

Contents

SNOWPLOW PREP PACKAGE (VYU)1

Special Notice2

Ballast Compensating Weight.....2

CMVSS and FMVSS.....9

‘K’ Series Snow Plow Best Practices.....10

‘K’ Series Snow Plow Applications – Max. Plow/Hardware Weights.....11

 K Models - Four Wheel Drive Pickups.....11

SNOWPLOW PREP PACKAGE (VYU)

The chart on the page SP-4 shows GMTG and General Motors approved models available with snowplow prep package-option VYU.

GM recommends that when a snowplow is mounted on a vehicle, only one passenger should accompany the driver. More than one passenger may exceed Front Gross Axle Weight Ratings.

Prior to installing a front mounted snowplow, the following process should be followed and necessary information obtained.

- Establish vehicle curb weight □ Establish chassis manufacturer's front and rear axle weight ratings
- Chevrolet and GMC truck dealers can provide availability, specifications, Gross Vehicle Weight Ratings (GVWR), and Front and Rear Gross Axle Weight Ratings (FGAWR/RGAWR). For vehicles already built, this information can be found on the certification label installed on driver's door/door frame or provided on the cover of the Incomplete Vehicle Document.

The following information should be obtained and provided by the manufacturers of snowplows and salt spreaders:

- Specifications, weights and center of gravity data
- Vehicle installation guidelines and instructions
- Calculation of weight distribution for the front and rear axles

The loaded vehicle with driver, passenger, aftermarket accessories, snowplows, spreader, and cargo must not exceed the Gross Vehicle Weight Rating (GVWR), and Front and Rear Gross Axle Weight Ratings. In addition, the completed curb weight vehicle, with all installed aftermarket accessories, snowplow, and spreader, and with 400 lbs. for vehicles less than 10,000 lbs. and 500 lbs. for vehicles greater than 10,000 lbs. distributed in the driver-passenger area of the vehicle, must have a center of gravity location that is located within the trapezoid formed by the coordinates A, B, C, D, H1 & H2, plus it must be to the rear of vertical line E and forward of vertical line F as defined in the ALLOWABLE CENTER OF GRAVITY CHARTS. If the center of gravity location does not fall within the specified trapezoid, ballast weight may be required to shift the center of gravity location until it falls within the specified trapezoid.

The snowplow manufacturer and the installer of the aftermarket equipment should determine the amount of rear ballast required to ensure that the vehicle, with the attached snowplow and aftermarket equipment, complies with the Allowable Center of Gravity Trapezoid and the resulting front and rear weight distribution ratio as defined in the Allowable Center of Gravity Charts published in this manual.

Special Notice

Ballast Compensating Weight

The use of rear ballast weight may be required to prevent exceeding the Gross Axle Weight Rating of the front axle. The use of rear ballast weight may be required to ensure that the center of gravity location of the completed vehicle, with the attached snowplow and other installed equipment, complies with the Allowable Center of Gravity Trapezoid and the resulting front and rear weight distribution ratio, even though the actual front weight may be less than the Gross Axle Weight Rating of the front axle. In either case, the rear ballast weight should be securely attached in the cargo box or behind the rear axle of the vehicle in a manner which prevents it from moving during driving and stopping.



TORSION BAR ADJUSTMENT

To help avoid personal injury, refer to Z-height setting procedure before adjusting torsion bars. If torsion bars are adjusted for aftermarket equipment, be sure to return them to specification when the equipment is removed. Otherwise, a front shock absorber may dislodge and damage a front brake line. This could result in an accident when minimum stopping distances are required.

Special Applications - Full Size (K) Pick-Ups (4x4)

