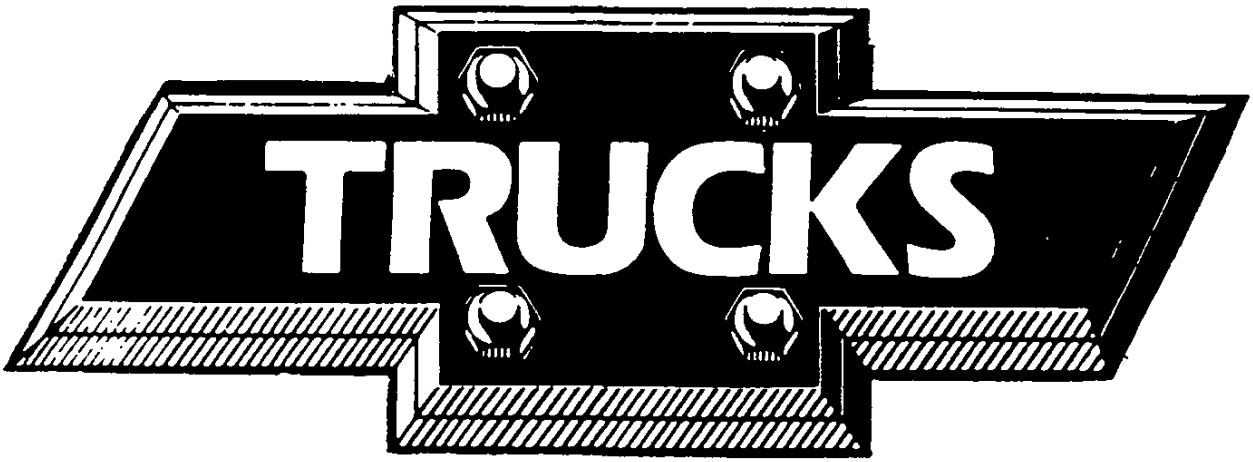
CHEVROLET



1948

TRUCKS

ACCESSORIES

Definition: Items made available at extra cost through the Parts and Accessories Department and installed by the customer or his dealer.

ITEM		UNIT IDENTIFICATION	DRAWING NUMEER	AVAILABLE FOR MODELS
Antenna	Radio-rod type	986069	3847073	All
Arm rest	Door-right or left hand (Maroon)	986154	3847466	All except 3116
	Door-right hand only (Brown)	986167	3847579	3116
Cap	Gas tank filler locking	985076	602767	All
Compass	Auto	986131	3847317	
Connector	Tire air transfer	986134	3847315	
	Spare tire valve air outside	985485	603650	
Cover	Radiator	986127	3847222	
Cover	Seat (Maroon)	986145		All cabs
Cushion	Back rest	985847		All
Defroster	Windshield rubber blade fan & brkt.	986111	3847138	
	Windshield electric heater	601168		
Dispenser	Tissue	985858		
Filter	Gasoline	986118	3847196	
Frame	License plate	985849	606409	
		986233	3689381	
Governor	Thrift-Master Engine	985965	609359	3000-4100-4400
Guard	Bumper (curved type)	986113	3847133	3000
	Radiator grille (curved type bumper)	986152	3847476	
	Radiator grille (channel type bumper)	986153	3847477	4000-5000-6000
Heater	And defroster (with fresh air inlet)	986104	3119367	All except flat face cowl chassis
	Deluxe (combined heater and blower defroster unit)	986245 plus 986246		All
Horns	Matched	986099	3847086	3000-4000-6000
Hydrometer	Antifreeze	985970		All
Lamps	Fog (double) Guide-sealed beam	986163	3847578	
	Spot & bracket Guide	986171	3847606	3000-4000-6000
	Unity	986173	3847604	All
	Trouble (magnetic)	986174	3847605	
	Tail & stop (universal use)	986142	3847392	
	Load compartment	986150	3847593	Panel Trucks
	Under hood	986112	3847130	3000-4000-6000
	Package compartment light & switch	986110	1997742	All
	Directional signal-front & rear	986179	3847627	
Lighter	Cigarette	986236	3689547	
Mat	Tire traction	986108	3847142	
Mirror	Rear view (prismatic)	985994	917316	
	Rear view	986129	3847217	
	Bracket-rear view	986130	3847329	
Ornament	Hood	986161	3847581	3000
		986162	3847584	4000-6000
Pad	Seat-ventilated	985086	603276	All
Plug, magnetic	Rear axle filler	985287	602739	
	Transmission drain	985288	602745	
	Oil pan drain	985293	603045	
Pocket	Utility	986224	3689352	
Radio	Delco receiving set plus antenna	986185		All except flat face cowl chassis
Reflector	Reflex (4 inch) red	985223	602744	All
Scraper	Windshield	986194	3847692	
Screen	Radiator insect	986119	3847224	
Shaver	Electric	986233		
Shield	Windshield (frost)	985702	605017	
Sunshade	Right hand	986155	3847464	
Tank	Radiator overflow	985528	604039	
Thermostat	151°	3121254	3121496	
	161°	3121251	3121497	
	180°	3121280	3121400	
Valve	Heater shutoff	985533	3113435	
Washer	Windshield	986041	609731	3000-4000-6000

EXTERIOR COLORS AND FINISHES

ITEM			BASIC AND DECORATIVE FINISHES		
			Carryall Suburban	Conventional Trucks	Cab-over-engine Trucks
Bumpers	Thriftmaster		Chrome plated		
	Loadmaster			Anvil Gray Baking Dulux	
Gravel Deflectors			Channel Green Bak. Dul.	Forester Green Baking Dulux	
Regular Radiator Grille	Bar Assys.	Outer	Chrome plated		
		Inner	Channel Green Bak. Dul.		
	Outer bar stripes			Cream Med. Striping Duco.	One stripe on each bar.
RPO Rad. Grille θ	Bar Assys.	Outer		Chrome plated	
		Inner		Forester Green Bak. Dul.	
Hood	Hood proper		Channel Green Baking Dulux	Forester Green Baking Dulux	Forester Green Baking Dulux
	Center molding				
	Hood handles				(chrome plated hinges)
	Em-blem	Trade mark	Cloisonne Blue Metallic Baking Dulux		
		Stripes & letters	Vermilion Baking Dulux "CHEVROLET"		
		Background	Chrome plated		
	Name plate	Stripes & letters	Vermilion Baking Dulux "THRIFTMASTER" or "LOADMASTER" see page 57		
		Background	Chrome plated including lettering, "CHEVROLET".		
Head-lamps	Rims		Chrome plated		
	Doors				
Fenders	Fenders proper		Channel Green Bak. Dul.	Forester Green Baking Dulux	
	Anti-squeak		Black		
	Fender step panel				Forester Green Bak. Dul.
	Fender scuff mat				Black rubber
	RPO moldings ✲			Polished stainless steel (Panel models only)	
Regular wheels			Fathom Green Bak.Dul.	Black Baking Dulux	
Hub caps (See page 57)			Chrome plated. Vermilion Baking Dulux Letters		
RPO Wheels ✲	Wheels proper			Forester Green Bak. Dul.	
	Striping (See page 57)	15"rims	No stripes		
		16"rims	Three stripes of Cream Medium Striping Duco		
		17"rims	Two stripes of Cream Medium Striping Duco		
Cab or single unit body proper including the belt molding.			Upper body - Fathom Green Baking Dulux. Lower body - Channel Green Baking Dulux.	Forester Green Baking Dulux	
Cab or single unit body striping on belt molding.			One stripe of Cream Medium Striping Duco		
Wind-shield	Seal		Black rubber		
	Reveal molding		Polished stainless steel	RPO only. Polished stainless steel.✲	
	Divider bar		Polished stainless steel.		
	Wipers		Chrome plated rods and bars. Stainless steel optional		
Rear View Mirror	Arm		Black Baking Dulux		
	Mirror case				
Side Door Window Reveals		Regular	Fathom Green Bak. Dul.	Forester Green Baking Dulux	
		RPO ✲		Polished stainless steel	
Side Door Handles and Lock			Chrome plated		
Side Door Hinges					Forester Green Bak. Dul.
Assist Handles					Chrome plated
Side Window Divider Bars			Chrome plated		
Rear Window Seal			Black rubber		
RPO Rear Door Window Reveals✲				Polished stainless steel (Panel models only)	

✲ - Part of RPO 390 Deluxe Equipment.

