

RAM INCOMPLETE VEHICLE DOCUMENT – 2005 MODEL YEAR PICKUPS

55351115AK
DAIMLERCHRYSLER
800 CHRYSLER DRIVE
AUBURN HILLS, MI 48326-2757

INCOMPLETE VEHICLE DOCUMENT

2005 MODEL YEAR PICKUPS AND CHASSIS CABS

THIS DOCUMENT APPLIES TO DODGE RAM PICKUPS

NOT EQUIPPED WITH OUTSIDE REARVIEW MIRRORS, AS WELL AS

ALL DODGE RAM 2500 HD 4X2, 2500 HD 4X4, 3500 4X2 AND 3500 4X4 CHASSIS CABS

The purpose of this document is to provide information and direction to subsequent manufacturers who must certify compliance of vehicles manufactured in two or more stages with the United States Federal Motor Vehicle Safety Standards and other regulations, or with the Canada Motor Vehicle Safety Regulations.

This document is provided in accordance with 49CFR Part 568 - Vehicles Manufactured in Two or More Stages (National Highway Traffic Safety Administration), and section 6, Regulations Respecting Safety for Motor Vehicles and Motor Vehicle Components under Motor Vehicle Safety Act (Transport Canada).

**AFFIX FEDERAL OR CANADA
INCOMPLETE VEHICLE
CERTIFICATION LABEL HERE**

Upon completion of this vehicle, you must place a completed Vehicle Placard on driver's side B-Pillar of the vehicle, as required by FMVSS 110. The sticker below shows the information you will need for the Vehicle Placard.

AFFIX TIRE LOADING LABEL HERE

(1)

RAM INCOMPLETE VEHICLE DOCUMENT – 2005 MODEL YEAR PICKUPS

The following safety standards information is valid only if this vehicle is completed as one of the vehicle types shown on the United States or Canadian label on the previous page.

Pickups not equipped with outside rearview mirrors.

Pickup trucks not equipped with outside rearview mirrors will conform to the following Federal Motor Vehicle Safety Standards or Canada Motor Vehicle Safety Regulations if no alterations are made to the vehicle other than the installation of conventional, door-mounted, outside rearview mirrors:

101^(t), 102^(t), 103^(t), 104^(t), 105^(t), 106^(t), 108^(t), 112^(t) (Canada), 113^(t), 114^(t), 115^(t), 116^(t), 118^(t), 119^(t), 124^(t), 125^(t), 135^(t), 201^(t), 202^(t), 203^(t) (Canada), 204^(t), 205^(t), 206^(t), 207^(t), 208^(t), 209^(t), 210^(t), 210.1^(t) (Canada), 210.2^(t) (Canada), 212^(t), 214^(t), 216^(t), 219^(t), 225^(t), 301^(t), 301.1^(t) (Canada), 301.2^(t) (Canada), 302^(t), 303^(t) (USA), 304^(t) (USA), 1106^(t) (Canada) and ICES-002^(t) (Canada).

Conformity to FMVSS/CMVSR 111 Rearview mirrors is not determined by the design of this incomplete vehicle and no representation as to conformity is made.

No representation as to conformity to any FMVSS or CMVSR beyond the information specifically contained within this document is made.

Dodge Ram 2500 HD 4x2, 2500 HD 4x4, 3500 4x2 and 3500 4x4 Chassis Cabs

**FMVSS 101
CMVSR 101^t** If this vehicle is equipped with a driver's seat, when completed it will conform with FMVSS 101 - Controls and Displays if no alterations are made to the location, identification or illumination of the controls covered by this standard, including the driver's seating position. Subsequent manufacturers must assure for any controls which are added and covered by this standard.

**FMVSS 102
CMVSR 102^t** This vehicle, when completed, will conform to FMVSS 102 - Transmission Shift Lever Sequence, Starter Interlock, and Transmission Braking Effect if no alterations are made to the transmission, shift control, accelerator control, or starter interlock system on automatic transmissions, provided that the shift lever positions are permanently displayed in view of the driver.