'K' – Series Snow Plow Prep Package

| | | PICKUPS - Single Rear Wheel (SRW) | | | | | | |
|--|-----------|-----------------------------------|---------|------------|------------|------------|------------|------------|
| Model | | K15703 | K15903 | K25753 | K25743 | K25903 | K25953 | K25943 |
| Cab | | Regular | Regular | Double | Crew | Regular | Double | Crew |
| Wheelbase inches | | 119 | 133 | 143.5 | 153 | 133 | 157.5 | 167 |
| Pickup Box length feet / Cab to Axle length inches | | 6.5 | 8 | 6.5 | 6.5 | 8 | 8 | 8 |
| GVWR lb. | | 6800 | 7000 | 9500/10k* | 9500/10k* | 9500/9900* | 9500/10k* | 9900/10k* |
| GAWR lb. -Frt. | | 3950 | 3950 | 4400/5200* | 4800/5200* | 4400/5200* | 4800/5600* | 4800/5200* |
| Engine Availability with VYU: | opt. code | | | | | | | |
| Vortec 4.3L V8 SFI Flex Fuel | LV3 | S | S | N/A | N/A | N/A | N/A | N/A |
| Vortec 5.3L V8 SFI Flex Fuel | L83 | A | A | N/A | N/A | N/A | N/A | N/A |
| Vortec 6.0L V8 SFI Flex Fuel | LC8 | N/A | N/A | S | S | N/A | S | S |
| Vortec 6.0L V8 Variable Timing SFI Flex Fuel | L96 | N/A | N/A | S | S | S | S | S |
| Vortec 6.2L V8 SFI | L86 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Duramax 6.6L V8 Diesel | L5P | N/A | N/A | A | A | A | A | A |
| Base (B) Equipment Includes: | | | | | | | | |
| Battery 600 CCA (Gasoline Engines) | | S | S | S | S | S | S | S |
| Dual Batteries 730 CCA (6.6L Diesel Engine) | TUV | N/A | N/A | A | A | A | A | A |

Special Applications - Full Size (K) Pick-Ups (4x4)

| | | | | | | | | |
|--|------------|-------|-------|-------|-------|-------|-------|-------|
| Provisions for Rear Back-Up Lighting | | | | | | | | |
| Front Tow Hooks | V76 | S | S | S | S | S | S | S |
| Floor Covering HD Rubber - Std. on Work Truck / Base without YE9 | BG9 | B & A | B & A | B & A | B & A | B & A | B & A | B & A |
| Snow Plow Prep Pkg. Includes: | VYU | | | | | | | |
| Increased Front Spring rate 4WD | F60 | S | S | S | S | S | S | S |
| Air cleaner, high-capacity | K47 | S | S | S | S | S | S | S |
| External Eng. Oil Cooler | KNP | A | A | R | R | R | R | R |
| Alternator 170 Amp(150 w/o VYU)- Gas Engines | KW7 | S | S | N/A | N/A | N/A | N/A | N/A |
| Alternator 220 Amp(150 w/o VYU)- Gas Engines | KW5 | N/A | N/A | S | S | S | S | S |
| Alternators - Dual 150 Amp - Diesel Engines | KH5 | N/A | N/A | S | S | S | S | S |
| Provision for Roof Mtd. Emergency Light | TRW | S | S | S | S | S | S | S |
| Transmission Cooler (air to oil) Auto only | KNP | S | S | S | S | S | S | S |
| ***42mm Hole FOD with Rubber Grommet | | | | | | | | |
| Fwd. Lamp Harness with In-Line Connector | | | | | | | | |
| Mntg. Location for Snow Plow Controls | | | | | | | | |

Special Applications - Full Size (K) Pick-Ups (4x4)

| | | | | | | | | |
|--|-----|-------|-------|----------------------------|-------|-------|-------|-------|
| Suggested Optional Equipment: | | | | | | | | |
| Battery 730 CCA - Gasoline Engines | 6C5 | A | A | A | A | A | A | A |
| 3.73 Rear Axle Ratio | GT4 | A | A | "B" Gas & "A" Diesel | B | B | B | B |
| 4.10 Rear Axle Ratio | GT5 | A | A | A | A | A | A | A |
| Skid Plate, "Off Road" - Included with Z71 | NZZ | A & Y | A & Y | A & Y | A & Y | A & Y | A & Y | A & Y |
| Engine Block Heater (Req'd for Canada - opt. Z49) | K05 | A | A | A | A | A | A | A |
| Locking Differential - Included with (NHT) Max Trailering Pack or (PCY) Towing Package or axle ratio GT5 | G80 | | | | | | | |
| Rear Window Defogger (N/A with A48 on Ext. & Crew Cabs) (Reqs. C67 AC on Reg. Cabs) | C49 | A | A | A | A | A | A | A |
| Sliding Rear Window not avail. with C49 | A48 | N/A | N/A | A | A | N/A | A | A |
| Windshield Washer Fluid System, Heated (Reqs. Opt. YE9 or SLT) | XA7 | A | A | A | A | A | A | A |