θ - For 3000 series only. RPO 386 Radiator Grille Equipment or RPO 390 Deluxe Equipment

CONTINUED

EXTERIOR COLORS AND FINISHES—Continued

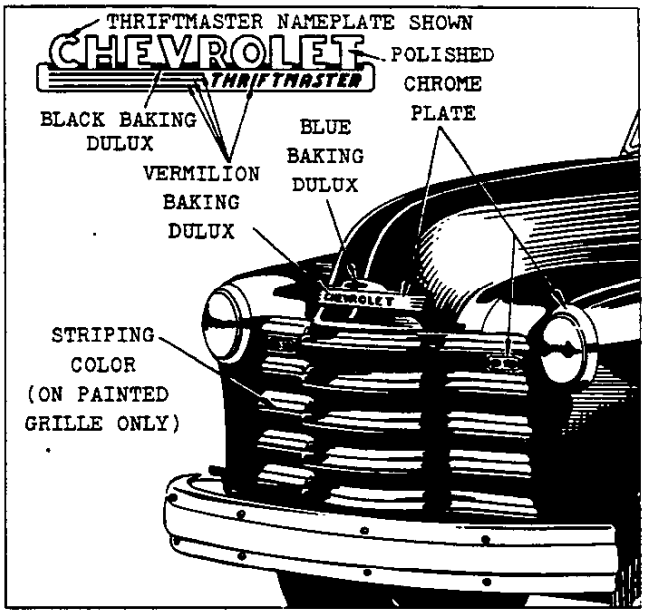
ITEM		BASIC AND DECORATIVE FINISHES		
		Carryall Suburban	Conventional Trucks	Cab-over-engine Trucks
RPO Rear Corner Window Seals*			Black rubber	
Running Boards		Black Baking Dulux		Black rubber mats
Running Board Aprons				Forester Green Bak. Dul.
Gasoline Tank	Tank proper		Black Baking Dulux	
	Filler neck			
	Filler neck seal	Black rubber		
	Cap	Single unit models, body color; all others black.		
Pickup box and aprons			Forester Green Bak. Dul.	
Stake, Express Stake, and Stock body racks			Forester Green Air Dry Dulux	
Platform	Rub rail		Black Enamel	
	Load space			
	Underbody			
RPO Metal Sign Panel			Forester Green Air Dry Dulux	
Tail and Stop Lamp	Lens	Ruby Glass		
	Body	Black		
	Rim	Polished chrome plating		

* - RPO 387 Rear Corner Window Equipment or RPO 390 Deluxe Equipment.

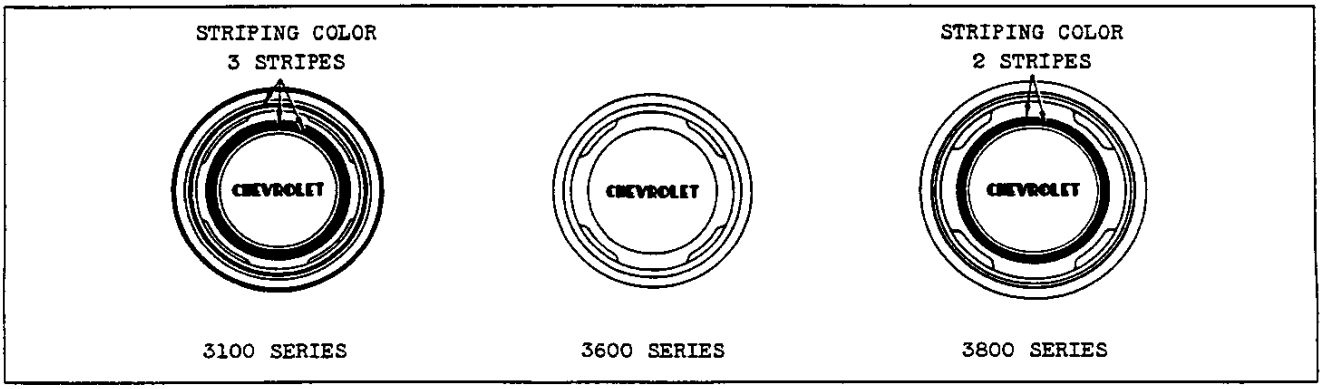
PAINT COLOR COMBINATIONS		
Regular or RPO ⊖	Basic color (Baking Dulux)	Striping color (Duco)
Regular	Forester Green. Not used on Carryall Suburban.	Cream Medium
	Pathom Green upper body. Channel Green lower body. Used on Carryall Suburban.	
234A	Swift's Red	Argent Silver
234B	Armour Yellow	Black
234C	White	Emerald Green
234D	Jet Black	Argent Silver
234E	Omaha Orange	Black
234F	Cape Maroon	Gold
234G	Mariner Blue	Cream Medium
234H	Windsor Blue	
234J	Seacrest Green	
234K	Sun Beige	Totem Scarlet
234L	Cream Medium	Black

⊖ - RPO Color Combinations are available on all models except the Carryall Suburban.

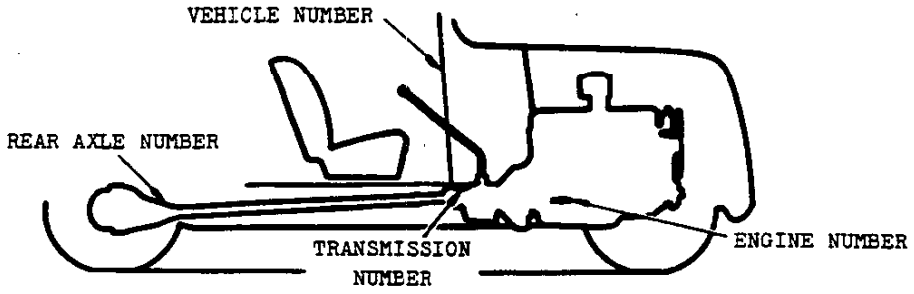
HOOD AND GRILLE APPEARANCE



WHEEL APPEARANCE



SERIAL NUMBER LOCATIONS
(See descriptions below.)



NOTE: Serial numbers were obtained from Standards Department.

UNITS				3100	3600	3800	4100	4400	4502	6702	6100	6400	5100	5400	5700
Vehicle	Prefix			FP	FR	FS	RJ	RK	RL	RX	RV*	RW*	RP*	RR*	RS*
	Number code and example			Includes symbols of assembly plant, model year, series, month assembled, and serial number. Example: 2FP-C-4321. The first figure indicates assembly plant: (1-Flint, Mich.; 2-Tarrytown, N.Y.; 3-St.Louis, Mo.; 5-Kansas City, Mo.; 6-Oakland, Calif.; 8-Atlanta, Ga.; 9-Norwood, O.; 14-Baltimore, Md.; 20-Los Angeles, Calif.; 21-Janesville, Wis.). The first two letters indicate the year and series; the third letter, the month. Serial numbers begin with 1001 at each plant and continue in sequence. 1-1/2 Ton Special models in each series are numbered in sequence with basic models in those series.												
	Plate location			Flat Face Cowl models: on plate attached to cowl left hand inner panel. All others: on plate attached to rear face of left hand door hinge pillar.											
Rear axle	Prefix	Detroit	Reg.	FE	FG	RC	RL			RG					
			RPO			RA **	RE(RPO 204)			RN(RPO 202 2-speed)					
		Buffalo	Reg.	FF	FH	RD	RM			RH					
			RPO			RB **	RF(RPO 204)			RP(RPO 202 2-speed)					
	Number code			Includes symbols for model year, model, manufacturing plant, and month and day of assembly. Example: RC-507. R = 1948 model year; C = regular 3800 rear axle, built in Detroit; 5 = fifth month; 07 = seventh day.											
	Stamp location			3100 - on front face of differential carrier flange, right side. All others - on top of differential carrier, at right side.											
Engine	Prefix	Flint	Reg.	FBA	AFCA		FCA			FEA			FDA		
			RPO 227	BFCA											
			RPO 225				AFEA								
			RPO 212				FCD								
		Tonawanda	Reg.	FBM	AFCM		FCM			FEM			FDM		
			RPO 227	BFCM											
			RPO 225				AFEM								
			RPO 212				FCQ								
	Number code			Serial numbers begin with 1001 at each plant and continue in sequence.											
	Stamp location			On crankcase at rear of distributor, on right side of engine.											
Transmission	Prefix	Saginaw	Reg.	FN	FQ	RA							RD		
			RPO	RK(RPO 318)					RG(RPO 348)						
		Muncie	Reg.	FO	FR	RB							RE		
			RPO	RL(RPO 318)					RH(RPO 348)						
		Toledo	Reg.	FP	FS	RC							RF		
			RPO	RM(RPO 318)					RJ(RPO 348)						
	Number code			3-speed - start with 1001 at each plant and continue in sequence. 4-speed - start with 1001 at each plant and continue in sequence.											
	Stamp location			3-speed - on left side of case at rear of cover. 4-speed - on rear of case, just below cover at left side.											

* - RVS on 6100S, RWS on 6400S, RPS on 5100S, RRS on 5400S, and RSS on 5700S Series.

** - RA and RB on models 3802-03-08-12-22-32 with RPO 295.

VEHICLE WEIGHT DEFINITIONS

SHIPPING WEIGHT: This weight is establisned by the Traffic Department; it is the basic weight of the vehicle with all regular equipment and with grease and oil wherever required. It does not include the weights of gasoline or water.

CURB WEIGHT: This is the weight of the empty vehicle ready to drive. It is the shipping weight plus the weight of gasoline, water, and spare tire on models which do not include the spare tire as basic equipment.

