

INTRODUCTION

This manual contains complete service, maintenance, and repair information on all truck models listed on title page. Important information on the arrangement and use of this manual will be found on page v. Operation of the vehicles from the standpoint of the driver is contained in a separate Owner's and Driver's manual which is furnished with every new GMC Truck.

Every effort has been made to include timely and adequate information on the various units and systems used on GMC Trucks. The maintenance and repair procedures in the various manual sections are the result of extensive service experience. This information should serve not only as a reference for the experienced mechanical force, but also as a comprehensive text for training purposes.

In some cases, considerable space is devoted to describing the operation of a unit or system. The use of this space is justified by the presumption that in order for a mechanic to maintain a unit or system in a serviceable condition, or to restore it to a serviceable condition after it has failed, he must first understand how the unit or system should function.

All information contained in this manual is based on the latest product information available at the time of publication approved. GMC Truck and Coach Division reserves the right to make changes in design or add improvements at any time without incurring any obligation to install same on vehicles previously purchased.

TRUCK MODELS

A complete list of truck models covered by this manual appears on page vii. Following is an explanation of Truck Model Designations:

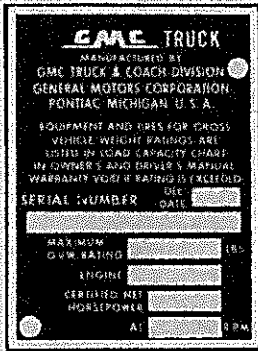
Letters prefixing the Truck Model Number are:

A—Air-Hydraulic or Straight Air Brakes	L—Tilt Cab
B—90" BBC (Bumper to back of Cab)	P—Forward Control Chassis
D—Diesel Engine	PB—Forward Control Chassis with Body
H—Heavy Duty	S—School Bus
I—In-Line Engine	V—Vacuum-Hydraulic Brakes
K—4-Wheel Drive	W—Tandem Rear Axles

The last digit (or two digits) of the model number indicate the wheelbase.

Thus, a DLVH5009 is a 5000 Series heavy duty truck having a diesel engine, tilt cab, vacuum-hydraulic brakes, and a number 9 (133-inch) wheelbase.

VEHICLE SERIAL NUMBER PLATE



Vehicle identification plate containing vehicle model and serial number, and date of delivery to original purchaser, is used on all except tilt cab models. Plate is mounted on cab left door hinge pillar on models with cab, panel, or suburban body. On models with cowl, plate is mounted on engine side of dash at left side. On P/PB models, plate is mounted on steering column. On SP/DSP5000 models, location of plate is determined by the body manufacturer.

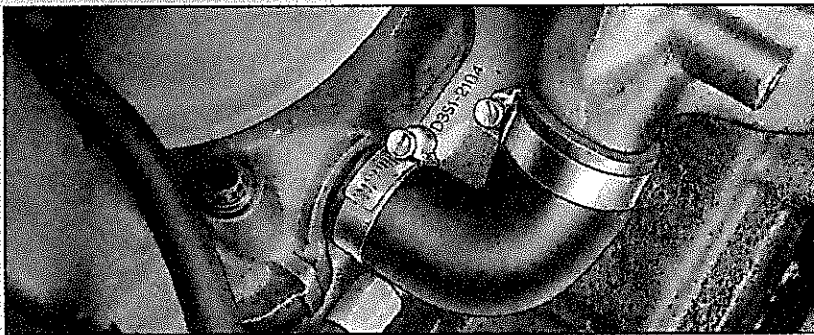
On tilt cab models, vehicle model and serial number and delivery date are shown on the Vehicle Weight Rating Plate, located on cab left door hinge pillar.

On some models, model and serial number are also shown on the service parts identification plate or decal as explained below.

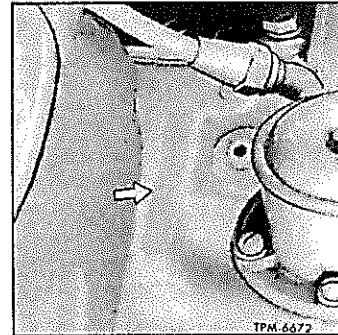


ENGINE SERIAL NUMBERS

On V-6 gas and Toro-Flow diesel engines, serial number is stamped on top of the cylinder block ahead of the right-bank cylinder head. Serial numbers are not used on in-line engines; numbers appearing on crankcase boss at rear of distributor are building date codes.