**FMVSS 103
CMVSR 103^t** This vehicle, when completed, will conform to FMVSS 103 - Windshield Defrosting and Defogging Systems if no alterations are made to the defroster system, including vehicle heater assembly and controls.

**FMVSS 104
CMVSR 104^t** This vehicle, when completed, will conform to FMVSS 104 - Windshield Wiping/Washing Systems if no alterations are made to windshield wiping or washing systems.

**FMVSS 105
CMVSR 105^t** This vehicle, when completed, will comply with FMVSS 105 - Hydraulic Brake Systems if:

- No alterations are made to the service and parking brake systems
- Rear axle must carry at least 37 percent of the vehicle weight when the front seat is ballasted as follows:

| GVWR | Front Seat Ballast |
|------------|--------------------|
| <10,000 lb | 400 lb |
| >10,000 lb | 500 lb |

- The GVWR and GAWR are not exceeded
- For the Ram Pickup and Chassis Cabs, the height above frame rail datum line of the combined centers of gravity of components added by the subsequent manufacturer does not exceed Y_{max}, where ...

For The Ram Chassis Cab
Y_{max} = B - 1.6(X)

NOTE: If the combined CG of the added components is behind the rear axle, then Y_{max} = B + 1.6X

X = horizontal distance in inches from the centerline of the rear axle to the combined center of gravity of all the added items.

B = factors chart.

**FMVSS 106
CMVSR 106^t** This vehicle, when completed, will conform to FMVSS 106 - Brake Hoses if no alterations are made to the hydraulic or vacuum brake hose assemblies.

**FMVSS 108
CMVSR 108^t** This vehicle will not conform to FMVSS 108 - Lamps, Reflective Devices and Associated Equipment in its present (incomplete) stage of manufacture. All incomplete vehicle manufacturer-installed components which are covered by this standard will comply, provided that subsequent manufacturers do not alter, obscure, or relocate these components. Subsequent manufacturers must add all necessary additional equipment required to meet this standard.

FMVSS 110 The vehicle as shipped does not conform to FMVSS 110 - Tire Selection and Rims for Motor Vehicles with GVWR of 10,000 lbs (4,536 kg) or less. It is the responsibility of the final stage manufacturer to properly affix the Tire placard label to the vehicle according to FMVSS 110, as well as assure tire, tire rims and tire pressure are appropriately selected for the vehicle.

**FMVSS 111
CMVSR 111^t** This vehicle, when completed, will conform to FMVSS 111 - Rearview Mirrors* if no alterations are made to the rearview mirror systems and the driver's indirect view to the rear is not obscured by the body or other equipment.
***NOTE:** On vehicles with outside rearview mirrors deleted, conformity to FMVSS 111 - Rearview Mirrors is not determined by the design of this incomplete vehicle and no representation as to conformity is made.

CMVSR 112^t Since this vehicle is not equipped with headlamp concealment devices, CMVSR 112 - Headlamp Concealment Devices is not applicable.

**FMVSS 113
CMVSR 113^t** This vehicle, when completed, will conform to FMVSS 113 - Hood Latch Systems if no alterations are made to the hood latches or attaching parts.

**FMVSS 114
CMVSR 114^t** This vehicle, when completed, will comply with FMVSS 114 - Theft Protection* if no alterations are made to the steering column lock, transmission shift linkage, ignition switch interlock or the audible key-left-in-lock warning systems.
***NOTE:** FMVSS 114 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

**FMVSS 115
CMVSR 115^t** This vehicle, when completed, will conform to FMVSS 115 - Vehicle Identification Number if:

- No alterations are made to the VIN plate, the VIN plate-mounting, or the VIN plate location
- No component installed by the subsequent manufacturers obscures the visibility of the VIN plate through the windshield Part 565

**FMVSS 116
CMVSR 116^t** This vehicle, when completed, will conform to FMVSS 116 - Motor Vehicle Brake Fluids if no alterations, substitutions, or introduction of foreign material are made to the brake fluid.