FOR GROSS VEHICLE WEIGHT: See page 100

LIGHT DUTY TRUCK WEIGHTS

TRUCK RATING AND WHEELBASE	MODEL	DESCRIPTION	SHIPPING			CURB		
			FRONT	REAR	TOTAL	FRONT	REAR	TOTAL
1/2 Ton 116 Wheelbase	3102	Flat Face Cowl Chassis θ	1530	930	2460	1570	1020	2590
	3103	Cab Chassis	1790	1165	2955	1835	1250	3085
	3104	Pickup Truck	1790	1440	3230	1835	1525	3360
	3105	Panel Truck	1755	1705	3460	1800	1790	3590
	3107	Canopy Express Truck •	1760	1640	3400	1810	1720	3530
	3112	Windshield Cowl Chassis θ	1585	970	2555	1625	1060	2685
	3116	Carryall Suburban	1770	1945	3715	1815	2030	3845
	3122	Flat Face Cowl Stripped Chassis θ			2105			2265
	3132	Windshield Cowl Stripped Chassis θ			2200			2360

MEDIUM DUTY TRUCK WEIGHTS x

TRUCK RATING AND WHEELBASE	MODEL	DESCRIPTION	SHIPPING			CURB		
			FRONT	REAR	TOTAL	FRONT	REAR	TOTAL
3/4 Ton 125-1/4 Wheelbase	3602	Flat Face Cowl Chassis	1685	1080	2765	1750	1185	2935
	3603	Cab Chassis	1950	1280	3230	2015	1385	3400
	3604	Pickup Truck	1955	1635	3590	2020	1740	3760
	3608	Platform Truck θ			3585			3755
	3609	Stake Truck	1955	1835	3790	2020	1940	3960
	3612	Windshield Cowl Chassis θ	1745	1115	2860	1810	1220	3030
	3622	Flat Face Cowl Stripped Chassis	1445	1050	2495	1510	1165	2665
	3632	Windshield Cowl Stripped Chassis θ	1505	1085	2590	1570	1190	2760
1 Ton 137 Wheelbase	3802	Flat Face Cowl Chassis θ			2985			3170
	3803	Cab Chassis	2140	1340	3480	2195	1470	3665
	3804	Pickup Truck	2165	1820	3985	2220	1950	4170
	3805	Panel Truck	2075	2170	4245	2130	2300	4430
	3807	Canopy Express Truck θ			4245			4430
	3808	Platform Truck	2160	1880	4040	2215	2010	4225
	3809	Stake Truck	2165	2110	4275	2220	2240	4460
	3812	Windshield Cowl Chassis θ			3080			3265
	3822	Flat Face Cowl Stripped Chassis θ			2730			2915
	3832	Windshield Cowl Stripped Chassis θ			2825			3010

HEAVY DUTY TRUCK WEIGHTS x

TRUCK RATING AND WHEELBASE	MODEL	DESCRIPTION	SHIPPING			CURB		
			FRONT	REAR	TOTAL	FRONT	REAR	TOTAL
1-1/2 Ton 137 Wheelbase	4102	Flat Face Cowl Chassis θ	2020	1405	3425	2065	1555	3620
	4103	Cab Chassis	2295	1765	4060	2345	1900	4245
	4108	Platform Truck	2275	2315	4590	2325	2450	4775
	4109	Stake Truck	2285	2530	4815	2335	2665	5000
	4112	Windshield Cowl Chassis θ	2080	1440	3520	2125	1590	3715
	4122	Flat Face Cowl Stripped Chassis θ			3130			3325
	4132	Windshield Cowl Stripped Chassis θ			3225			3420

CONTINUED

θ - Traffic Department Estimated Weights.

2-1-48. Revised: 5-5-48; 7-30-48, • - Weight revised, x - Series reclassified.

HEAVY DUTY TRUCK WEIGHTS—Continued •

TRUCK RATING AND WHEELBASE	MODEL	DESCRIPTION	SHIPPING			CURB		
			FRONT	REAR	TOTAL	FRONT	REAR	TOTAL
1-1/2 Ton 161 Wheelbase	4402	Flat Face Cowl Chassis θ	2105	1440	3545	2160	1580	3740
	4403	Cab Chassis	2410	1770	4180	2475	1890	4365
	4408	Platform Truck	2425	2480	4905	2490	2600	5090
	4409	Stake Truck	2485	2730	5215	2550	2850	5400
	4412	Windshield Cowl Chassis θ	2170	1470	3640	2225	1610	3835
	4418	Express Platform Truck	2410	2510	4920	2475	2630	5105
	4419	High Rack (Stock) Truck	2450	3055	5505	2515	3175	5690
	4422	Flat Face Cowl Stripped Chassis θ			3250			3445
	4429	Express Stake Truck	2475	2810	5285	2540	2930	5470
	4432	Windshield Cowl Stripped Chassis θ			3345			3540
2 Ton COE 110 Wheelbase	5103*	Cab Chassis x	2645	1900	4545	2715	2040	4755
	5108*	Platform Truck x θ			5080			5290
	5109*	Stake Truck x θ			5315			5525
	5112*	Windshield Cowl Chassis x θ			4135			4345
2 Ton COE 134 Wheelbase	5403*	Cab Chassis x	2710	1885	4595	2785	2020	4805
	5408*	Platform Truck x θ			5305			5515
	5409*	Stake Truck x θ			5590			5800
	5412*	Windshield Cowl Chassis x θ			4185			4395
	5418*	Express Platform Truck x θ			5285			5495
	5419*	High Rack (Stock) Truck x θ			5855			6065
	5429*	Express Stake Truck x θ			5615			5825
2 Ton COE 158 Wheelbase	5703*	Cab Chassis x	2775	1915	4690	2870	2030	4900
	5712*	Windshield Cowl Chassis x θ			4280			4490
2 Ton Conventional 137 Wheelbase	6102*	Flat Face Cowl Chassis θ	2165	1855	4020	2215	2015	4230
	6103*	Cab Chassis	2460	2055	4515	2510	2215	4725
	6108*	Platform Truck	2445	2675	5120	2495	2835	5330
	6109*	Stake Truck	2450	2895	5345	2500	3055	5555
	6112*	Windshield Cowl Chassis θ	2225	1890	4115	2275	2050♦	4325
	6122*	Flat Face Cowl Stripped Chassis θ			3725			3935
	6132*	Windshield Cowl Stripped Chassis θ			3820			4030
2 Ton Conventional 161 Wheelbase	6402*	Flat Face Cowl Chassis θ	2205	1875	4080	2270	2020	4290
	6403*	Cab Chassis	2535	2040	4575	2600	2185	4785
	6408*	Platform Truck	2565	2805	5370	2630	2950	5580
	6409*	Stake Truck	2620	3070	5690	2685	3215	5900
	6412*	Windshield Cowl Chassis θ	2270	1905	4175	2335	2050	4385
	6418*	Express Platform Truck	2560	2795	5355	2625	2940	5565
	6419*	High Rack (Stock) Truck	2640	3245	5885	2705	3390	6095
	6422*	Flat Face Cowl Stripped Chassis θ			3785			3995
	6429*	Express Stake Truck	2625	3080	5705	2690	3225	5915
	6432*	Windshield Cowl Stripped Chassis θ			3880			4090

* - Shipping weight and curb weight is approximately the same for corresponding 5100S, 5400S, 5700S, 6100S, and 6400S models in the "1-1/2 Ton Special" series.

SCHOOL BUS CHASSIS WEIGHTS

TRUCK RATING AND WHEELBASE	MODEL	DESCRIPTION	SHIPPING			CURB		
			FRONT	REAR	TOTAL	FRONT	REAR	TOTAL
1-1/2 Ton 161 Wheelbase	4502	School Bus Flat Face Cowl Chassis	2140	1720	3860			4120
2 Ton 199 Wheelbase	6702	School Bus Flat Face Cowl Chassis	2330	2100	4430	2440	2275	4715

θ - Traffic Department Estimated Weights.

2-1-48. Revised: 5-5-48; 7-30-48, • - Series reclassified, x - Weights added, ♦ - Weight corrected.

EQUIPMENT WEIGHTS *

EQUIPMENT	SHIPPING WEIGHT
Cab, Conventional, with attaching parts	607
Cab, COE, with attaching parts	617
Cowl unit, Flat Face	110
Cowl and Windshield unit	203
Body, Carryall Suburban	1357
Body, Canopy Express:	
3107	1040
3807	
Body, Panel:	
3105	1072
3805	
Body, Pickup:	
3104	259
3604	295
3804	405
Platform, Stake Truck:	
3608	378
3808-4108	514
4408	670
5108-6108	532
5408-6408	723
Platform, Express Stake Truck:	
4418	696
5418-6418	734
Racks, Stake Truck:	
3609	160
3809-4109-5109-6109	238
4409-5409-6409	286
Racks, Express Stake Truck:	
4429-5429-6429	330
Racks, High Rack (Stock) Truck:	
4419-5419-6419	553

Each weight shown below is the total weight of one tire and tube and one wheel assembly.

TIRE SIZE AND PLY RATING	ASSEMBLY WEIGHT
6.00-16-4	44
6.00-16-6	49
6.70-15-4	44
6.70-15-6	49
6.50-16-6	52
15-6 ●	69
15-8 ●	70
7.00-17-6	85
7.00-17-8	87
7.50-17-8	93
7.00-18-8	95
6.50-20-6	96
6.50-20-8	100
7.00-20-8	107
7.00-20-10	115
7.50-20-8	126
7.50-20-10	141
8.25-20-10	151
8.25-20-12	159
9.00-20-10	188

Each weight shown below is the weight to be added when the listed equipment is specified in addition to, or in place of regular equipment. Deductions for deleted regular equipment are included in these weights.

