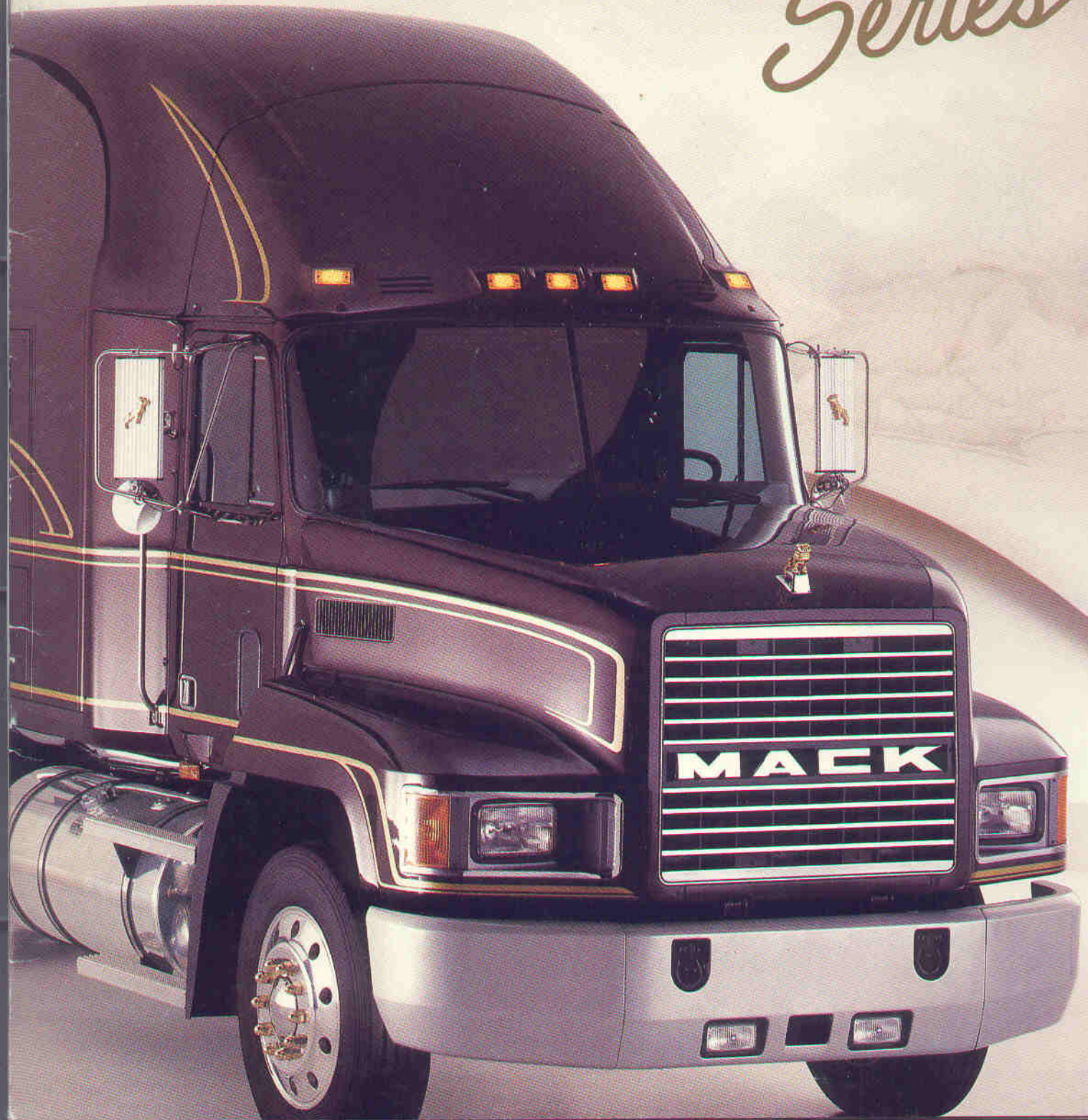




# CH600

*Series*



# CH600

## *A New Dimension*

**T**he newest expression of Mack Quality is the first new truck of the 1990s.

Mack created the CH600 series of conventionals to earn new superlatives in long distance, heavy-duty highway hauling. It represents an investment unprecedented in the industry — US \$60 million in development and testing, plus \$86 million in the most advanced assembly plant of its type in the world for its production. Another milestone from Mack, and heir to the legacies established by the AC "Bulldog®" in 1915 . . . the B Model in 1953 . . . and the R Model in 1966.