*If so Equipped. (t) See Section on Canadian Regulations. (&) sections as applicable

RAM INCOMPLETE VEHICLE DOCUMENT – 2005

MODEL YEAR PICKUPS

| B Factors for Determining Center of Gravity | | | | |
|--|----------------|---------|---------|---------|
| Weight of Components Added by Subsequent Manufacturers | All Ram Models | | | |
| | 2500 | | 3500 | |
| | 140" WB | 160" WB | 140" WB | 160" WB |
| B Factors | B | B | B | B |
| 250 lb (Minimum allowable added weight for 2500) | 140 | 140 | -- | -- |
| 500 lb (Minimum allowable added weight for 3500) | 140 | 140 | 140 | 140 |
| 750 lb | 140 | 140 | 140 | 140 |
| 1,000 lb | 140 | 140 | 140 | 140 |
| 1,250 lb | 140 | 140 | 140 | 140 |
| 1,500 lb | 140 | 140 | 140 | 140 |
| 1,750 lb | 140 | 140 | 140 | 140 |
| 2,000 lb | 140 | 140 | 140 | 140 |
| 2,250 lb | 140 | 140 | 140 | 140 |
| 2,500 lb | 140 | 140 | 140 | 140 |
| 2,750 lb | 140 | 140 | 140 | 140 |
| 3,000 lb | 134 | 134 | 134 | 134 |
| 3,250 lb | 128 | 128 | 128 | 128 |
| 3,500 lb | 122 | 122 | 122 | 122 |
| 3,750 lb | 116 | 116 | 116 | 116 |
| 4,000+ lb | 110 | 110 | 110 | 110 |

Note: Min X = The farthest point forward relative to the rear of cab (inches) that the center of gravity can be located. Positive Min X is rear of back of cab; negative Min X is forward.
 Note: See FMVSS/CMVSR 301 for further weight limitations. See FMVSS/CMVSR 212 for additional center-of-gravity limitations.
 Note: A = 1.6 for all applications.

FMVSS 118
CMVSR 118† If so equipped, this vehicle, when completed, will conform to FMVSS 118 - Power Operated Window, Partition and Roof Panel Systems if no alterations are made to the power window and related electrical systems.

- MVSS 118 is applicable only if completed vehicle has GVWR of 10,000 pounds or less
- Subsequent manufacturers must assure compliance with FMVSS 118 - Power Operated Window, Partition and Roof Panel Systems if powered roof panels, internal partitions or MPV power operated rear window systems are installed

FMVSS 119
CMVSR 119† This vehicle, when completed, will conform to FMVSS 119 - New Pneumatic Tires for Motor Vehicles other than Passenger Cars if:

- No tire alterations or substitutions are made
- The required tire data are either added to the vehicle's certification label or furnished on a separate tire information label
- The tires' GVWR and GAWR are not exceeded

FMVSS 120
CMVSR 120† This vehicle, when completed, will conform to FMVSS 120 - Tire Selection and Rims for Motor Vehicles other than Passenger Cars if:

- No alterations are made to the tires and rims
- The required tire and rim data are either added to the completed vehicle's certification label or furnished on a separate tire information label in accordance with FMVSS 110 section 4 (for vehicles with GVWR ≤ 10,000 lbs) and FMVSS 120 (for vehicles with GVWR > 10,000 lbs)
- The GVWR and GAWR are not exceeded

FMVSS 124
CMVSR 124† This vehicle, when completed, will conform to FMVSS 124 - Accelerator Control Systems if no alterations are made to the accelerator control system.