TORO-FLOW DIESEL



V-6 GAS

SERVICE PARTS IDENTIFICATION

The GMC Truck Service Parts Identification decal or plate, used on some models, is located on inside of glove compartment door, or on right-hand cowl inner panel on models with flat back cowl. This decal or plate includes, in addition to the model designation and serial number, model numbers of axle, transmission, and engine. Wheel, spring, and brake information is also shown. This information is imprinted on the decal or plate at the factory and represents only the equipment on the vehicle when it was shipped from the factory. Always refer to this information when ordering parts.

SERVICE PARTS IDENTIFICATION DECAL ALWAYS REFER TO THIS PLATE WHEN ORDERING PARTS



NOTE: Model Data will be imprinted in this space

GENERAL DATA

TRUCK SERIES	GMC ENGINE			CLUTCH			FRONT AXLE			REAR AXLE			TRANSMISSION	
	STD.	OPT.		STD.	OPT.		STD.	OPT.		STD.	OPT.		STD.	OPTIONAL
I-1000	230	—	—	10"	11"	IFS025	—	—	SP44	SP60-35	—	—	SM318	745G AT218
1000	305E	*	—	10½"	11"	IFS025	—	—	SP44	SP60-35	—	—	SM318	745G AT218
K1000	305E	*	—	11"	—	FH033	—	—	SP44	—	—	—	SM318	745G SM420
P/PB1000	153	230	—	10"	11"	IFS025	—	—	H035	—	—	—	SM318	189B SM420 AT218
I-1500	230	—	—	10"	11"	IFS030	—	—	SP60	—	—	—	SM318	745G SM420 AT218
1500	305E	*	—	10½"	11"	IFS030	—	—	SP60	—	—	—	SM318	745G SM420 AT218
K1500	305E	*	—	11"	—	FH035	FDH035	—	SP60	—	—	—	SM318	745G SM420
P/PB1500	230	292	—	11"	—	F040	—	—	H052	—	—	—	SM318	189B SM420 AT218
I-2500	230	—	—	11"	—	IFS035	—	—	H072	—	—	—	SM420	—
2500	305E	*	—	10½"	11"	IFS035	—	—	H072	—	—	—	SM420	—
P/PB2500	230	292	—	11"	—	F040	—	—	H072	—	—	—	SM420	189B
3500	305E	*	—	11"	12"	F040	F050	H110	H135	H150	T150	—	SM420	435
B3500	305E	*	—	11"	12"	F040	F050	H110	H135	H150	T150	—	SM420	435
D3500	D351	—	—	11"	12"	F040	F050	H110	H135	H150	T150	—	SM420	435
L3500	305E	*	—	11"	12"	F050	—	—	H110	H135	H150	T150	SM420	435
P3500	230	292	—	11"	—	F040	F050	H110	H135	H150	T150	—	SM420	—
A/V4000	305C	351	12"	12"	13"	F050	F070	H150	1618	T150	G161	16802	SM420	435 540GL 540GD