The CH600 is a totally new frame and chassis, optimized through computer-aided design for an excellent strength-to-weight ratio. The CH600 is a thoroughly new cab, incorporating exceptional room, comfort, and the highest standards of fit, finish and safety. The CH600 is a completely new package of unified aerodynamics, carried out through integration of the stylishly contoured hood, cab, sleeper, and fairings.

The Mack® CH600 is more than the sum of these elements. It's more than just another new truck. It's a ***new dimension.***

*CH600 (axle-back version) equipped with 60" Skylight sleeper. This totally new vehicle is the ultimate complement for Mack's Balanced Design power-train components, renowned for their performance and longevity.*





# CH600

*A New Dimension*

## IN HIGHWAY AND AERODYNAMIC ADVANTAGES

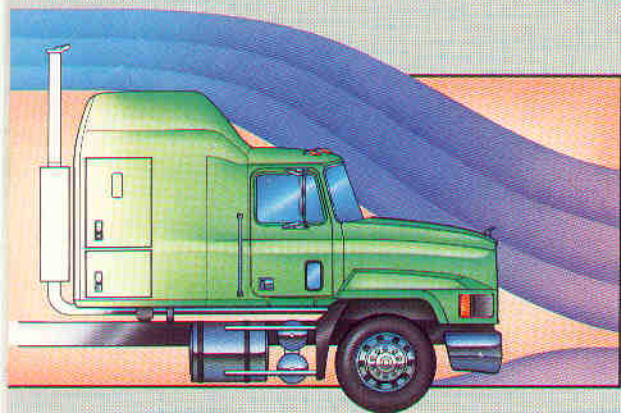
**A**n entirely new design means no compromise in smoothing the flow of air and road.

Mack created the CH600 to achieve artistry in motion from the ground up. Each exterior element complements the other in pursuit of superior aerodynamic efficiency — proven in extensive computer analysis and wind tunnel testing. The high-impact, molded Xenoy\* bumper acts as an air dam. The hood's design channels ample intake air to the engine compartment, while outside air follows the path of least resistance, past flush-mount, contoured lamps and a precise interface with the cab. The two-piece tinted

windshield is sloped and rounded for reduced drag and wide-angle visibility. Available full-coverage fairings meet the cab's clean corners and, when sleeper-equipped, side transition panels eliminate gaps for consistent air flow and appearance.

Underway, the CH600's new frame and chassis deliver extraordinary ride and control benefits. Frame-mounted steering gear provides better road feel, without the added weight of adapter plates. The front suspension utilizes low rate, taper leaf springs and no-lube elastomeric front spring bushings, while the hood is rubber-isolated for further shock and noise reduction. Mack mounts the CH600 cab with two pivoting knee brackets at the front, strategically located on the frame for minimum vibration. At the rear, standard cab air suspension uses a large diameter air spring and dual shock absorbers. And all CH600 sleepers ride on their own air-suspended sub-frame — a Mack exclusive.

On the road and through the air, the Mack CH600 is **a new dimension.**



*Bumper, hood, cab, sleeper, and fairings comprise a total package of unified design elements possible only with an all-new vehicle.*

*The windshield's 20° slope, the doors' concealed hinges and flush handles, and the cab's contemporary sculpture contribute to the CH600's aerodynamic efficiency and quiet ride.*

\*Xenoy is a registered trademark of GE Plastics.



*The CH600's unified aerodynamics package includes roof and side fairings with integral, flush-mount clearance and marker lamps.*



# CH600

*A New Dimension*

**IN STYLE AND ACCOMMODATIONS**

**M**ack's latest engineering accomplishment instills a new degree of pride.

Mack created the CH600 to meet the needs of owner-operator and fleet operator alike. A full range of configurations offers standard cabs or a choice of 4 integrated sleeper options: 42" single level, with or without unified aerodynamics; 42" raised ceiling Highrise version with unified aerodynamics; 60" single level arched roof, with or without front Skylight window; and the 60" double level, raised ceiling

Highrise version with unified aerodynamics. Both axle-forward and axle-back models are available, to suit specific application and weight distribution requirements.

The strikingly clean shape and shine of the CH600 reflect function as well as form, and the most advanced production techniques in the industry. Extensive use of stainless steel for bright finish options and accessories minimizes corrosion potential. The two-sided galvanized steel cab is built with the aid of robotics, and immersed in electrodeposition primer, followed by a pigment-enriched clear coat. During vehicle assembly, all body surfaces receive a base coat/clear coat paint finish that rivals the quality of the world's finest automobiles — with a choice of special mica metallics and custom striping schemes.

