



PRODUCT INFORMATION BULLETIN



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TO: ALL HYSTER DEALER PRINCIPALS, SALES MANAGERS, & SALES REPRESENTATIVES

FROM: GEORGE MARSHALL – DIRECTOR, BIG TRUCKS

SUBJ: Improvements to ELME Spreader Attachments

As a result of Hyster Company's continuous product improvement process, several changes have been made to the ELME series of 578, 817 and 818 spreaders used on Hyster Big Trucks to enhance durability and reliability.

There are two main areas of improvements, one being mechanical aspects of the spreader and secondly being electrical aspects. For detailed installation, instructions for these various improvements please refer to the *Hyster Parts - Service Grams* mentioned in the text.

Spreader Mechanical Improvements:

Twist lock Cylinder Rods & Retention Changes

H360-450H – Elme 578 (Single container handling with hydraulic vertical twist locks)

- Twist lock cylinder piston rod end modification – The rod now has symmetrical flats on the ends for adjustment of the twist lock rod operational length. The new design will bring improved reliability to this area of the attachment as well as providing improved alignment characteristics.
- A second area of improvement has been the introduction of an M8 bolt and washer for better twist lock cylinder retention.

These improvements were made to Elme product built in February 2004, arriving into the US in approximately May 2004. *Please refer to Hyster Parts -Service Gram # KE00006 for complete part number and installation instructions.*

Extension Cylinder Diameter Change

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreader)

- Cylinder rod diameter has been increase from 45 mm to 50 mm to improve durability and give better resistance to impact damage caused by abusive use. The change consists of a new rod, gland and seal assembly. A new by-pass relief valve has also been released to fit in the valve block, designed for relief of instantaneous spike pressures caused by severe impacts.

These changes are on-going improvements to our product range, and full details may be found by referring to Hyster Parts -Service Gram # KE00017.

Twist lock Indicator

H360-450H – Elme 578 (Single container handling with hydraulic vertical twist locks)

- For improved reliability, a gusset has been added to the weldment of the twist lock indicator flag. The new parts involved are interchangeable with the previous design components.

These changes are on-going improvements to our product range, and full details can be found by referring to Hyster Parts -Service Gram # KE00008.

Twist lock Indicator Shaft Change

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)

- The shaft for the twist lock indicator has had its external diameter reduced by .002” to provide an improved clearance factor between it and the plastic bushings that it rotates in.

These improvements were made to Elme product built in February 2004, arriving into the US in approximately May 2004. *For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00004.*

Sideshift Wear Pad Change

H360-450H / EC5-6 – Elme 570 Series

- A new green color wear pad is introduced for the above spreaders to improve wear resistance and durability. These green pads replace the previous yellow type, and are completely interchangeable.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00007.

Wear Pad Bracket Improvements

HR45-25,25S,27,31,36L,40S,40LS,45– Elme 817. H800-1050EC – Elme 818 (Laden Container Spreaders)

- To improve durability specific center beam support wear pad brackets have been improved. The new design allows superior support characteristics and lowers torsional stress in the operating environment.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00010.

Floating Head Wear Pad Shims

H360-450H / EC5-6 – Elme 570 Series. H360HD EC – Elme 550 Series

- Shims are now available to adjust the clearance on floating head end beams. Shims can be installed in top front and lower rear locations. Shims come in two dimensions, 1 mm thick and 2 mm thick.

These improvements were made to Elme product built in February 2004, arriving into the US in approximately May 2004. *For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00013R1.*

Repair Kits for Flex Track Chains

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 Series

- There are two sizes of Flex Track Chain used on Elme spreaders. The first is a narrow version that has a 45 mm inside chain dimension, and is used at the rear of the extension beams (feeds hoses & cables in and out during extension and retraction of the beams), and a 65 mm inside chain dimension used on Empty Container handlers for sideshift movement functions.
- Kits are now available to service both types of chain.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00014.

Twist lock Indicator Ring & Motor Mounting Hardware Changes

H360-450H / EC5-6 – Elme 570 Series, and all horizontal twist locks on Elme 572, 573 and 553 spreaders

- To improve twist lock proximity switch life, a brass indicator ring is utilized that directly replaces the previous plastic type. The previous design using the plastic ring could be compressed and contact the proximity switch.
- In addition, hardware changes for the twist lock motor mounting have been released which will reduce the potential of the motor assembly loosening.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00015.

Spreader Work Light Changes

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 series

- New light assemblies designed with one-piece positive locking connections and a protective rubber boot prevents water ingress and subsequent corrosion. In addition, the new lights provide increased light intensities through the use of halogen bulbs. This provides a broader light “spread” for better visibility of the twist locks at the 20-foot and 40-foot positions.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00018.

Spreader Electrical Improvements:

Proximity Switch Steel Brackets

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)

- A new steel bracket has been released to replace the nylon block assembly used to retain the proximity switches for the locked / unlocked function of the twist locks. The new steel version is directly interchangeable with the prior nylon type.
- Implementation of this change occurred with 817's building now, and for 818's from serial number 818-8605 #5466.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00003.

Solid State Printed Circuit Boards

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 series

- New printed circuit boards with solid-state components are now being used in the main control boxes of the 570, 817 & 818 series of spreaders, and in the rotator control box of the 817 series. These new boards use transistor technology, which prevent damage due to voltage spikes. These new boards will also ensure better up time with greater reliability in the spreader high impact areas.

For implementation details and information on these changes please refer to Hyster Parts -Service Gram #00005.

Proximity Sensor Updates

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 series

- New one-piece housing assemblies replace the previous two-piece designs. Potential separation due to high clamping forces has been eliminated with this new one-piece design. The new one-piece design is directly interchangeable with the previous version.

For full details of part numbers affected, etc, please refer to Hyster Parts -Service Gram # KE00009.

Electrical harness – Improved Routing Methods

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 series.

- In the high impact area of the spreader some minor routing changes have occurred that will result in significant reliability improvements.

For complete detailed instructions and parts involved please refer to Hyster Parts -Service Gram # KE00016.

Wire Harnesses to Replace Interface Boxes

HR45-25,25S,27,31,36L,40S,40LS,45 – Elme 817. H800-1050E – Elme 818 (Laden Container Spreaders)
H360-450H / EC5-6 – Elme 570 series

- Previous aluminum box designs (silver or blue colored) were used on Elme spreaders. As an enhancement to improve reliability and functionality in all application conditions, Hyster Company has now released new wiring harnesses that will replace the aluminum boxes. The new harness designs provide a simpler and more rugged layout.

For full details for each series of truck / spreader involved please refer to Hyster Parts -Service Gram #KE00019, KE00020 & KE00021.

For further detail or assistance, please contact your Hyster Field Sales Big Truck Manager or the Greenville Big Truck team. As always, we appreciate the support of our distribution network and the sales organization.

Sincere Regards,



George Marshall
Director – Big Trucks

The information contained in this bulletin is for information purposes only, Hyster Company reserves the right to change the design of our products without incurring an obligation to modify previously manufactured products.