FMVSS 201
CMVSR 201† If this vehicle is equipped with a seat or seats, when completed, it will conform to FMVSS 201 - Occupant Protection in Interior Impact if no alterations are made to the seat locations, instrument panel, armrests, the interior trim including but not limited to, the upper interior trim including that over the doors, windshield and rear window, the roof side rails, the headliner, headliner and roof mounted components, and the roof pillars.
 NOTE: FMVSS 201 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

FMVSS 202
CMVSR 202† This vehicle, when completed, will conform to FMVSS 202 - Head Restraints if no alterations are made to the seat or head restraints.

NOTE: FMVSS 202 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

FMVSS 203
CMVSR 203† This vehicle, when completed, will conform to FMVSS 203 - Impact Protection for the driver from the Steering Control System if no alterations are made to the driver's seat location, steering wheel, steering column assembly or any attaching parts.

NOTE: FMVSS 203 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

FMVSS 204
CMVSR 204† This vehicle, when completed, will conform to FMVSS 204 - Steering Control Rearward Displacement if:

- No alterations are made to the steering control system, including, but not limited to, steering wheel, steering column assembly, front structure, bumper and attaching parts
- When tested in accordance with the requirements of the standard; (1), no component installed by the subsequent manufacturer impinges upon the steering control system with the sufficient energy to displace the steering control systems, and (2), no vehicle modification by the subsequent manufacturer results in any portion of the vehicle impinging upon the steering control system with sufficient energy to displace the steering control system

NOTE: FMVSS 204 is applicable only if completed vehicle has: (1), a GVWR of 10,000 pounds or less and (2), an unloaded vehicle weight of 5,500 pounds or less.

FMVSS 205
CMVSR 205† This vehicle, when completed, will conform to FMVSS 205 - Glazing Materials if no alterations are made to the windshield or windows, and if no nonconforming glazing materials are added.

FMVSS 206
CMVSR 206† This vehicle, when completed, will conform to FMVSS 206 - Door Locks and Door Retention Components if no alterations are made to the door locks, door hinges or their attachments.

FMVSS 207
CMVSR 207† If this vehicle is equipped with a driver's seat or front seats, when completed, it will conform to FMVSS 207 - Seating Systems if no alterations are made to the seats, seat tracks, vehicle underbody including, but not limited to frame, body, body mounts, or any attaching parts.

FMVSS 208
CMVSR 208† If this vehicle, when completed, will conform to FMVSS 208 - Occupant Crash Protection if no alterations are made to the seat belt and seat belt warning systems, seat locations and/or the windshield header. Subsequent manufacturers

†If so Equipped. (†) See Section on Canadian Regulations. (&) sections as applicable

(3)

RAM INCOMPLETE VEHICLE DOCUMENT – 2005

MODEL YEAR PICKUPS

must assure compliance for any added designated seating positions and for any modifications to the vehicle front end structure that may alter the crash characteristics, performance, or pulse, including, but not limited to, rails, bumper structure and attaching parts, crash sensors and airbag deployment electronics, occupant restraint system including the seat belt system, airbags, steering system, and knee blockers.

FMVSS 209
CMVSR 209[†] This vehicle, when completed, will conform to FMVSS 209 - Seat Belt Assemblies if no alterations are made to the seat belt assemblies. Subsequent manufacturers must assure compliance for added designated seating positions.

FMVSS 210
CMVSR 210[†] This vehicle, when completed, will conform to FMVSS 210 - Seat Belt Assembly Anchorages if no alterations are made to the seat belt assembly anchorages, body parts, frame, body mounts, or seat location. Subsequent manufacturers must assure compliance for added designated seating positions.

FMVSS 212
CMVSR 212[†] This vehicle, when completed, will conform to FMVSS 212 - Windshield Mounting if:

- No alterations are made to the body, body mounts, and frame rails that significantly affect crush from back of the cab forward in the vehicle
- No alterations are made to the windshield or the windshield mounting system
- When tested in accordance with the requirements of this standard: (1), no component installed by the subsequent manufacturer impinges upon the cab with sufficient energy to separate the windshield from its mounting, and (2), no vehicle modification by the subsequent manufacturer results in any portion of the vehicle impinging upon the cab with sufficient energy to separate the windshield from its mounting

***NOTE:** FMVSS 212 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

FMVSS 214
CMVSR 214[†] The doors of this vehicle, when the vehicle is completed, will conform to FMVSS 214 - Side Impact Protection if no alterations are made to the vehicle, including, but not limited to, the doors, door frames, door latches, door hinges or attaching parts, vehicle structure below the doors and the door aperture structure.