One close look confirms the magnitude of Mack's commitment. It's *a new dimension.*



*CH600 with 42" Highrise sleeper and unified aerodynamics. Swept-back fenders and the passenger door "spot window" aid visibility, while side-mounted undercab turn signals alert approaching motorists and pedestrians. Exhaust routing behind sleepers provides ample clearance and convenience.*





*CH600 with 60" Highrise sleeper. Large cab steps and grab handles are carefully located for easy, safe entry and exit, with door-actuated courtesy lamps. The driver's door incorporates a lower corner air vent.*

# CH600

## A New Dimension

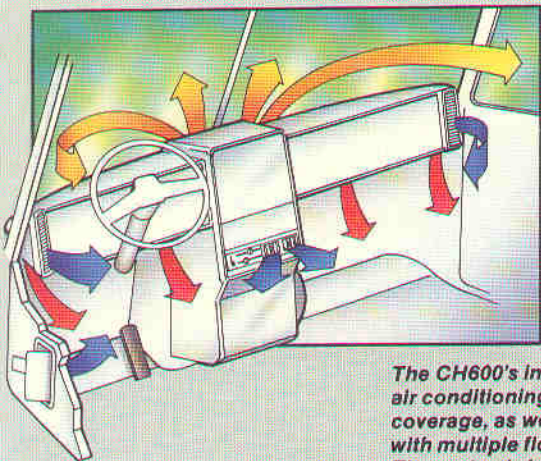
Inside, the new CH600 cab provides nearly one full foot of additional width and 4" more headroom compared to its predecessor, with virtually no increase in weight. Its low belt line and large glass areas ensure commanding visibility. Four levels of interior trim are offered, from Economy in silver gray or Deluxe in black or blue, to Preferred in silver gray . . . or the unrivalled luxury of the Elite Series in crimson or silver gray. All are finished in top quality, acoustically proven materials with extensive

insulation. And with air-suspended seating and Mack's 5-position tilting/telescoping steering column, the CH600 interior advances the latest standards for optimum driving position.

The attractive, one-piece instrument panel, composed of Noryl\* structural foam, places all controls and readings within an easy reach and glance. At the left, it houses the electronic speedometer and tachometer, plus 12 other plug-in gauges packaged in a complete, pop-out module on a printed circuit board for easy access. In the large center area to the driver's right are supplemental gauges and convenient rocker-type accessory switches, as well as the climate control system and tractor/trailer valves.



*CH600 Deluxe Series interior in blue. The tilting/telescoping steering column includes a multi-function switch for turn signals, 4-way flashers, high beams, and passing and courtesy flashers. Three-point lap/shoulder belts are available, as are power windows and door locks.*



*The CH600's integrated heating/ventilation/air conditioning system provides powerful coverage, as well as side window defrosting, with multiple floor and panel outlets. The system's housing cover at the front center of the cab removes quickly for service access. All sleeper-equipped models add their own separate HVAC systems.*

*CH600 instrument panel, displaying Elite Series trim with genuine wood fascia, leather-wrapped steering wheel and accents, storage trays, and CB radio power leads with mounting provisions.*

\*Noryl is a registered trademark of GE Plastics.





REARVIEW MIRROR

UP-TILT DOWN-TILT

UP-TILT DOWN-TILT

LOCK

ENGINE STOP



NOT FOR PARKING

FUEL

TEMP. °F

LIGHTS    WASH    FOG    HOOKUP    MIRROR

DIFF. LOCK/SET    5TH WHEEL SLIDE

WASH WINDSHIELD    ENG. BRAKE

LH WINDOW    RH WINDOW    DOOR LOCK

TRAILER SUPPLY    PARKING BRAKE

FILTER MIRROR AIR CLEANER RESTRICTION HOSE P/C

**AC-77-M-1 AND AC-77-S-1  
OPERATING INSTRUCTIONS**

**NORMAL HIGHWAY OPERATION**  
When vehicle is in motion, switch must be in "off" position for normal height control valve automatic operation.