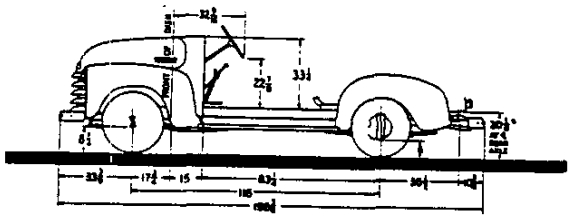
RPO EQUIPMENT	ADDITIONAL WEIGHT
Axle, two-speed:	
5000	145
6000	150
Brake, propeller shaft:	
4502-6702	35
Brake booster, hydraulic-vacuum:	
4000	28
Filter, oil:	
3000-4000-5000-6000	11
Frame, heavy duty:	
4100	55
Heater and defroster, fresh air:	
3000-4000-5000-6000	25
Long running boards and rear fenders:	
3600-3800	60
Sign panels:	
3609	7
All other stake trucks	14
Radiator, heavy duty:	
3600-3800-4000	15
Seat, auxiliary:	
3105-3107-3805-3807	40
Shock absorbers, double-acting front:	
3000	8
4000-5000-6000	23
Shock absorbers, double-acting rear:	
3100	11
3600	7
3800	21
4000-6702	38
Springs, auxiliary rear:	
4100-4400	75
Springs, two-stage rear:	
6400	Minus 35
Tank, vacuum reserve:	
4100-4400-5000-6100-6400	15
4502-6702	21
Transmission, 4-speed:	
3100-3600	77
Wheel carrier, back-of-cab:	
4100-4400	40
4100-4400 (w/inside-of-frame fuel tank)	45
5000-6100-6400	35

* - All of the weights shown on this page are sufficiently accurate for all normal purposes. However, it is recommended to those who intend to use these weights in combinations, other than those shown, that they verify their results with this department, or some other authoritative source, to avoid errors of misinterpretation.

2-1-48. Revised: 8-30-48; 10-15-48, ● - Ply rating added.

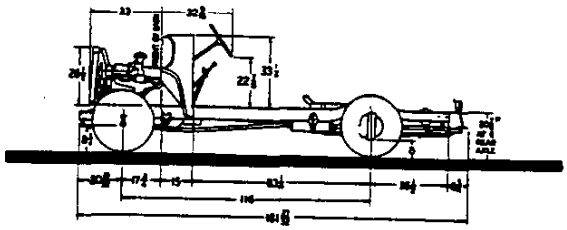
THRIFTMASTER SERIES CHASSIS DIMENSIONS

3102 1/2 TON FLAT FACE COWL CHASSIS



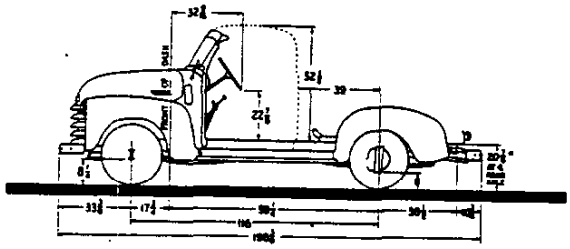
*-Loaded height with 6.00-16-6 pr tires

3122 1/2 TON FLAT FACE COWL STRIPPED CHASSIS



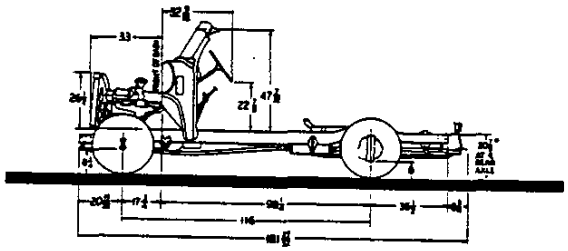
*-Loaded height with 6.00-16-6 pr tires

3103 1/2 TON CAB CHASSIS
3112 1/2 TON WINDSHIELD COWL CHASSIS



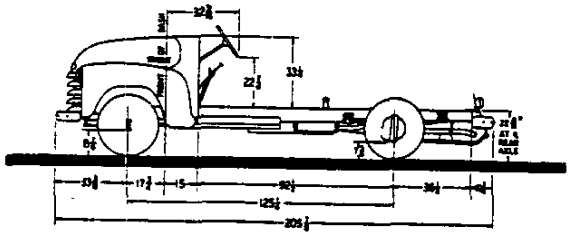
*-Loaded height with 6.00-16-6 pr tires

3132 1/2 TON WINDSHIELD COWL STRIPPED CHASSIS



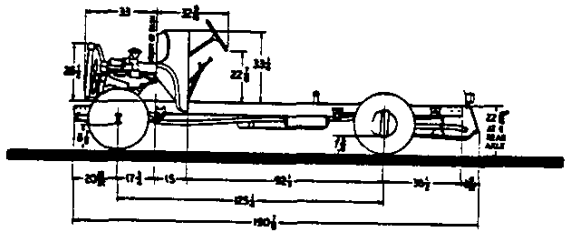
*-Loaded height with 6.00-16-6 pr tires

3602 3/4 TON FLAT FACE COWL CHASSIS



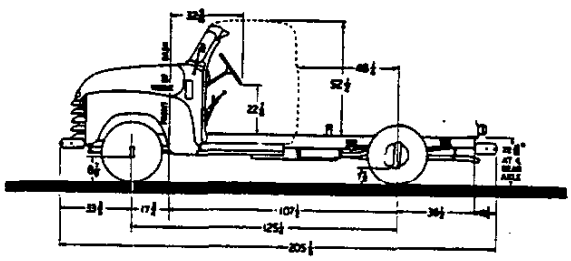
*-Loaded height with 15"-6 pr tires

3622 3/4 TON FLAT FACE COWL STRIPPED CHASSIS



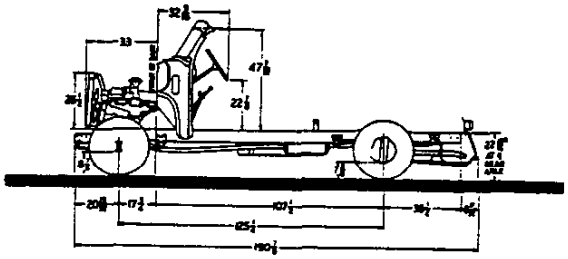
*-Loaded height with 15"-6 pr tires

3603 3/4 TON CAB CHASSIS
3612 3/4 TON WINDSHIELD COWL CHASSIS



*-Loaded height with 15"-6 pr tires

3632 3/4 TON WINDSHIELD COWL STRIPPED CHASSIS

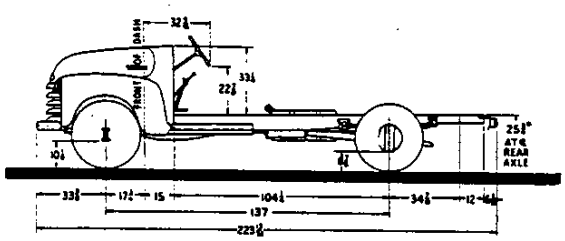


*-Loaded height with 15"-6 pr tires

CONTINUED

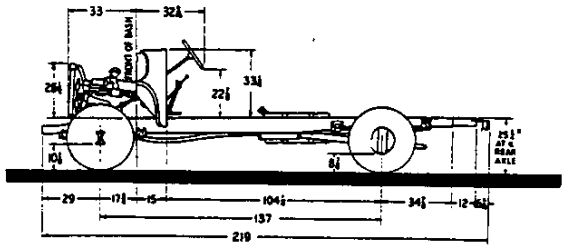
THRIFTMASTER SERIES CHASSIS DIMENSIONS—Continued

3802 1 TON FLAT FACE COWL CHASSIS



*-Loaded height with 7.00-17-6 pr tires

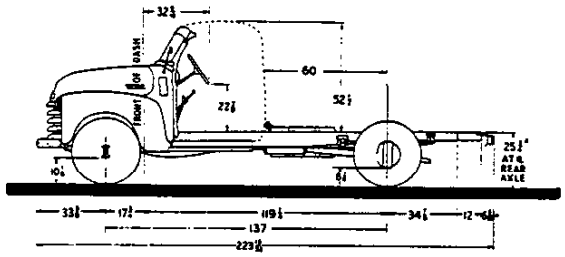
3822 1 TON FLAT FACE COWL STRIPPED CHASSIS



*-Loaded height with 7.00-17-6 pr tires

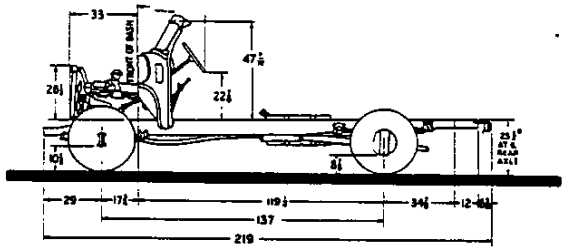
3803 1 TON CAB CHASSIS

3812 1 TON WINDSHIELD COWL CHASSIS



*-Loaded height with 7.00-17-6 pr tires

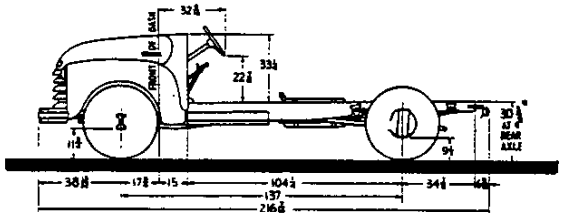
3832 1 TON WINDSHIELD COWL STRIPPED CHASSIS



