



PRODUCT INFORMATION BULLETIN



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TO: ALL HYSTER DEALER PRINCIPALS, SALES MANAGERS, & SALES REPRESENTATIVES
FROM: PETER SIESSEL – VICE PRESIDENT, HYSTER MARKETING
SUBJ: H170-360HD Product Improvements

As indicated in Product Information Bulletin D/C # 3 released on February 10, 2004, several changes have been phased in on the H170-360HD as a result of Hyster Company's continuous product improvement process. The following provides these changes in detail.

Severe Duty Axle Ends

Implemented in February 2003 production for the H230-280HD series, this option is available only with the Wet Disc Brake option and recommended for applications that have particularly short shuttle operations, applications where the ground can rapidly change from loose dirt or mud to concrete or asphalt as well as clamp applications that involve pushing of the load.

Hydraulic Control Levers

New hydraulic control levers were implemented in production in February 2003. These new levers provide improved lowering control and durability. The vendor changed from Sakae to Gessman.

Fixed P&T (Pressure & Tank) Hydraulics

Implemented in February 2003 production for the H170-280HD and April 2003 on the H300-360HD, this feature provides simultaneous or individual control of auxiliary functions. This also allows for a truck to be set up for optional six function hydraulics.

Perkins Tier II Diesel Engine

Implemented in April 2003, this EPA Tier II compliant Perkins 1106-60TA diesel engine replaced the Perkins 1006 Tier I compliant engine. While retaining the same horsepower and torque of its predecessor, this engine delivers improved fuel efficiency. ***Refer to Product Information Bulletin D/C #5 released on March 14, 2003.***

NOTE: Perkins has advised Hyster Company that they intend to upgrade the current ECM software to Revision 9. No parts are required for these updates, only software downloaded into the Engine ECU. This upgrade will correct the following two conditions reported on the Tier 2 Perkins engines: Key Switch Cycling and Engine Temperature Gauge Issues. Perkins will implement a program to have their local service network install the upgrade software program at no cost to your dealership or the customer. ***Refer to letter dated January 30, 2004 from Hyster Field Product Improvement Manager, Ryan McLawhorn for detail.***

Steps and Running Boards

Implemented in April 2003, this new design uses a new stronger material that provides an improved grip pattern which allows for improved paint coverage. The two top steps are now welded on, making them an integral part of the frame.

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Fuel Cap

This positive venting and easily removable fuel cap was implemented in April 2003 production. A locking version is also available through the Hyster Aftermarket.

Battery Box

Implemented in April 2003, this improvement allows a technician to slide the batteries into place instead of lifting or dropping them into the battery box. A gas shock replaces the old torsion spring design providing improved serviceability and functionality.

Hydraulic Tank and Filter

Implemented in April 2003, this design allowed us to change from a dipstick to a sight glass mounted on the side of the tank for improved serviceability for daily checks. In addition, the hydraulic return line filter went from 20 micron to 10 micron.

3 Stage Mast

Implemented in April 2003 production on the H170-280HD, these new 3 stage masts provide improved visibility and are available with a pin type carriage, sideshift, fork positioner and sideshift fork positioner. ***Refer to Product Information Bulletin D/C #3 for description and features of the 3 stage masts for the H300-360HD.***

Hydraulic Controller

Implemented in September 2003 production this new hydraulic controller features a revised program to prevent intermittent hydraulic system shutdowns from occurring. There is also a field patch program available to update existing controllers for units shipped prior to this release. ***Refer to Service Gram LD00012 for detail.***

Steel Frame Doors

Designed as a direct replacement for the "all glass" cab doors, these cab doors are designed with a rugged steel structure and a horizontal sliding window on the upper half of the door. Implemented into production October 2003. ***Refer to Product Information Bulletin D/C #12 released on July 14, 2003.***

Autoshift Speed Sensors

Upon completion of field testing with positive durability results, these new autoshift speed sensors were implemented in production in October 2003. ***Refer to Service Gram FF00118 for detail.***

TE-10 3 Speed Transmission

Implemented in February 2004 production, this standard autoshift transmission is fully electronic featuring superior shift characteristics, a field adjustable traction speed limiter and transmission and engine error codes that are displayed on the hour meter. The laptop user interface utilizes a standard Hyster communication cable. ***Refer to Product Information Bulletin D/C #3 released on February 10, 2004.***

Cummins Tier II Engine

Implemented in February 2004 production, this Emission Compliant Cummins QSB-30 diesel engine governed horsepower retains the same 155 HP @ 2500 rpm, however the max torque will be 440 ft lbs @ 1500 rpm. The ***maximum horsepower*** is 160 HP @ 2300 rpm. This engine maintains a higher torque level (between 1100 and 1900 rpm) than the Perkins diesel engine, (in the 7 - 10% range) and is available with a puller or pusher fan option. ***Refer to Product Information Bulletin D/C #3 released on February 10, 2004.***

Exhaust Aspirated Air Cleaner

Implemented in February 2004 production, this new aspirated system contains two filter elements: a primary and secondary. The primary filter prevents any contaminants from entering into the engine air intake. The second filter is used as a safety element to trap contaminants from entering the engine air intake in the event the primary filter is compromised. The secondary filter also prevents contamination from entering during primary filter changes. This superior filtration system design provides our customers with reduced maintenance costs while improving engine and filter life. ***Refer to Product Information Bulletin D/C #3 released on February 10, 2004.***

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Air Brakes with Air Drier

Implemented in February 2004 production, Air Brakes with an air drier will now be the standard offering. This will eliminate concerns of freezing in the winter for customers in the North as well as corrosion issues in the humid months for customers located in the South.

12 Volt Converter

Due to the high demand for this offering a 12 volt converter is now standard for all trucks starting with February 2004 production. The cigarette lighter has been replaced with a plug only type outlet. ***Refer to Product Information Bulletin D/C #3 released on February 10, 2004.***

Tilt Lock Valves

Implemented in February 2004 production, a new tilt lock valve was released to eliminate squealing at low flows.

Hydraulic Breather

A new hydraulic tank breather and stand-pipe was implemented into February 2004 production to prevent dirt from falling into the hydraulic tank during filter changes. In addition, a filter indicator was added to show when the hydraulic filter requires changing.

We are excited about the release of these very important design improvements and the many opportunities and competitive advantages they will provide your dealership. Hyster Company's heritage of continuous product refinement has been our commitment for 75 years. With your help we can continue to create material handling equipment that exceeds customer expectations.

As always, we appreciate the support of our distribution network and the sales organization.

Sincere Regards,



Peter M. Siessel
Vice President of Marketing – Hyster Company

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.