**LOWERING**  
To lower vehicle place switch in "on" position.

80041227

CHANNEL 78

3 3 2 7 8

12 210

DC NORMAL

UP ON

DOWN

CHANNEL

PULL TO ENGAGE TRAILER AIR SUPPLY NOT FOR PARKING SUPPLY TO

PULL TO APPLY PARKING BRAKE PUSH TO RELEASE

**Mack**

HIGH OFF MAX NORM BI-LEVEL VENT HEAT DEF

MED A/C ECONOMY

**Mack**

COLD HOT

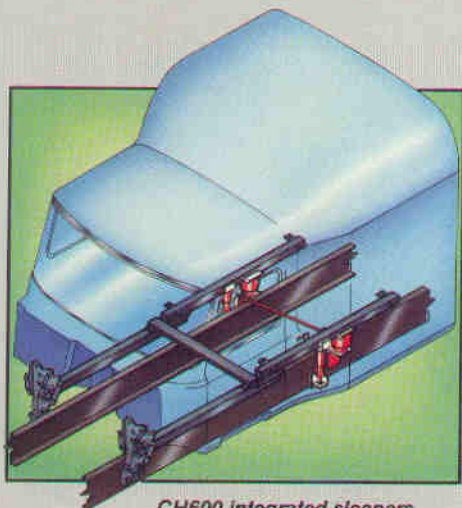
**A**t the far right, facing the passenger seat, the removable electrical equipment panel readily reveals 32 circuit breakers with battery, ignition, and ground terminals. Straight ahead, the large, curved windshield is kept clear by electric washer-arm wipers with a wide coverage pattern and available

intermittent feature. Above, the overhead console incorporates a variety of available premium audio systems and an enclosed storage compartment, along with full-width, 90° swing sun visors. And just behind, a big, walk-through passage opens up a whole new world of sleeper compartment spaciousness and comfort, with stand-up stature, roomy bunks, substantial storage, and a host of thoughtful appointments.

It's more than just a home on the road. It's a *new dimension*.



*CH600 Preferred Series interior in silver gray. Features such as a back wall storage compartment and overhead lighting console add convenience. Multi-speed transmissions are controlled with a new, ergonomically designed multi-function air shift lever, and a removable floor hatch surrounding its base provides easy transmission access.*



*CH600 integrated sleepers include a unique subframe and dual air suspension, and ride as one unit with the cab.*



*Standard cab air suspension on non-sleeper models combines a single air spring with dual shock absorbers.*

*Photos on fold-up:  
CH600 Interior showing 60" Highrise sleeper in crimson Elite Series trim.*

# CH600

*A New Dimension*

## IN PRODUCTIVITY AND FLEXIBILITY

**T**he only *really new* truck on the highway meets the needs of an ever-changing industry.

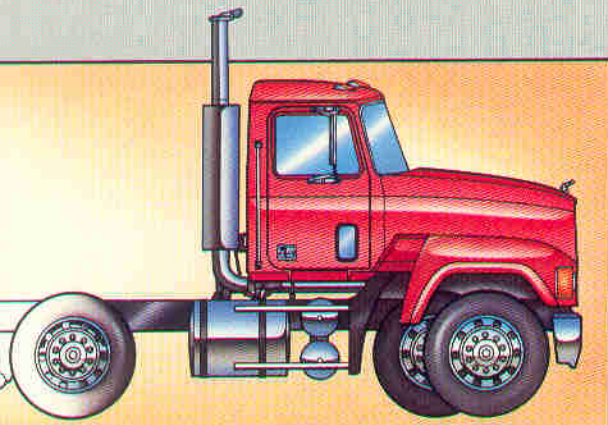
Mack created the CH600 for today's imperatives of higher payloads, more efficient weight distribution, and better maneuverability. The axle-back configuration is standard, and provides 45° wheel cuts with the shortest axle-to-back-of-cab dimension in its class: 63", with a 112" bumper-to-back-of-cab

dimension. In contrast, the optional axle-forward version measures 82" from axle to back of cab, but only the hoods and bumpers differ between the two — all other parts are interchangeable.

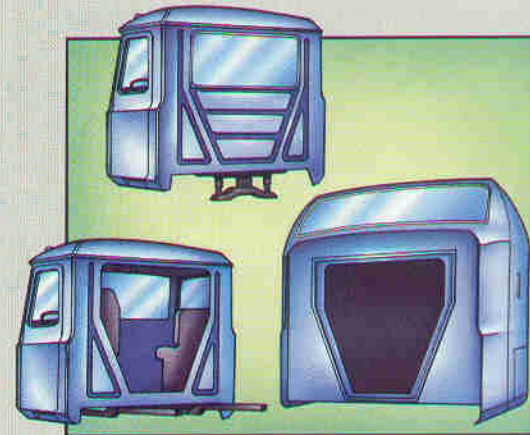
Effective use of materials keeps overall weight to a minimum, while improving durability. Single element, 1/4" x 10" x 3 3/8" straight frame rails of heat-treated, 110,000 psi yield strength alloy steel form the backbone of the CH600 chassis, with a 5/16" thickness also available. Mack bogies up to 44,000 lbs. in capacity are available, and drivelines are optimized on each vehicle order, for more payload, more earning power.