*-Loaded height with 7.00-17-6 pr tires

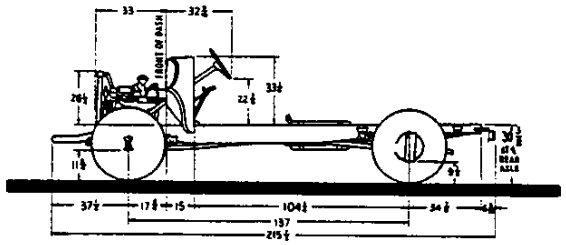
LOADMASTER SERIES CHASSIS DIMENSIONS

4102 1-1/2 TON FLAT FACE COWL CHASSIS



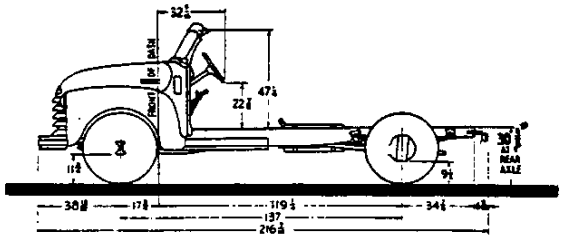
*-Loaded height with 7.00-20-8 pr tires

4122 1-1/2 TON FLAT FACE COWL STRIPPED CHASSIS



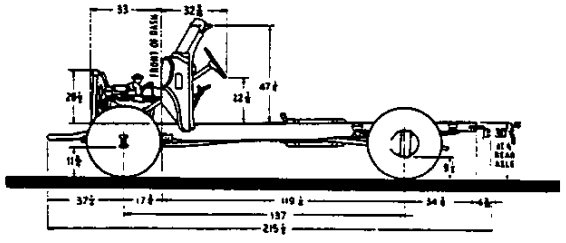
*-Loaded height with 7.00-20-8 pr tires

4112 1-1/2 TON WINDSHIELD COWL CHASSIS



*-Loaded height with 7.00-20-8 pr tires

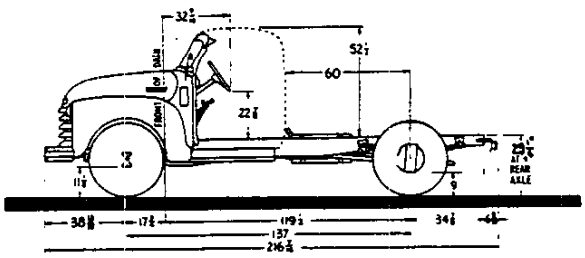
4132 1-1/2 TON WINDSHIELD COWL STRIPPED CHASSIS



*-Loaded height with 7.00-20-8 pr tires

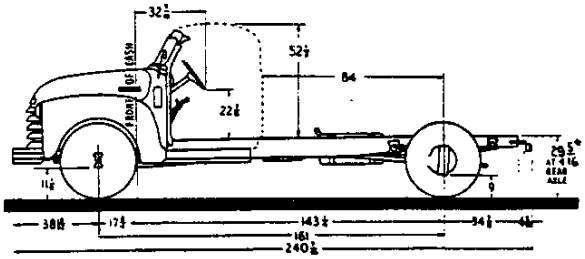
CONTINUED

4103 1-1/2 TON CAB CHASSIS



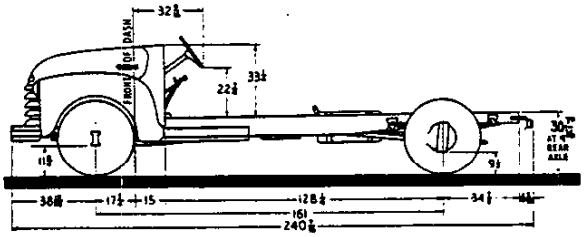
*-Loaded height with 6.50-20-6 pr dual tires

4403 1-1/2 TON CAB CHASSIS



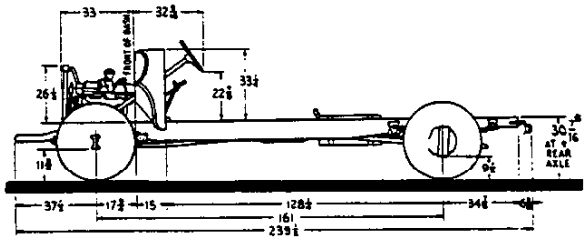
*-Loaded height with 6.50-20-6 pr dual tires

4402 1-1/2 TON FLAT FACE COWL CHASSIS



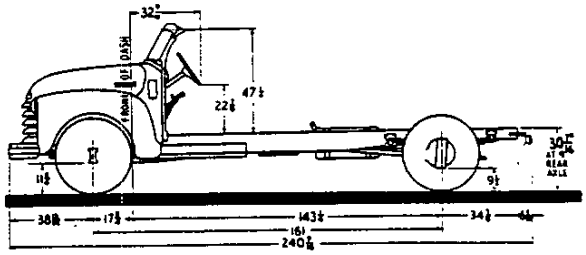
*-Loaded height with 7.00-20-8 pr tires

4422 1-1/2 TON FLAT FACE COWL STRIPPED CHASSIS



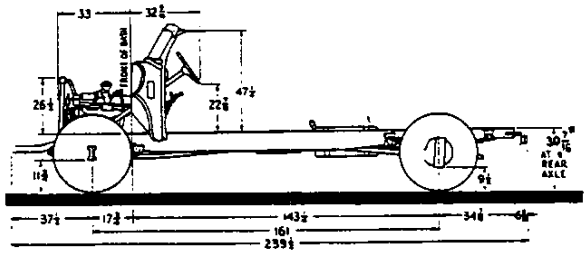
*-Loaded height with 7.00-20-8 pr tires

4412 1-1/2 TON WINDSHIELD COWL CHASSIS



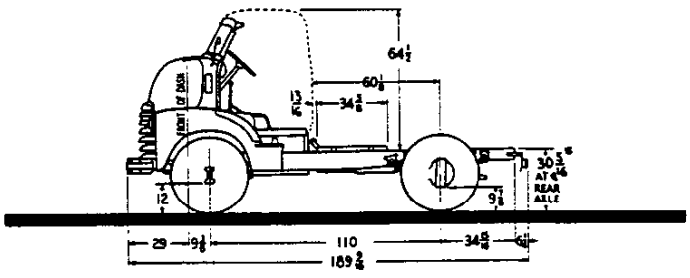
*-Loaded height with 7.00-20-8 pr tires

4432 1-1/2 TON WINDSHIELD COWL STRIPPED CHASSIS



*-Loaded height with 7.00-20-8 pr tires

5103S 1-1/2 TON SPECIAL AND 5103 2 TON COE CAB CHASSIS
5112S 1-1/2 TON SPECIAL AND 5112 2 TON COE WINDSHIELD COWL CHASSIS

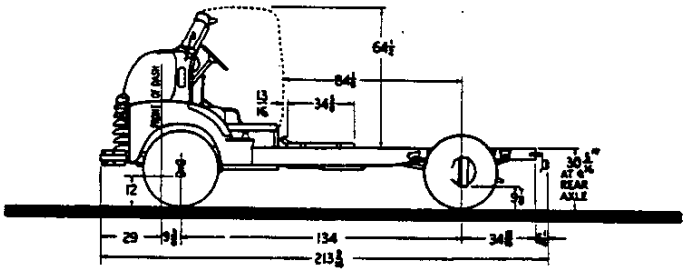


*-Loaded height with 7.50-20-8 pr dual tires

CONTINUED

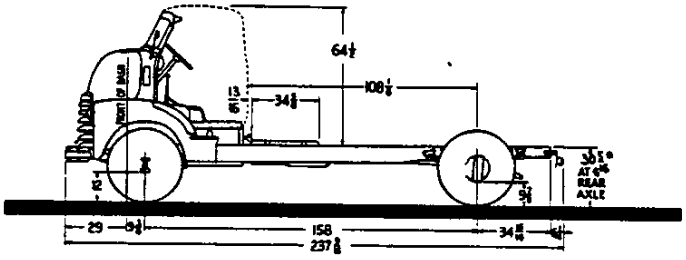
LOADMASTER SERIES CHASSIS DIMENSIONS—Continued

5403S 1-1/2 TON SPECIAL AND 5403 2 TON COE CAB CHASSIS
5412S 1-1/2 TON SPECIAL AND 5412 2 TON COE WINDSHIELD COWL CHASSIS



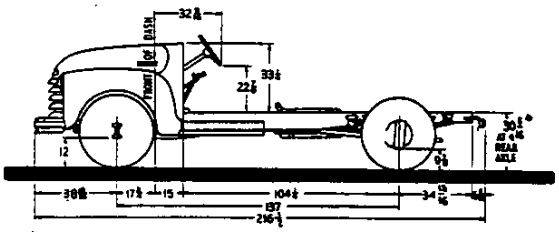
*-Loaded height with 7.50-20-8 pr dual tires

5703S 1-1/2 TON SPECIAL AND 5703 2 TON COE CAB CHASSIS
5712S 1-1/2 TON SPECIAL AND 5712 2 TON COE WINDSHIELD COWL CHASSIS