***NOTE:** FMVSS 214 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less for static test requirements, and a GVWR of 6,000 pounds or less for dynamic test (USA only) requirements.

FMVSS 216
CMVSR 216[†] This vehicle, when completed, will conform to FMVSS 216 - Roof Crush Resistance if no alterations are made to the roof panel or its support structure, including the roof rails, front header, roof pillars, the door window frames, the windshield and the windshield mounting system.

***NOTE:** FMVSS 216 is applicable only if completed vehicle has a GVWR of 6,000 pounds or less.

FMVSS 219
CMVSR 219[†] This vehicle, when completed, will conform to FMVSS 219 - Windshield Zone Intrusion if:

- No alterations are made to the hood mounting system, the body & vehicle structure that would alter vehicle crush from just behind the front seats forward in the vehicle
- When tested in accordance with the requirements of this standard: (1), no component installed by the subsequent manufacturer penetrates the "protected zone" of the windshield or the inner surface of that portion of the windshield below the "protected zone"

and (2), no vehicle modification by the subsequent manufacturer results in any portion of the vehicle penetrating the "protected zone" of the windshield or the inner surface of that portion of the windshield below the "protected zone"

***NOTE:** FMVSS 219 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

FMVSS 225
CMVSR 210.1[†]
and CMVSR 210.2[†] This vehicle, when completed, will conform to FMVSS 225 - Child Restraint Anchorage Systems (USA) or CMVSR 210.1 and 210.2 - Tether Anchorage for Child Restraints if no alterations are made to child seat top anchorages, body parts or seat locations. Subsequent manufacturers must assure compliance for added designated seating positions.

FMVSS 301
CMVSR 301[†] This vehicle, when completed, will conform to FMVSS 301 - Fuel System Integrity if:

- No alterations are made to the fuel system
- The subsequent manufacturer completes the frame mounted fuel filler pipe installation according to the instructions provided in the fuel filler kit
- The unloaded vehicle weight of the completed vehicle does not exceed the values listed in the next table.
- When tested in accordance with the requirements of this standard, no component installed by the subsequent manufacturer impinges upon the fuel system with sufficient energy to puncture or separate the fuel system, and no vehicle modification by the subsequent manufacturer results in any portion of the vehicle impinging upon the fuel system with sufficient energy to puncture or separate the fuel system

***NOTE:** FMVSS 301 is applicable only if completed vehicle has a GVWR of 10,000 pounds or less.

| Model | Body | WB | Engine | GVWR | UVW |
|-------------|----------|-------|----------------|-------|-------|
| 2500 HD 4x2 | Reg Cab | 140.5 | 5.7L Gas | 8,650 | 7,500 |
| 2500 HD 4x2 | Quad Cab | 140.5 | 5.7L Gas | 8,800 | 7,500 |
| 2500 HD 4x2 | Quad Cab | 160.5 | 5.7L Gas | 8,800 | 7,500 |
| 2500 HD 4x2 | Reg Cab | 140.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 2500 HD 4x2 | Quad Cab | 140.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 2500 HD 4x2 | Quad Cab | 160.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 2500 HD 4x4 | Reg Cab | 140.5 | 5.7L Gas | 8,650 | 7,500 |
| 2500 HD 4x4 | Quad Cab | 140.5 | 5.7L Gas | 8,800 | 7,500 |
| 2500 HD 4x4 | Quad Cab | 160.5 | 5.7L Gas | 8,800 | 7,500 |
| 2500 HD 4x4 | Reg Cab | 140.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 2500 HD 4x4 | Quad Cab | 140.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 2500 HD 4x4 | Quad Cab | 160.5 | 5.9L HO Diesel | 9,000 | 7,650 |
| 3500 4x2 | Quad Cab | 140.5 | 5.9L HO Diesel | 9,900 | 8,000 |
| 3500 4x2 | Quad Cab | 160.5 | 5.9L HO Diesel | 9,900 | 8,000 |
| 3500 4x4 | Quad Cab | 140.5 | 5.9L HO Diesel | 9,900 | 8,000 |
| 3500 4x4 | Quad Cab | 160.5 | 5.9L HO Diesel | 9,900 | 8,000 |