DA/DV4000	D478	DH478	12"	13"	13"	F050	F070	H150	G161	1618	T150	G361	SM420	435 540GL 540GD
BA/BV4000	305C	351	12"	12"	13"	F070	—	—	1618	16802	—	—	SM420	435 540GL 540GD
BA/BV4000	305C	351	12"	12"	13"	F050	F070	H150	1618	G161	T150	G361	SM420	435 540GL 540GD
DBA/DBV4000	D478	DH478	12"	13"	13"	F050	F070	H150	G161	1618	T150	G361	SM420	435 540GL 540GD
BAH/BVH4000	305C	351	12"	12"	13"	F070	—	—	1618	16802	—	—	SM420	435 540GL 540GD
KV4000	305C	351	12"	12"	13"	F070	—	—	1618	16802	—	—	SM420	435 540GL 540GD
LA/LV4000	305C	351	12"	12"	13"	F070	—	—	H150	G161	1618	—	SM420	435 540GL 540GD
DLA/DLV4000	D478	DH478	12"	13"	13"	F070	—	—	H150	G161	1618	T150	SM420	435 540GL 540GD
LAH/LVH4000	305C	351	12"	12"	13"	F070	—	—	H150	G161	1618	T150	SM420	435 540GL 540GD
SA/SV4000	305C	351	12"	12"	13"	F055	F070	H150	G161	1618	T150	G361	SM420	435 540GL 540GD
DSA/DSV4000	D478	DH478	12"	13"	13"	F055	F070	H150	G161	1618	T150	G361	SM420	435 540GL 540GD
A/V5000	351	—	—	12"	13"	F070	F090/F110	1618	1790A	16802	17800	—	SM420	435 540GL 540GD
AH/VH5000	401	—	—	13"	14"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
DAH/DVH5000	DH478	—	—	12"	13"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
BA/BV5000	351	—	—	12"	13"	F070	F090/F110	1618	1790A	16802	17800	—	SM420	435 540GL 540GD
BAH/BVH5000	401	—	—	13"	14"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
DBAH/DBVH5000	DH478	—	—	12"	13"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
LA/LV5000	351	—	—	12"	13"	F070	F090/F110	1618	1790A	16802	17800	—	SM420	435 540GL 540GD
LAH/LVH5000	401	—	—	13"	14"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
DLAH/DLVH5000	DH478	—	—	12"	13"	F070	F090/F110	1790A	17800	—	—	—	SM420	435 540GL 540GD
SA/SV5000	351	—	—	12"	13"	F070	—	—	1618	16802	—	—	SM420	435 540GL 540GD
WA/WV5000	351	401	12"	12"	13"/14"	F070	F090/F110	30DS	—	—	—	—	SM420	435 540GL 540GD
DWA/DWV5000	DH478	—	—	12"	13"	F070	F090/F110	30DS	34M	—	—	—	SM420	435 540GL 540GD
SPA/SPV5000	351	401/478	12"	13"/14"	F090	—	—	H140	H340	H162	H362	L362	SM420	435 540GL 540GD
DSPA/DSVP5000	DH478	—	—	12"	13"	F090	—	H140	H340	H162	H362	—	SM420	435 540GL 540GD