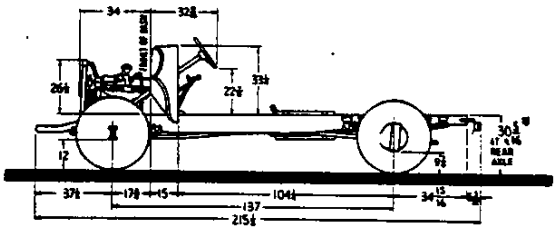
*-Loaded height with 7.50-20-8 pr dual tires

6102S 1-1/2 TON SPECIAL AND 6102 2 TON FLAT FACE COWL CHASSIS



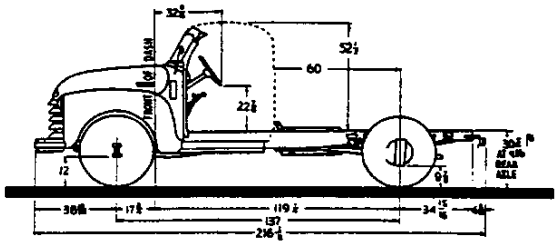
*-Loaded height with 7.50-20-8 pr dual tires

6122S 1-1/2 TON SPECIAL AND 6122 2 TON FLAT FACE COWL STRIPPED CHASSIS



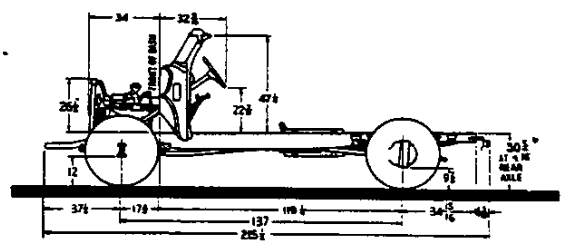
*-Loaded height with 7.50-20-8 pr dual tires

6103S 1-1/2 TON SPECIAL AND 6103 2 TON CAB CHASSIS
6112S 1-1/2 TON SPECIAL AND 6112 2 TON WINDSHIELD COWL CHASSIS



*-Loaded height with 7.50-20-8 pr dual tires

6132S 1-1/2 TON SPECIAL AND 6132 2 TON WINDSHIELD COWL STRIPPED CHASSIS

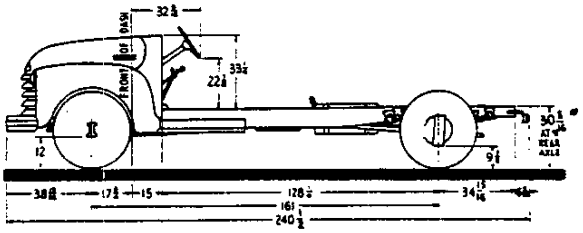


*-Loaded height with 7.50-20-8 pr dual tires

CONTINUED

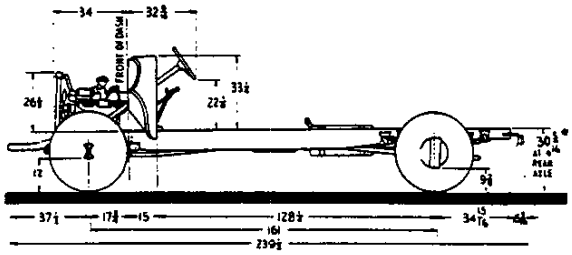
LOADMASTER SERIES CHASSIS DIMENSIONS—Continued

6402S 1-1/2 TON SPECIAL AND 6402 2 TON FLAT FACE COWL CHASSIS



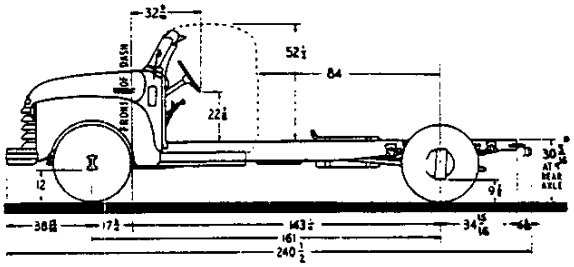
*-Loaded height with 7.50-20-8 pr dual tires

6422S 1-1/2 TON SPECIAL AND 6422 2 TON FLAT FACE COWL STRIPPED CHASSIS



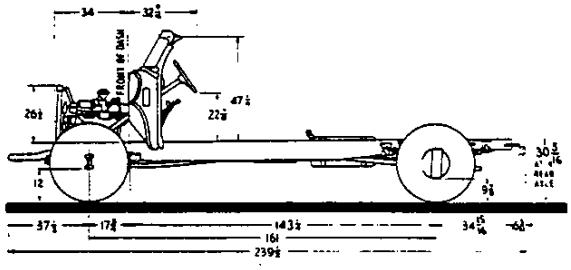
*-Loaded height with 7.50-20-8 pr dual tires

6403S 1-1/2 TON SPECIAL AND 6403 2 TON CAB CHASSIS
6412S 1-1/2 TON SPECIAL AND 6412 2 TON WINDSHIELD COWL CHASSIS



*-Loaded height with 7.50-20-8 pr dual tires

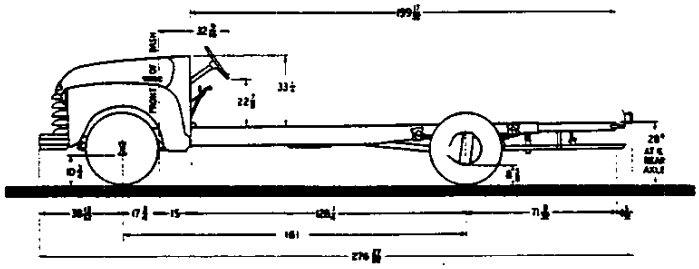
6432S 1-1/2 TON SPECIAL AND 6432 2 TON WINDSHIELD COWL STRIPPED CHASSIS



*-Loaded height with 7.50-20-8 pr dual tires

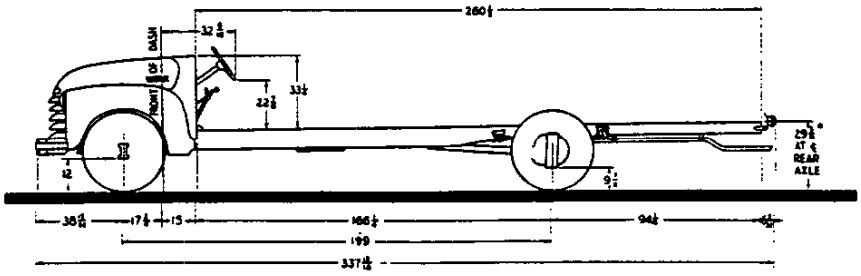
LOADMASTER SCHOOL BUS CHASSIS DIMENSIONS

4502 1-1/2 TON SCHOOL BUS FLAT FACE COWL CHASSIS



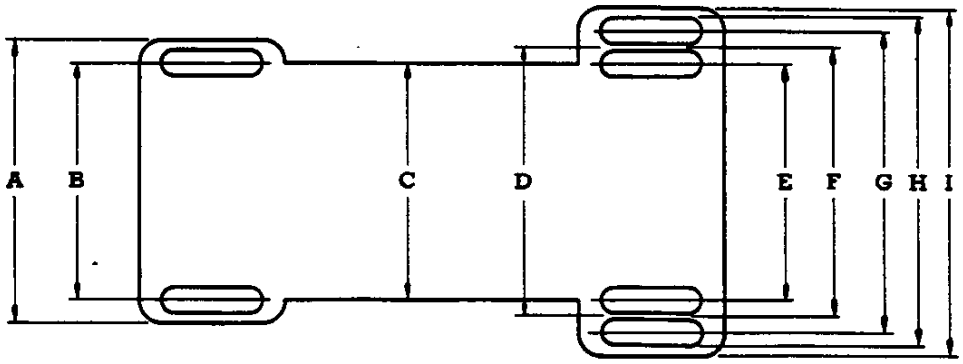
*-Loaded height with 6.50-20-6 pr dual tires

6702 2 TON SCHOOL BUS FLAT FACE COWL CHASSIS



*-Loaded height with 7.50-20-8 pr dual tires

CHASSIS TREADS AND OVERALL WIDTHS



TIRES	MODELS	A ACROSS FRONT FENDERS	B FRONT WHEEL TREAD	C ACROSS RUNNING BOARDS	D OVER WHEEL HUBS	E INNER WHEEL TREAD	F DUAL MEAN TREAD	G OUTER WHEEL TREAD	H OVER REAR TIRES	I OVER REAR FENDERS
6.00-16	1508	72-5/8	57-5/8	Concealed	68-3/4	60			66-1/4	72-3/4
6.70-15									66-7/8	
6.00-16	3100		56-9/16	73	69-3/4	61			67-1/4	74-7/16
6.50-16									67-13/16	
6.70-15									67-7/8	
15"			57-11/16		70-3/4	62-1/8			69-3/4	
7.00-17	3600		55-7/16		72-1/8	62-3/8			70	74-1/2 on 3604
7.50-17			56-1/4			61-3/4			69-5/16	
7.00-17	3800								69-3/4	
7.50-17									69-5/16	75-1/4, 3805-07;
7.00-18	3802-03-08-09-12-22-32		56-3/4		70-15/16	54-1/4	63-1/4	72-1/4	79-13/16	74-1/2,3804
6.50-20	4100-4400	74-7/8	56	74 (None on 4502)	77-1/4	56-1/2*	66*	75-1/2*	82-3/4	
7.00-20									83-1/16	
6.50-20	4502		60						82-3/4	
7.00-20									83-1/16	
7.50-20	4100-4400		55-3/4			56-1/4*		75-3/4*	84-3/16	
8.25-20	5000-5000S	77-9/16	60-1/4	77-3/8	79-5/8	57-3/4*	68-1/2*	79-1/4*	87-11/16	
7.50-20	6000	74-7/8	58-3/4	74 (None on 6702)					88-1/4	
8.25-20	6100S-6400S								87-11/16	
• 9.00-20	5000-5000S 6100-6400 6100S-6400S		58-1/2 θ	74	79-5/8	56-1/4	68-1/2	79-1/2*	88-1/4	
									89-1/4	