FMVSS 302
CMVSR 302[†] This vehicle, when completed it will conform to FMVSS 302 - Flammability of Interior Materials if no alterations are made to any interior component and no non-conforming interior materials are added.

[†]If so Equipped. (t) See Section on Canadian Regulations. (&) sections as applicable

(4)

RAM INCOMPLETE VEHICLE DOCUMENT – 2005 MODEL YEAR PICKUPS

Canadian Requirements

This incomplete vehicle as produced by DaimlerChrysler conforms in full with the Canadian Motor Vehicle Safety Regulations indicated by (†) in the listing throughout this document except as noted for CMVSR 108 and 111. In addition, this incomplete vehicle also conforms to the following Canadian Motor Vehicle Safety Regulations (CMVSR):

- 1100 - Vehicle Emissions
- 1006 - Interior and Exterior Noise
- 301.1 - Liquid Petroleum Gas Fuel System Integrity (if so equipped)

Further, this incomplete vehicle, as manufactured by DaimlerChrysler Corporation, fully complied with Interference-Causing Equipment regulation ICES-002, and when completed will continue to comply if no alterations are made to the distributor, ignition coils, ignition wires, spark plug wires, spark plugs or spark plug sleeves.

Other Federal Requirements

Exterior Noise – Ram 3500 4x2 and 3500 4x4 models with a GVWR of more than 10,000 lbs only

This incomplete vehicle, as manufactured by DaimlerChrysler Corporation fully complied with the Environmental Protection Agency's Exterior Noise Regulations - 40CFR Part 205. When completed, it will continue to comply if no alterations are made to the air intake system, cooling system, exhaust system or tires, and no obstructions are placed in close proximity to the tail pipe outlet.

Note: Intermediate Manufacturers

Each intermediate manufacturer making any changes in this vehicle which affect the validity of any statement in this document as provided to him must furnish an addendum to this document that contains his name, mailing address and an indication of all changes that should be made in this document to reflect changes that he made in this vehicle. The incomplete vehicle manufacturer must then furnish this document, along with any addenda, as required, and in the manner specified in Paragraph 568.5 of Part 568 of Title 49CFR Part 568.

Note: Final Manufacturers

The final-stage manufacturer must complete this vehicle in such a manner that it conforms to all standards in effect on the date of manufacture by DaimlerChrysler, the date of final completion, or a date between those two dates. The final-stage manufacturer must certify the completed vehicle as required by sections 567.5 and 568.6, 49CFR Part 567 and 568.

Sample Calculation – Ram Pickup FMVSS/CMVSR[†] 105 Compliance, Chassis Cab

Example:

Subsequent manufacturer wishes to add a 260-lb winch to the front bumper and a 1,110-lb body to a 140.5" wheelbase 2500 HD 4x2. The midpoint of the winch will be 174" from the centerline of the rear axle directly above the frame rails. The body will be placed directly behind the cab and its floor will be directly above the frame rails. Can the modification be done without negating FMVSS/CMVSR[†] 105 compliance?

Solution:

First, determine the location of the center of gravity of the individual components to be added. For the purposes of this example, the center of gravity (CG) of the winch is 5 inches above its base and at its exact center in the fore and aft direction. The CG of the body is 7.5 inches above its floor and 62 inches from its front in the fore and aft direction. (See illustration below.)

