

Spares source for military vehicles. Can't see the images? [Click here for the web version.](#)

# PIPELINE

SPARES AND SERVICES NEWS YOU CAN USE



WHO ARE WE?  
WE HELP KEEP YOUR VEHICLES RUNNING TO KEEP YOUR MISSIONS ROLLING.

SEPTEMBER 2009

WWW.NAVISTARDEFENSE.COM

#### MILITARY VEHICLE OF THE DAY

HEMTT: Keep Hoses Cool with Regular PM

#### THE FLANK

LED Lighting for 50X Longer Life Cycles

#### DID YOU KNOW?

Reset/Refurbish Those HMMWVs with ReNEWed® Transmissions

#### THE FLANK

#### LED Lighting for 50X Longer Life Cycles

Sustaining the warfighter takes reliability and readiness, and LED lighting delivers with faster startup, low current draw and 100,000-hour life cycles compared to just 2K with standard incandescent.

For repair or reset of HMMWVs, FMTVs, HEMTTs or any vehicle, Navistar Defense offers the deepest LED inventory around. In fact, our lights resource is our Supplier of the Year.

## NOT WORTH THE RISK: CHINESE COUNTERFEIT HMMWV ENGINE BLOCKS



These photos show a block stamped with the OEM stamping of the Navistar Diamond Road logo. The Chinese aftermarket blocks usually will have no stamping.

Reports continue to surface on dangerous fakes — Chinese-made HMMWV engine blocks made to look like they're genuine OEM products. As they infiltrate the supply chain, risk is high and failure often higher—some sources report failure rates upwards of 20 percent.

These knockoffs are dimensionally out of spec in many areas — and in a unit like an engine with multiple working parts, high friction and pistons moving up and down, fit is critical.

Also of concern: The counterfeit blocks aren't up to spec on metallurgy — they're missing the critical moly (molybdenum) component that's in the metal composition of all new blocks. This significantly affects block strength and durability.

#### LOOK FOR GENUINE OEM PARTS

Always be sure that you're getting genuine OEM parts. In this case, getting new HMMWV engine blocks. The biggest tipoff is the logo: genuine OEM parts will have the International® diamond logo stamped on the block and head.

The photos above show an engine block stamped with the OEM stamping of the Navistar Diamond Road logo. The Chinese aftermarket blocks usually will have no stamping where the Diamond Road logo or a "tear drop" logo is placed.

Watching for the International logo ensures that you've got an upgraded block built to the latest designs and specs. All International remanufactured products are built with new blocks and

Built to stand up to the toughest conditions, each solid-state technology unit is fully epoxy-sealed for better shock and vibration endurance, with impact-resistant polycarbonate lenses and housing assemblies.

Plus LED offers brighter, crisper, whiter light to cut through desert dust and mountain fog and extend projection distance.

For head lamps (07370 24v & 07380 12v) and assemblies, signal lighting (07411 or 07412) or blackout drive lamps (07320), contact [military.parts@navistar.com](mailto:military.parts@navistar.com) or in CONUS find a local International dealer at [www.internationaltrucks.com](http://www.internationaltrucks.com).

cylinder heads — we never reuse either part.

For your HMMWV reset or refurbish, go for genuine U.S. made OEM engine blocks. When you buy from your local International dealer, you have the confidence of OEM remanufactured quality under the hood, and you know you're keeping your dollars in state — supporting the economy and maintaining jobs at home.

Contact [military.parts@navistar.com](mailto:military.parts@navistar.com) or in CONUS find a local International dealer at [www.internationaltrucks.com](http://www.internationaltrucks.com) today.

### MILITARY VEHICLE OF THE DAY

#### HEMTT:

Keep Hoses Cool with Regular PM



When it comes to keeping that workhorse, the HEMTT, operation-ready, look to Navistar Defense.

The 10-ton 8x8 HEMTT (Heavy Expanded Mobility Tactical Truck) has delivered superior heavy transport for combat vehicle and

### DID YOU KNOW?

Get Smart. Get Quality for Less. Reset/Refurbish Those HMMWVs with ReNEWed® Transmissions



In Iraq, military HMMWVs travel upwards of 100K miles a year — up to 5 times the peacetime rate — so chances are when they're ready to come home, they're ready for a new transmission.

Quality is imperative when it comes to

weapons systems supply and resupply since 1982. To keep that monster moving, try this tip: How to recognize coolant hoses weakened by the rigors of Iraqi and Afghani climates and missions.

Coolant (radiator) hoses live in 220-degree-plus temperatures and withstand thousands of gallons of coolant being pumped through them every day. Start by conducting a pressure test of the system with tools such as the Kent-Moore Coolant Pressure Tester (J-24460-01) during service and PM.

The deterioration process, known as electrochemical degradation, or ECD, produces fine cracks, or striations, in the tube wall. These fine cracks extend from the inside to the outside of the hose tube, near one or both ends of the hose. The coolant seeps through these cracks and attacks the hose reinforcement as it wicks along the length of the hose. The condition eventually results in a pinhole leak, or a burst of hose at failure.

ECD is usually seen in equipment cooling systems that are not on a standard 4-year replacement interval as recommended by most major hose manufacturers.

#### The "Squeeze Test"

The best way to check for the effects of ECD is to squeeze the hose near the clamps or connectors using the following procedures recommended by coolant hose manufacturers:

1. Make sure the engine is cool.
2. Use fingers and thumb to check for weakness, not the whole hand.
3. Squeeze near the connectors. ECD occurs within 2 inches of the ends of the hose — not in the middle.
4. Check for any difference in the feel between the middle and ends of the hose. Gaps, or channels, can be felt

HMMWV reset or refurbishment, and that's where ReNEWed® transmissions come in — with 100 percent dynamometer testing, they're ready to go when you are.

ReNEWed transmissions are built to exacting specs with new and recycled components that rival the factory original. These US-built units feature a nationwide warranty, ISO 9001:2001 quality certification and full valve body assembly and testing on a dedicated lean manufacturing cell.

Every ReNEWed HMMWV transmission comes backed by the full power of Navistar Defense technical training, and diagnostic application and installation experts standing by as part of its ongoing customer support.

And we take it one step farther, offering less than two-day delivery plus everything you need for a complete install, from torque converters and transcoolers to inline filters and automatic transmission cooler flushes.

Plus, we recently reduced prices on some of our most requested items! With strategic locations throughout the country, our supply chain offers the response time and depth to deliver wherever you are, when you need it.

Available HMMWV ReNEWed transmission models include:

- 3L80E (ETX40042HUM)
- 4L80E (ETX4L80E4HUM)
- 4L897 (ETX4L897HUM)

Contact [military.parts@navistar.com](mailto:military.parts@navistar.com) or in CONUS find a local International dealer at [www.internationaltrucks.com](http://www.internationaltrucks.com) to put the power of quality ReNEWed transmissions behind HMMWV reset or refurbish today.

along the length of the hose tube where it has been weakened by ECD.

5. If the ends are soft and feel mushy, chances are the hose is under attack by ECD. To avoid breakdowns, replacement is recommended.

[www.NavistarDefense.com](http://www.NavistarDefense.com) // [Military.Parts@Navistar.com](mailto:Military.Parts@Navistar.com) // Military Parts Hotline: 630.753.6100

Navistar Inc., 4201 Winfield Road, Warrenville, IL 60555 U.S.A.

Copyright 2009 - Navistar Inc.

If you have questions, please call 630.753.6100 or e-mail

[Military.Parts@Navistar.com](mailto:Military.Parts@Navistar.com).

To unsubscribe, [please click here](#).

**FORWARD TO A FRIEND**