* = DIESEL / k = x 1000 / s = SRW / d = DRW

Special Applications - Full Size (K) Pick-Ups (4x4)

| | | PICKUPS --- Single(s) & Dual(d) Rear Wheels | | | | Chassis---Cabs | | |
|--|-----|--|----------------|----------------|-------------------|----------------|------------|------------|
| Model | | K35903 | K35743 | K35953 | K35943 | K36003 | K36043 | K36403 |
| Cab | | Regular | Crew | Double | Crew | Regular | Crew | Regular |
| Wheelbase inches | | 133 | 167 | 157.5 | 167 | 137 | 161.5 | 161.5 |
| Pickup Box length feet / Cab to Axle length inches | | 8 | 6.5 | 8 | 8 | 60" CA | 60" CA | 80" CA |
| GVWR lb. | | 10700/11400* s | 10800/11500* s | 11000/11600 *s | 11000/11600* s | 13,200 | 13,200 | 13,200 |
| GAWR lb. -Frt. | | 4400/5200* | 4800/5600* | 4800/5600* | 4800/5600* | 4400/5200* | 4800/5600* | 5200/5600* |
| Engine Availability with VYU: | | opt. code | | | | | | |
| Vortec 4.3L V8 SFI Flex Fuel | LV3 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Vortec 5.3L V8 SFI Flex Fuel | L83 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Vortec 6.0L V8 SFI Flex Fuel | LC8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Vortec 6.0L V8 Variable Timing SFI Flex Fuel | L96 | S | S | S | S | S | S | S |
| Vortec 6.2L V8 SFI | L86 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Duramax 6.6L V8 Diesel | L5P | A | A | A | A | A | A | A |
| Base (B) Equipment Includes: | | | | | | | | |
| Battery 600 CCA (Gasoline Engines) | | S | S | S | S | B | B | B |

Special Applications - Full Size (K) Pick-Ups (4x4)

| | | | | | | | | |
|---|-----|---|---|---|---|---|---|---|
| Dual Batteries 730 CCA (6.6L Diesel Engine) | TUV | A | A | A | A | A | A | A |
| Provisions for Rear Back-Up Lighting | | | | | | | | |

| | | | | | | | | |
|--|------------|-------|-------|-------|-------|-------|-------|-------|
| Front Tow Hooks | V76 | S | S | S | S | S | S | S |
| Floor Covering HD Rubber - Std. on Work Truck / Base without YE9 | BG9 | B & A | B & A | B & A | B & A | B & A | B & A | B & A |
| Snow Plow Prep Pkg. Includes: | VYU | | | | | | | |
| Increased Front Spring rate 4WD | F60 | S | S | S | S | S | S | S |
| Air cleaner, high-capacity | K47 | S | S | S | S | S | S | S |
| External Eng. Oil Cooler | KNP | S | S | S | S | S | S | S |
| Alternator 170 Amp(150 w/o VYU)- Gas Engines | KW7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Alternator 220 Amp(150 w/o VYU)- Gas Engines | KW5 | S | S | S | S | S | S | S |
| Alternators - Dual 150 Amp - Diesel Engines | KH5 | S | S | S | S | S | S | S |
| Provision for Roof Mtd. Emergency Light | TRW | S | S | S | S | S | S | S |
| Transmission Cooler (air to oil) Auto only | KNP | S | S | S | S | S | S | S |
| ***42mm Hole FOD with Rubber Grommet | | | | | | | | |
| Fwd Lamp Harness with In-Line Connector | | | | | | | | |
| Mntg. Location for Snow Plow Controls | | | | | | | | |