On the CH600 chassis, battery box and air reservoir locations are standardized, and the 25" diameter fuel tanks include integral sumps with slotted, easy-drain plugs and a 4" diameter fill cap with a pressure and thermal-relief feature. Improved PTO clearances provide easier access to accessory drives in day-to-day operation.

Mack's traditional attention to detail takes new shape, in a *new dimension*.



*Standard axle-back and optional axle-forward configurations share identical chassis components. Suspension parts, for example, simply move forward or back on the frame, as required.*



*Mack's unique integrated sleepers facilitate easy conversion, using available interchangeable cab back panels and suspension systems.*



*Cab steps and grab handles integrate with no unnecessary obtrusions. High-Impact inner fenders and wheel aprons with available Spray-Guard\* flaps protect appearance, and marker and clearance lamps are aerodynamically contoured.*

*CH600 standard cab. The molded front bumper includes provisions for fog lamps and, along with the SMC hood, saves weight, increases durability.*

\*Spray-Guard is a registered trademark of Monsanto Corporation.

# CH600

## *A New Dimension*

### IN PERFORMANCE AND SERVICEABILITY

**M**ack's philosophy of **Balanced Design** enters a new era.

Mack created the CH600 with adherence to a time-honored and time-is-here concept: change must produce meaningful performance benefits for the customer. The product therefore blends proven components and a new context, for the best of all possible worlds.

The heart of the CH600 is the Mack six-cylinder diesel engine, with chassis-mounted charge air cooling, free-breathing four valve-per-cylinder heads, and exclusive Maxidyne® Plus high-torque-rise power. Mack's lightweight, triple countershaft T-200 transmissions precisely match the engine output,

and deliver a smooth transition of power. And for tenacious traction and durability, Mack bogies have no peers. New innovations such as Mack's combination air and leaf spring rear suspension keep pushing the standards even higher.

The standard CH600 electrical system accommodates double trailer teams. All wiring harnesses feature SXL insulation and printed circuit identification, with individually prepared "road map" wiring diagrams included with each vehicle. All electrical connections outside the cab utilize environmentally sealed connectors, and all air brake electrical switches are located inside the cab, in a protected environment. A master ground circuit breaker is used, as well as 100% copper wire for the starting system. Even the wiper motor has overload protection, and spray-tight, shock mounted tail lamps are standard.

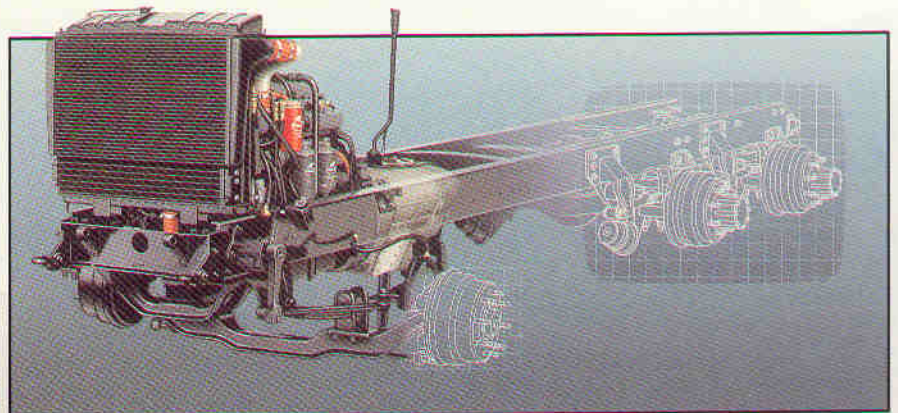
The thorough engineering in all CH600 chassis systems adds up to superior serviceability. Air-