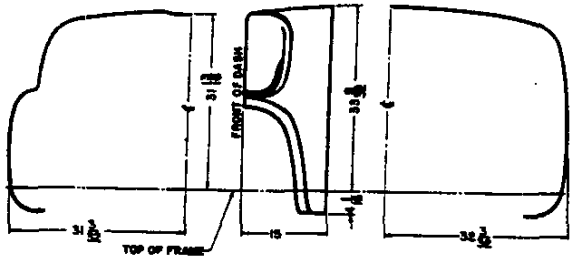
* - Treads are for vehicles equipped with forged hubs; add 1/2" when cast hubs are used.

θ - Front wheel tread when 6.00T wheels are used.

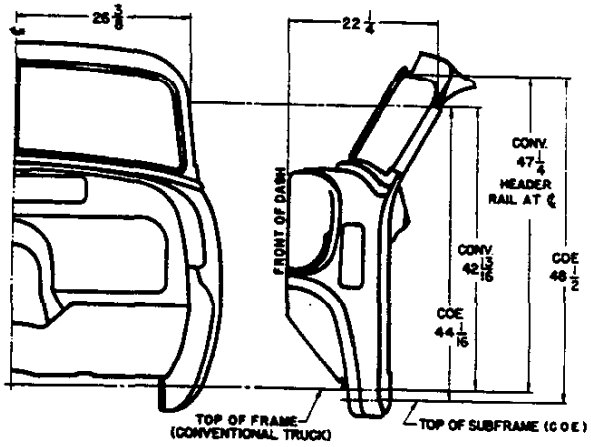
2-1-48. Revised: 8-30-48, • - 9.00-20 tire data added.

