-574-7454.

Change 2 to the SEE/HMMH Manuals

Please note that Change 2 to TM 5-2420-224-10, TM 5-2420-224-20-1, and TM 5-2420-224-20-2 is now available. The main focus of this Change was to incorporate the lubrication instructions from LO 5-2420-224-12 into the Operator's and Maintenance manuals. If you look at DA Pam 25-30, you will find that the SEE/HMMH LO has been rescinded. Here is a link to the web based DA Pam: http://www.usapa.army.mil/pamdocs/pam2530_main.htm
For questions or comments on this article, call DSN 786-7452/ Comm. 586-574-7452.

SEE RESET Program

Did you know that there is a RESET program available for SEE's returning from Deployment? For the details of the program, call DSN 786-7454/ Comm. 586-574-7454.

HYEX RESET Program

Did you know that there is also a RESET program available for HYEX's returning from Deployment? For the details of the program, call DSN 786-8851/ Comm. 586-574-8851.

Hydraulic Excavator with Rock Drill (HYEX Type II) Repair

We have received reports from the field identifying problems with the mounts and mounting hardware for the air compressor engine, air compressor and separator tank on the HYEX Type II. The reports describe occurrences of loose mounting hardware, damaged air compressor engine mounts, damaged air compressor mounts, and damaged separator tank mounts.

A joint effort between the PM, John Deere, and Ingersoll-Rand (IR) was conducted to develop a repair to this problem. IR has developed a kit to repair the HYEX Type II and will be contacting units to implement the repair. Currently there are a total of 31 vehicles fielded, with no new procurements scheduled. Local IR and John Deere authorized service centers will be repairing the vehicles, at no cost to the government. Efforts will be made to repair deployed vehicles. This repair will affect technical manuals, with minimal additional provisioning expected. The HYEX technical manuals will be updated during the next revision/change. An article will be developed and posted on the construction equipment website <http://tri.army.mil/lc/cj/cjc/cegroup.htm> identifying all replacement parts.

Until the repair is accomplished, units should pay special attention to the air compressor, air compressor engine and mount/mounting hardware. During Preventative Maintenance Checks and Services (PMCS) inspections, be aware of the existing air compressor problems. Repairs began in FY 04 and should be completed in FY 05. For questions or comments on this article, call DSN 786-7452/ Comm. 586-574-7452.

Sending SEE's into the RECAP Program

When you send your SEE to RRAD for RECAP, please make sure the vehicle is as complete as possible, minus the BII and COEI. RRAD is receiving a lot of vehicles with parts missing, especially hoods. They have even received SEE's without the FOPS, Front end loaders or backhoes. These missing parts and components add unexpected dollars to the RECAP program. And it's not too late. If you've already sent your vehicle but have pieces of it at the Unit, send them to RRAD instead of throwing them out. For questions or comments on this article, call DSN 786-7454/ Comm. 586-574-7454.