*305E Heavy Duty Engine Optional. **5831B and 6041 Auxiliary Transmission also optional.

GENERAL DATA

VEHICLE WEIGHT RATING

Vehicle Rating Plate is located on cowl left side panel inside the cab on all except tilt cab models; on tilt cab models, rating plate is located on cab left door hinge pillar.

On all models 4000 and 5000 (except WV and WA5000), the GVW rating shown on the Vehicle Rating Plate is indicated by footnote (1) in the Load Capacity Chart. This rating requires the use of tire sizes specified on the chart, and in some cases the use of optional chassis equipment as indicated on the chart; rating may be increased or decreased in accordance with the minimum equipment specified on the chart.

On all other models (including WV and WA5000), the standard GVW rating is indicated by footnote (5) in the Load Capacity Chart; however, the actual GVW for which the vehicle is rated is stamped on the Vehicle Rating Plate.

As indicated on the Vehicle Rating Plate, "Equipment and Tires for Gross Vehicle Weight Ratings are Listed in Load Capacity Chart in Owner's and Driver's Manual. Warranty Void if Rating is Exceeded." If vehicle is to be operated at its full GVW rating, tires of compatible capacity must be used.

GMC TRUCK
MANUFACTURED BY
GMC TRUCK & COACH DIVISION
GENERAL MOTORS CORPORATION
PONTIAC, MICHIGAN U.S.A.
FOOTNOTE (1) AND TIRE SIZE GROSS VEHICLE WEIGHT RATING AND TIRE SIZE LISTED IN LOAD CAPACITY CHART IN OWNER'S AND DRIVER'S MANUAL. WARRANTY VOID IF RATING IS EXCEEDED.
SERIAL NUMBER

MAXIMUM GVW RATING
GVW RATING
ENGINE
CERTIFIED NET HORSEPOWER
AT

GMC TRUCK
MANUFACTURED BY
GMC TRUCK & COACH DIVISION
GENERAL MOTORS CORPORATION
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MAXIMUM GVW RATING

GVW RATING
ENGINE
CERTIFIED NET HORSEPOWER
AT

Typical Vehicle Identification and Rating Plates

Explanation of GVW and GCW

Gross Vehicle Weight (GVW) is defined as "The Maximum Gross Vehicle Weight shall include the weight in pounds of the truck chassis with lubricants, water, and full tank or tanks of fuel, plus the weights of the cab or driver's compartment, body, special chassis and body equipment, and payload."

Gross Combination Weight (GCW) rating applies to a truck with trailer (or combination of trailers) attached. GCW expresses the total weight of the truck, trailer (or trailers), and the payload in the truck and trailers.

(*) TRUCK SERIES	GMC ENGINE		CLUTCH		FRONT SUSPENSION		WHEELBASES (In Inches) (Wheelbase Numbers in Parentheses)					
	STD.	OPT.	STD.	OPT.	STD.	OPT.						
SV5000 SA5000	351	...	12"	13"	F070		243 (19)	261½ (22)				
WV5000 WA5000	351	401	12"	(**) 13"	F070	F090, F110	157 (5)	175 (8)	193 (11)			
SPV5000 SPA5000	351	401-478	12"	(**) 13"	F090		172 (9)	227 (19)				
BV5500 BA5500	401	...	13"	14"	F070	F090, F110	133 (3)	145 (5)	163 (8)	181 (11)		
LV5500 LA5500	401	...	13"	14"	F090	F110	98 (3)	109 (5)	133 (9)	146 (11)		
WV5500	401	...	13"	14"	F090	F110	157 (5)	175 (8)	193 (11)			
WA5500	401	...	13"	14"	F090	F110, F150	157 (5)	175 (8)	199 (12)	211 (14)		
BWA5500	401	...	13"	14"	F090	F150	163 (8)	181 (11)	187 (12)			
LWA5500	401	...	13"	14"	F110	F150	122 (7)	140 (10)	158 (13)			
A6000	401	...	13"	14"	F090	F110	133 (1)	145 (3)	157 (5)	175 (8)	197 (11)	211 (14)
BA6000	401	...	13"	14"	F090	F110	133 (3)	139 (4)	145 (5)	163 (8)	181 (11)	199 (14)
LA6000	401	...	13"	14"	F090	F110	98 (3)	109 (5)	133 (9)	146 (11)	163 (14)	
A6500	478	...	14"	...	F090	F110	133 (1)	145 (3)	157 (5)	175 (8)	197 (11)	211 (14)
BA6500	478	...	14"	...	F090	F110	133 (3)	139 (4)	145 (5)	163 (8)	181 (11)	199 (14)
LA6500	478	...	14"	...	F090	F110	98 (3)	109 (5)	133 (9)	146 (11)	163 (14)	
WA6500	478	...	14"	...	F090	F110, F150	157 (5)	175 (8)	199 (12)	211 (14)		
B7000	702	...	14"-2	...	F090	F110	134 (3)	140 (4)	146 (5)	164 (8)	182 (11)	
L7000	702	...	14"-2	...	F110		98 (3)	108 (4)	116 (6)	128 (8)	146 (11)	
BW7000	702	...	14"-2	...	F110	F150	146 (5)	164 (8)	182 (11)	188 (12)		

(*) Letters prefixing the Truck Series are: A—Air Operated Brakes; B—90° BBC (bumper to back of cab); H—Heavy Duty; L—Tilt Cab; P—Forward Control Chassis; S—School Bus; V—Vacuum-Hydraulic Brakes; W—Dual Rear Axles. The last two digits of the Series number indicate the wheelbase.
Thus, an SA4022 is a 4000 Series School Bus with air operated brakes and a 261½-inch wheelbase; or, an LWA5513 is a 5500 Series truck having a tilt cab, dual rear axles, air operated brakes, and a 158-inch wheelbase.