Special Applications - Full Size (K) Pick-Ups (4x4)

| Suggested Optional Equipment: | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|-------|
| Battery 730 CCA - Gasoline Engines | 6C5 | A | A | A | A | A | A | A |
| 3.73 Rear Axle Ratio | GT4 | B | B | B | B | B | B | B |
| 4.10 Rear Axle Ratio | GT5 | A | A | A | A | A | A | A |
| Skid Plate, "Off Road" - Included with Z71 | NZZ | A & Y | A & Y | A & Y | A & Y | A & Y | A & Y | A & Y |
| Engine Block Heater (Req'd for Canada - opt. Z49) | K05 | A | A | A | A | A | A | A |
| Locking Differential - Included with (NHT) Max Trailering Pack or (PCY) Towing Package or axle ratio GT5 | G80 | | | | | | | |
| Rear Window Defogger (N/A with A48 on Ext. & Crew Cabs) (Reqs. C67 AC on Reg. Cabs) | C49 | A | A | A | A | A | A | A |
| Sliding Rear Window not avail. with C49 | A48 | N/A | A | A | A | A | A | A |
| Windshield Washer Fluid System, Heated (Reqs. Opt. YE9 or SLT) | XA7 | A | A | A | A | A | A | A |

* = DIESEL / k = x 1000 / s = SRW / d = DRW

CMVSS and FMVSS

Compliance of Canadian and Federal Motor Vehicle Safety Standards will be affected by Upfitters adding Snow Control Equipment:

MVSS 105 – Hydraulic brake (Vehicles greater than 3500 kg (7716 lb) GVWR)

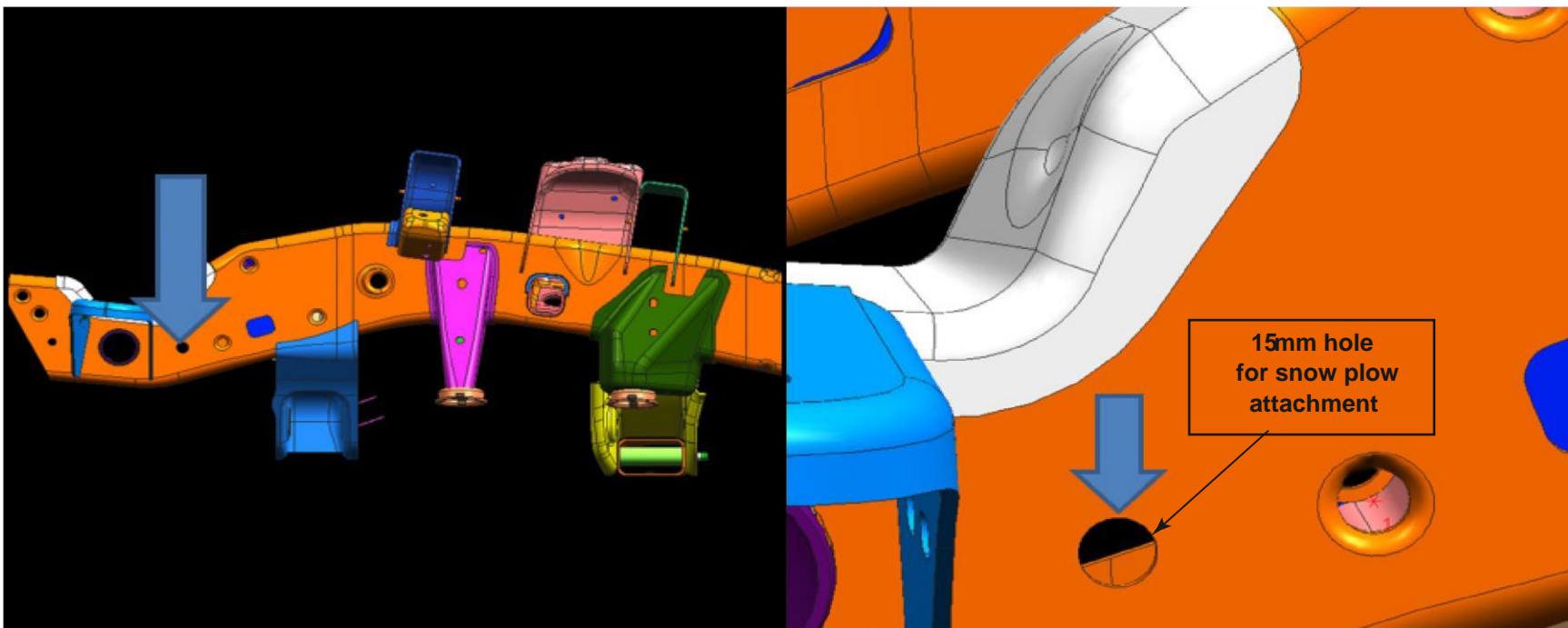
MVSS 126 – Electronic Stability Control Systems

MVSS 135 – Light Vehicle Brakes, applies to vehicles 3500 kg (7716 lb) GVWR or less

Note: Generic copies of the General Motor Incomplete Vehicle Documents can be obtained from the website (www.gmupfitter.com) and can be used as a reference guide in the compliance to these standards.