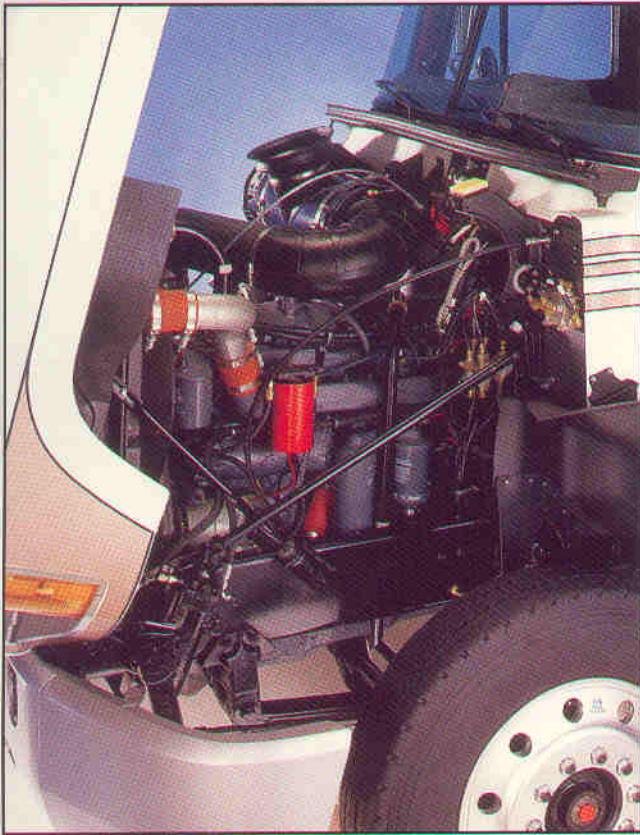
line routing and clamping throughout include numerical identification, and brake valves are dash-sheet mounted with a suspended pedal for protection and convenience. Air and electrical lines, as well as the clutch cable, pass through the dash-sheet via bulkhead fittings, minimizing air and noise leaks into the cab.

#### ***Mack Quality. . . Depend on it!***

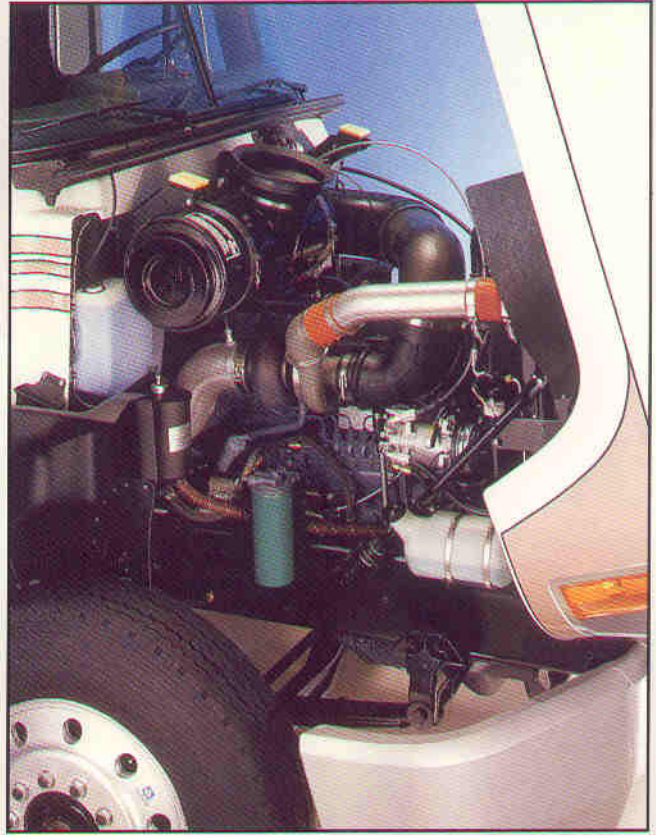
Inside and out, from bumper to tail lamp, the Mack CH600 is a synthesis of imagination and good sense. It's the newest expression of Mack Quality, and the first new truck of the 1990s. ***A New Dimension.***

*The CH600 chassis. A new front engine mount reduces vibration, and Huck®-Fit bolts, designed for Mack, are used throughout for consistent clamping and resistance to load and vibration.*





*Easy underhood serviceability on the left includes all engine filters, the rotary compressor for air conditioning, integral underhood air intake ducts, and the standard 26" diameter viscous drive fan.*



*Easy underhood serviceability on the right includes all fluid checks, including a ground-level coolant recovery bottle and six-quart washer fluid reservoir; underhood air cleaner with Donaldson\*\* low-restriction element; and the engine-mounted power steering pump, allowing tandem air compressors and future declutching units.*

\*Huck is a registered trademark of Huck Manufacturing Company.  
\*\*Donaldson is a registered trademark of Donaldson Company, Inc.

# **MACK QUALITY**

*Depend on it!*



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