(**) 13-inch clutch standard with optional 401 engine, 14-inch clutch optional. 14 inch clutch standard with optional 478 engine.

LOAD CAPACITY CHART

Model	GVW	GCW	Front Axle Capacity	Front Spring Capacity Total	Rear Axle Capacity	Rear Spring Capacity Total	Recommended Minimum Tire Size		Minimum Equipment Required for Gross Rating
							Front	Rear	
V, A, BV, BA-4000	15000	35000	5000	6000	15000	15000	8-22.5; 8 p.r.	8-22.5; 8 p.r.	8750 lbs. each rear spring. 16000 lb. rear axle, 8750 lbs. each rear spring, H.D. brake booster on V, BV models. 7000 lb. front axle, 3500 lbs. each front spring, (standard) 15000 lb. rear axle, 8750 lbs. each rear spring, H.D. brake booster on V, BV models, H.D. frame or 'L' type frame reinforcement. 7000 lb. front axle, 3500 lbs. each front spring, 16000 lb. rear axle, 8750 lbs. each rear spring, H.D. brake booster on V, BV models, H.D. frame or 'L' type frame reinforcement.
	(1) 19500					17500	9-22.5; 10 p.r.	9-22.5; 12 p.r.	
	(2) 20000						16000	9-22.5; 10 p.r.	
	(2) 21000								
	(2) 22000								
(2) 23000		7000	7000	15000	16000				
LV, LA-4000	15000	35000	7000	7000	15000	15000	8-22.5; 8 p.r.	8-22.5; 8 p.r.	8750 lbs. each rear spring. 8750 lbs. each rear spring, H.D. brake booster on LV model. 16000 lb. rear axle, 8750 lbs. each rear spring, H.D. brake booster on LV model.
	(1) 19500					17500	9-22.5; 10 p.r.	9-22.5; 12 p.r.	
	(2) 20000						16000	9-22.5; 10 p.r.	
	(2) 21000								
	(2) 22000								
	(2) 23000								
VH, AH, BVH, BAH, LVH, LAH-4000	15000	42000	7000	7000	17000	18400	7.50/20; 8 p.r.	7.50/20; 8 p.r.	10400 lbs. each rear spring.
	(1) 24000					20800	8.25/20; 10 p.r.	9.00/20; 10 p.r.	
SV, SA-4000	15000	—	5500	6000	15000	15000	8-22.5; 8 p.r.	8-22.5; 8 p.r.	8750 lbs. each rear spring. 7000 lb. front axle, 3500 lbs. each front spring, 8750 lbs. each rear spring. 7000 lb. front axle, 3500 lbs. each front spring, 16000 lb. rear axle, 8750 lbs. each rear spring, H.D. brake booster on SV model.
	(1) 19500					17500	9-22.5; 10 p.r.	9-22.5; 10 p.r.	
	(2) 20000						9-22.5; 10 p.r.	9-22.5; 12 p.r.	
	(2) 21000		16000	17500	10-22.5; 10 p.r.	10-22.5; 10 p.r.			
	(2) 22000								
	(2) 23000								

Refer to page 97 for footnotes

LOAD CAPACITY CHART (Continued)