'K' Series Snow Plow Best Practices

1. OEM Steering gear, Suspension and Powertrain Component mounting holes & associated OEM fasteners should not be used to attach Snow Plow Mounting equipment.
2. A suggested allowance of 10 mm minimum clearance to stationary OEM components example: Bumper Asm, Steering Box, Cooling System components is highly recommended. Note these components have varying positional tolerances.
3. A suggested allowance of 20 mm minimum clearance to OEM components subject to movement example: Steering Gear, Suspension (A-Arm, Axle, Strut, & Stab Bar asms.) at full jounce is highly recommended. Note these components have varying positional tolerances.
4. Snow Plow & Associated Mounting Equipment should not exceed front axle available payload rating of vehicle as optioned. Plow Blade height, width & mass should be in accordance with Snow Plow Manufacturers recommended requirements for specific vehicle.



'K' Series Snow Plow Applications – Max. Plow/Hardware Weights K Models - Four Wheel Drive Pickups

| Body Style | Engine RPO | Engine Type | 15 | 25 | 35 SRW | 35 DRW |
|------------|------------|-------------|----------------|----------|----------|----------|
| | | | FGAWR with VYU | | | |
| 703 | LV3 | Gas | 3950 | - | - | - |
| | L83 | Gas | 3950 | - | - | - |
| 903 | LV3 | Gas | 3950 | - | - | - |
| | L83 | Gas | 3950 | - | - | - |
| HD 903 | L96 | Gas | - | 5200 | 5600 | 5600 |
| | L5P | Diesel | - | 6000 | 6000 | 6000 |
| HD 753 | L96 | Gas | - | 5200 | - | - |
| | L5P | Diesel | - | 6000 | - | - |
| HD 953 | L96 | Gas | - | 5600 | 5600 | 5600 |
| | L5P | Diesel | - | 6000 | 6000 | 6000 |
| HD 743 | L96 | Gas | - | 5200 | 5600 | - |
| | L5P | Diesel | - | 6000 | 6000 | - |
| HD 943 | L96 | Gas | - | 5600 | 5600 | 5600 |
| | L5P | Diesel | - | 6000 | 6000 | 6000 |
| Body Style | Engine RPO | Engine Type | 15 | 25 | 35 SRW | 35 DRW |
| 703 | LV3 | Gas | 40/500 | - | - | - |
| | L83 | Gas | 40/500 | - | - | - |
| 903 | LV3 | Gas | 40/500 | - | - | - |
| | L83 | Gas | 40/500 | - | - | - |
| HD 903 | L96 | Gas | - | 100/900 | 100/1000 | 100/1000 |
| | L5P | Diesel | - | 100/975 | 100/975 | 100/925 |
| HD 753 | L96 | Gas | - | 100/775 | - | - |
| | L5P | Diesel | - | 100/825 | - | - |
| HD 953 | L96 | Gas | - | 100/1000 | 100/1000 | 100/1000 |
| | L5P | Diesel | - | 100/775 | 100/800 | 100/775 |
| HD 743 | L96 | Gas | - | 100/725 | 100/1000 | - |
| | L5P | Diesel | - | 100/775 | 100/800 | - |
| HD 943 | L96 | Gas | - | 100/950 | 100/950 | 100/925 |
| | L5P | Diesel | - | 100/700 | 100/725 | 100/700 |

Notes:

100/xxx = 100lbs maximum of permanently attached snow plow mounting hardware and/xxx lbs. maximum of removable snow plow blade and blade hardware.

Maximum plow weights based on a vehicle with average manufacturer option content and 150lbs each for driver and one additional front seat occupant.

Additional equipment and occupants can reduce maximum plow weight.

Rear compensating weight may be required to maintain front axle weight below 65% of total vehicle weight when equipped with snow plow, consult your snow plow manufacturer for specific compensating weight recommendation.

VYU is offered on incomplete vehicles, please consult Upfitter for recommended maximum plow weights.