Second, calculate the combined CG of the winch and body in the fore and aft direction. To find the combined CG, the weight of the winch is multiplied by the distance of its CG from the centerline of the rear axle. This result is then divided by the total weight of the components.

$$X = \frac{6.3" \times 1,110 \text{ lb} - 181.4" \times 260 \text{ lb}}{(1,110 \text{ lb} + 260 \text{ lb})} = -29.3"$$

A negative value for "X" indicates that the CG is in front of the rear axle centerline.

Note: If all added component CGs are behind the rear axle, then the respective weight times CG distance results are added together before being divided by total weight.

Third, calculate Ymax from the equation: $Y_{\max} = B + 1.6(X)$.

From the "B" factor table, "B" for a 1,370-lb load for a 140.5-inch wheelbase is about 140.

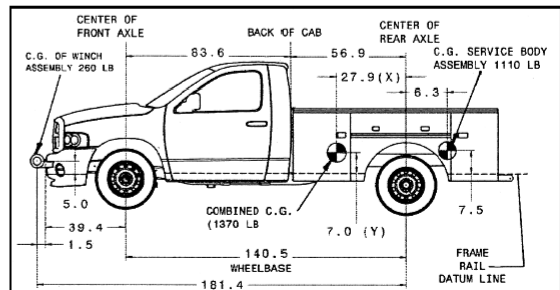
Therefore, $Y_{\max} = 140 - 1.6(29.3) = 93.2$ inches.

Fourth, calculate the combined vertical CG of the added components (Y) by multiplying the CG height of each component by the weight of each component, adding the results and dividing by the total weight of components:

$$Y = \frac{5" \times 260 \text{ lb} + 7.5" \times 1,110 \text{ lb}}{(260 \text{ lb} + 1,110 \text{ lb})} = 7.0"$$

Note: If an added component's CG was below the frame rail datum line, then its weight-times-CG-distance result would be subtracted from the weight-times-distance-result of components with CGs above the frame rail datum line.

Fifth, compare the value of Y with Ymax. For the additional components to be installed without affecting FMVSS/CMVSR[†] 105 compliance, the value of Y must not exceed Ymax. In the above example, Y(7.0") is less than Ymax (93.2"). Therefore, the winch and body combination can be added.



*If so Equipped. (†) See Section on Canadian Regulations. (&) sections as applicable

RAM INCOMPLETE VEHICLE DOCUMENT – 2005

MODEL YEAR PICKUPS

Federal, Canada and California

Exhaust emissions certification parameters - Incomplete Vehicles

The gasoline-powered trucks listed below will conform to Federal, Canadian or state of California exhaust emission requirements applicable to 2005 model year new light-duty trucks and medium-duty vehicles, if the following conditions are not exceeded in the completion of the vehicle:

| Incomplete Vehicles | Engine Displacement | Sales Area | GVWR | Max Completed Truck Curb Weight (lb) | Max Completed Truck Frontal Area (sq ft) |
|---------------------|---------------------|------------------------------|------|--------------------------------------|--|
| 2500 HD 4x2 | 5.7L | Federal, Canada & California | * | * | * |
| 2500 HD 4x4 | 5.7L | Federal, Canada & California | * | * | * |

*See underhood emission control information label.

The following vehicles are certified under heavy-duty engine certification regulations and NO emission-related curb weight and frontal area limitations apply:

| All Models | Engine Displacement | Sales Area |
|-------------|---------------------|------------------------------|
| 2500 HD 4x2 | 5.9L HO Diesel | Federal, Canada & California |
| 2500 HD 4x4 | 5.9L HO Diesel | Federal, Canada & California |
| 3500 4x2 | 5.9L HO Diesel | Federal, Canada & California |
| 3500 4x4 | 5.9L HO Diesel | Federal, Canada & California |

*If so Equipped. (†) See Section on Canadian Regulations. (&) sections as applicable

(6)