Model	GVW	GCW	Front Axle Capacity	Front Spring Capacity Total	Rear Axle Capacity	Rear Spring Capacity Total	Recommended Minimum Tire Size		Minimum Equipment Required for Gross Rating	
							Front	Rear		
KV-4000	15000	Truck Only	7000	9000	15000	22000	7.50/20; 8 p.r.	7.50/20; 8 p.r.	16000 lb. rear axle, H.D. brake booster. 17000 lb. rear axle, H.D. brake booster.	
	(1) 19500				16000		8.25/20; 10 p.r.	8.25/20; 10 p.r.		
	(2) 21000									
	(2) 24000									
V, A, BV, BA, LV, LA-5000	18500	42000	7000	7000	17000	18400	8.25/20; 10 p.r.	8.25/20; 10 p.r.	9000 lb. front axle, 4500 lbs. each front spring, (standard) 17000 lb. rear axle, 10400 lbs. each rear spring, 'L' type frame reinforcement (except LV, LA-5000). 18500 lb. rear axle, 10400 lbs. each rear spring.	
	24000				18500		20800	8.25/20; 10 p.r.		9.00/20; 10 p.r.
	25500							9.00/20; 10 p.r.		10.00/20; 12 p.r.
	(1) 26000							17000		9.00/20; 12 p.r.
	(7)	45000	7000	7000	18500	(6)	9.00/20; 12 p.r.			
VH, AH, BVH, BAH, LVH, LAH-5000	18500	51000	7000	7000	18500	18400	8.25/20; 10 p.r.	8.25/20; 10 p.r.	10400 lbs. each rear spring. 9000 lb. front axle, 4500 lbs. each front spring, 11000 lbs. each rear spring, 'L' type frame reinforcement (except LVH, LAH-5000).	
	25500				20800		9.00/20; 10 p.r.	10.00/20; 12 p.r.		
	(1) 27000				9000		9000	22000		9.00/20; 12 p.r.
WV, WA-5000	(5) 37000	51000	7000	7000	30000	30000	8.25/20; 10 p.r.	8.25/20; 10 p.r.	9000 lb. front axle, 4500 lbs. each front spring. (4)	
	39000		9000	9000	(11)		(11)			
SV, SA-5000	19000	—	7000	7000	17000	18400	8.25/20; 10 p.r.	8.25/20; 10 p.r.		
	(1) 24000						9.00/20; 10 p.r.	9.00/20; 10 p.r.		
SPV, SPA-5000	(1)(7) 26000	—	9000	9000	17000	18400	9.00/20; 10 p.r.	9.00/20; 10 p.r.		
BV, BA-5500	(5) 25500	51000	7000	7000	18500	20800	9.00/20; 10 p.r.	9.00/20; 10 p.r.	9000 lb. front axle, 4500 lbs. each front spring, 11500 lbs. each rear spring. (4) 11000 lb. front axle, 5500 lbs. each front spring, 11500 lbs. each rear spring. (4)	
	27000		9000	9000	23000		(11)	(11)		
	28000		11000	11000						

Refer to page 97 for footnotes

MODELS	1960	1961	1962	1963	1964	1965	1966	1967
BWV-BWA-5000	N-1001	N-2001	N-3001					
LV-LA-5000	N-1001	N-2001	N-3001	G-1001	G-2001	G-3001		
LVH-LAH-5000				G-1001	G-2001	G-3001		
DLVH-DLAH-5000					F-1001	F-2001		
LWV-LWA-5000	N-1001	N-2001						
SV-SA-5000	N-1001	N-2001	J-1001	G-1001	G-2001	G-3001		
SPV-SPA-5000	N-1001	N-2001	N-3001	N-4001	N-5001	N-6001		
DSPV-DSPA 5000					F-1001	F-2001	*	*
WV-WA-5500		N-1001	J-1001	J-2001	F-1001	F-2001		
BV-BA-5500	N-1001	N-3001	N-4001	G-1001	F-1001	F-2001		
BWV-BWA-5500	N-1001	N-2001	N-3001	N-4001	F-1001	F-2001		
LV-LA-5500	N-1001	N-2001	J-1001	J-2001	J-3001	J-4001		
LWA-5500	N-1001	N-2001	N-3001	N-4001	N-5001	N-6001	*	*

NOTE: First serial numbers used in 1966 and 1967 Production will follow the last serial number used in 1965 and 1966.

EG-5500V-A								C-1001
EM-5500V								
A-M-Y								C-1001
ES-5500V								
-A-M-Y								C-1001
SG-5500M								
-Y								C-1001
SM-5500M								
-Y								C-1001
SS-5500M								
-Y								C-1001
HG-5500V								
-A							D-1001	D-2001
HM-5500V								
-A							D-1001	D-4001
DB-5900						E-1001		
DBW-5900						E-1001		
DL-5900						E-1001		
A-6000				G-1001	F-1001	F-2001		
BV-BA-6000	N-1001	N-2001	N-3001	N-4001	F-1001	F-2001		