COWL DIMENSIONS

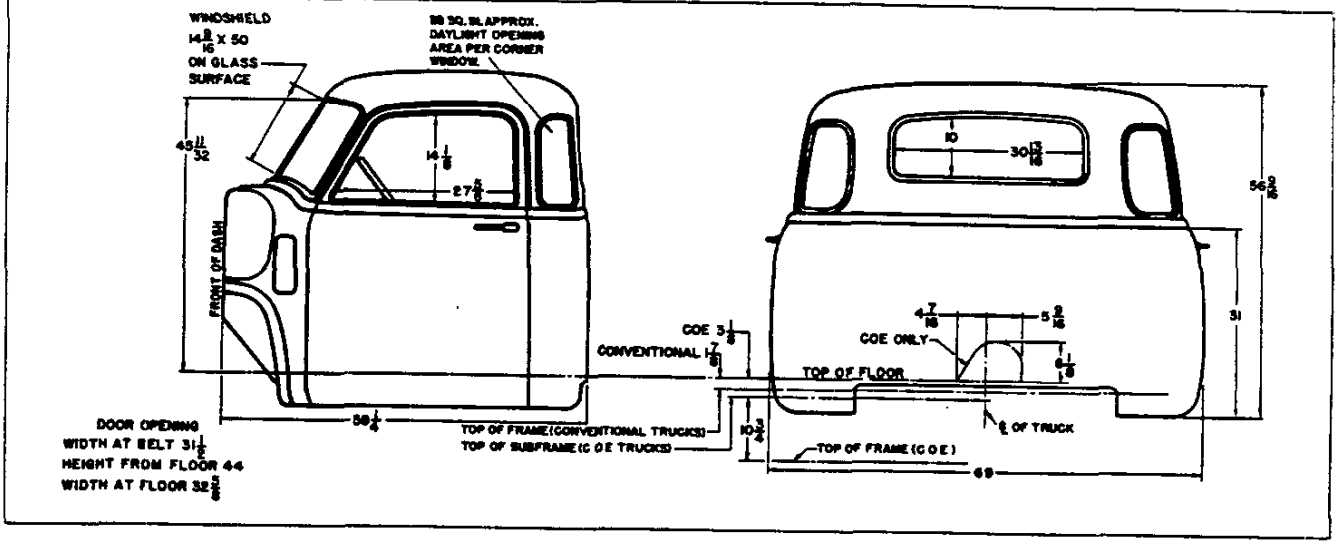
FLAT FACE COWL UNIT



COWL AND WINDSHIELD UNIT

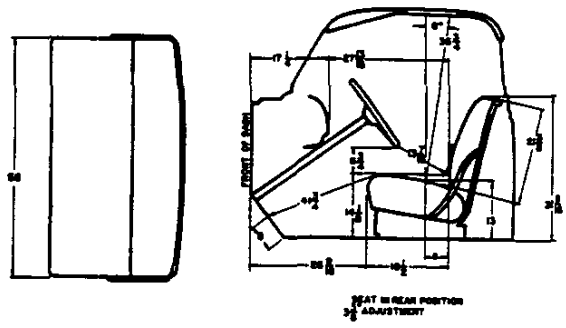


CAB EXTERIOR DIMENSIONS

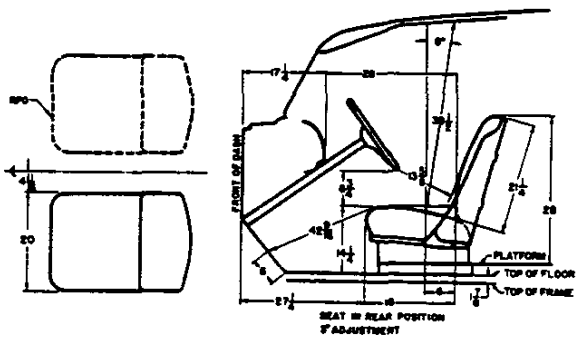


DRIVER COMPARTMENT AND SEAT DIMENSIONS

CAB

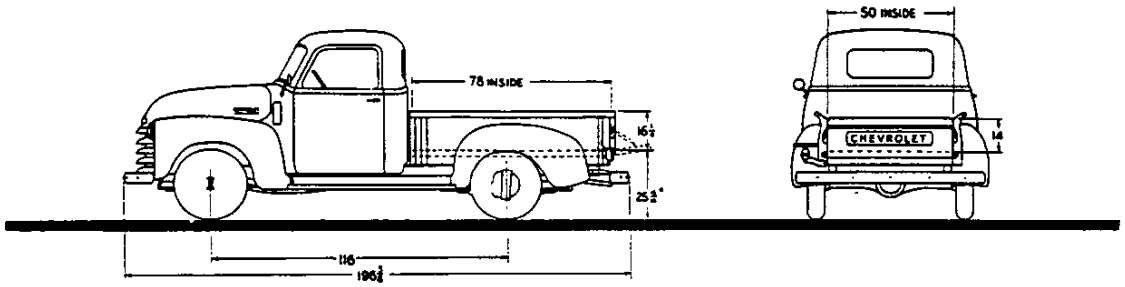


PANEL AND CANOPY EXPRESS



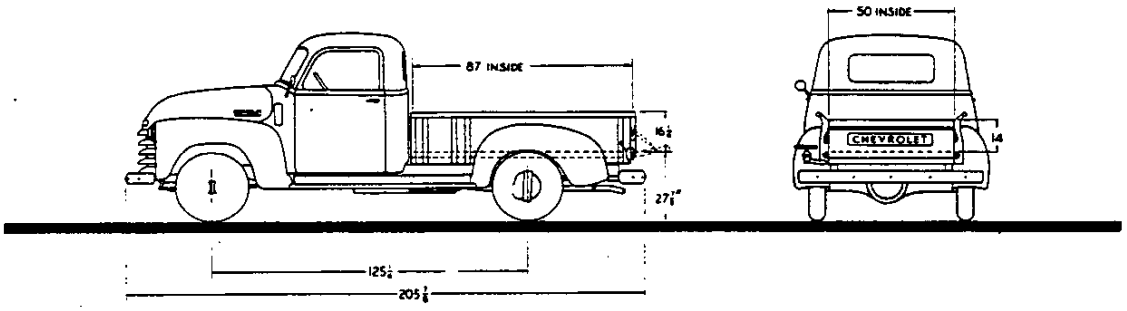
THRIFTMASTER SERIES BODY DIMENSIONS

3104 1/2 TON PICKUP TRUCK



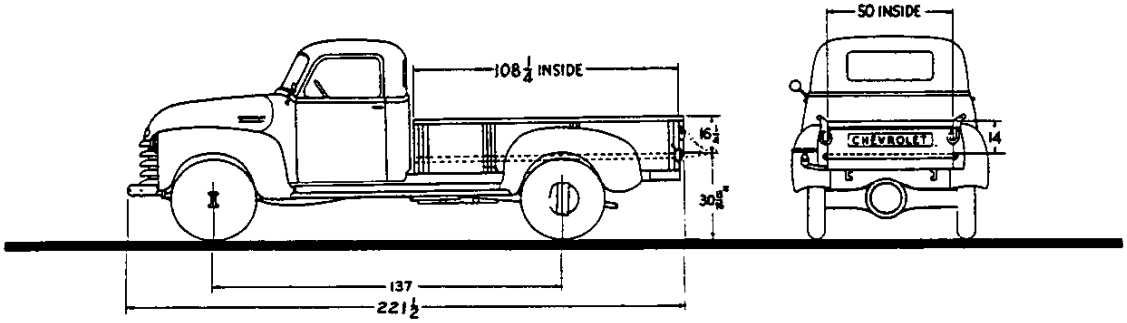
*-Loaded height with 6.00-16-6 pr tires

3604 3/4 TON PICKUP TRUCK



*-Loaded height with 15"-6 pr tires

3804 1 TON PICKUP TRUCK

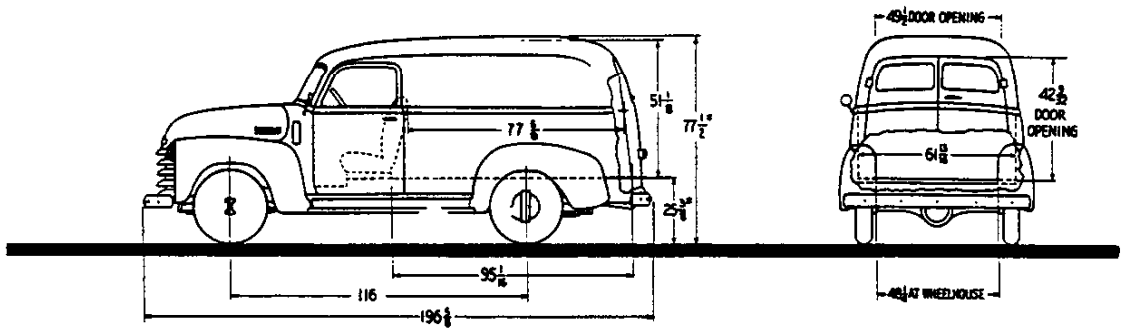


*-Loaded height with 7.00-17-6 pr tires

CONTINUED

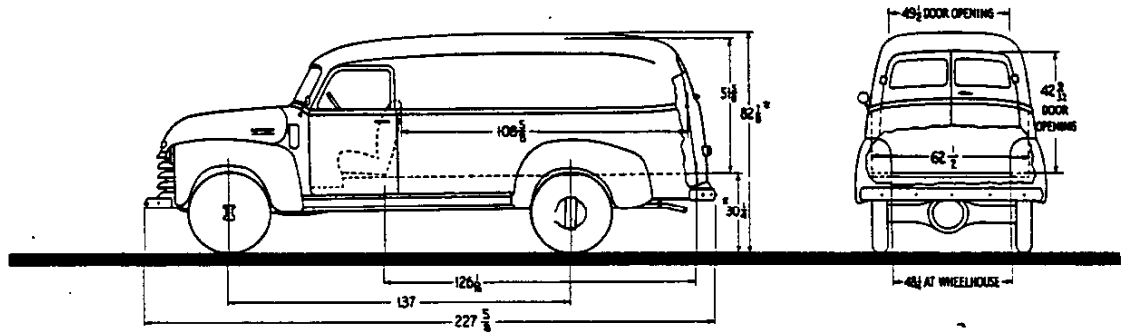
THRIFTMASTER SERIES BODY DIMENSIONS—Continued

3105 1/2 TON PANEL TRUCK



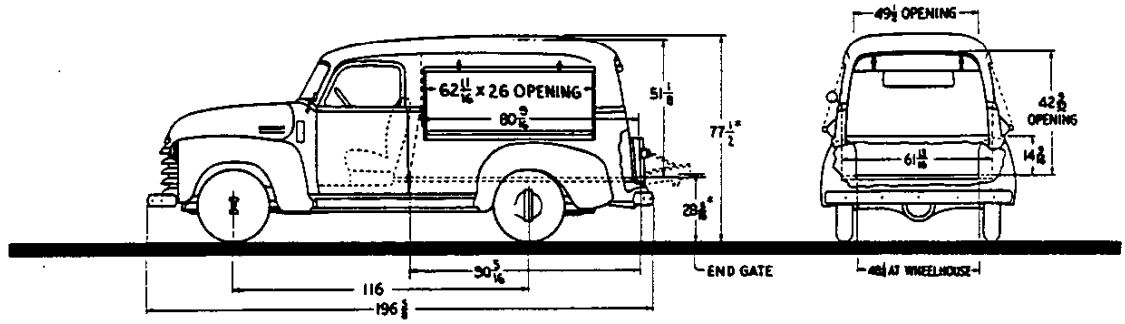
*-Loaded height with 6.00-16-6 pr tires SEAT IN FORWARD POSITION

3805 1 TON PANEL TRUCK



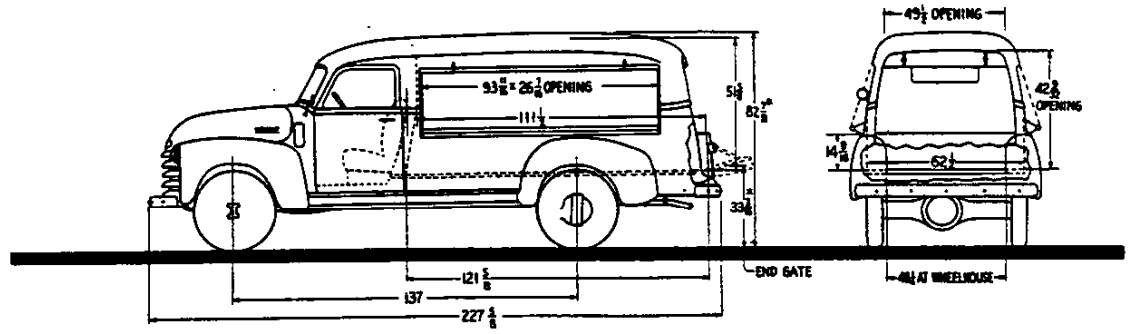
*-Loaded height with 7.00-17-6 pr tires SEAT IN FORWARD POSITION

3107 1/2 TON CANOPY EXPRESS TRUCK



*-Loaded height with 6.00-16-6 pr tires SEAT IN FORWARD POSITION

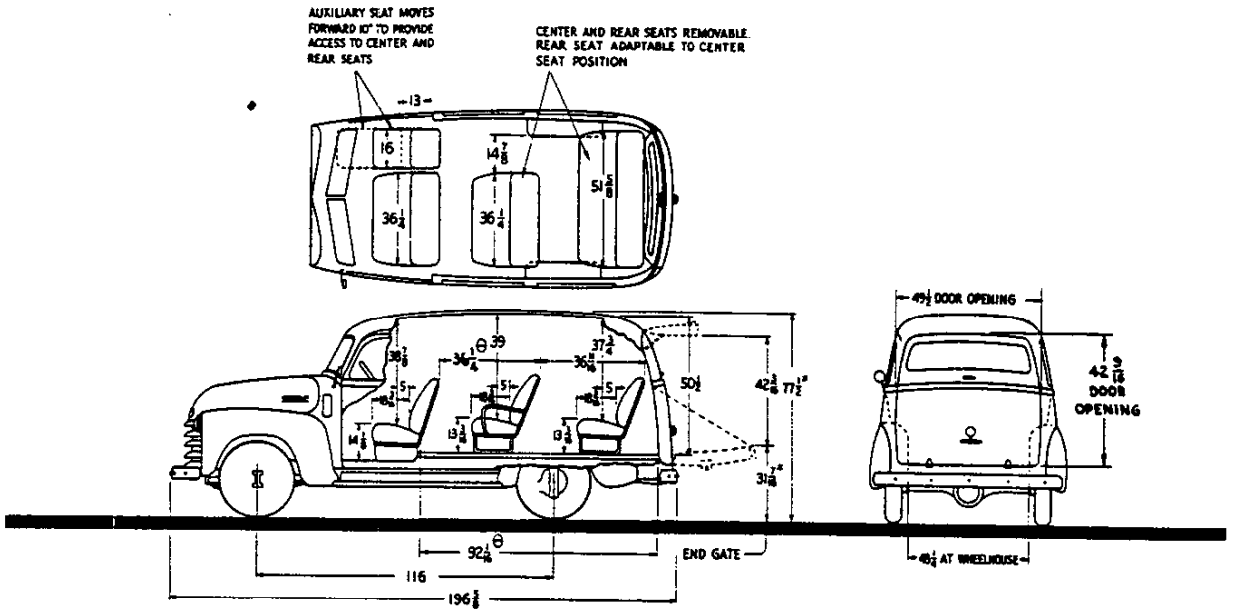
3807 1 TON CANOPY EXPRESS TRUCK



*-Loaded height with 7.00-17-6 pr tires SEAT IN FORWARD POSITION

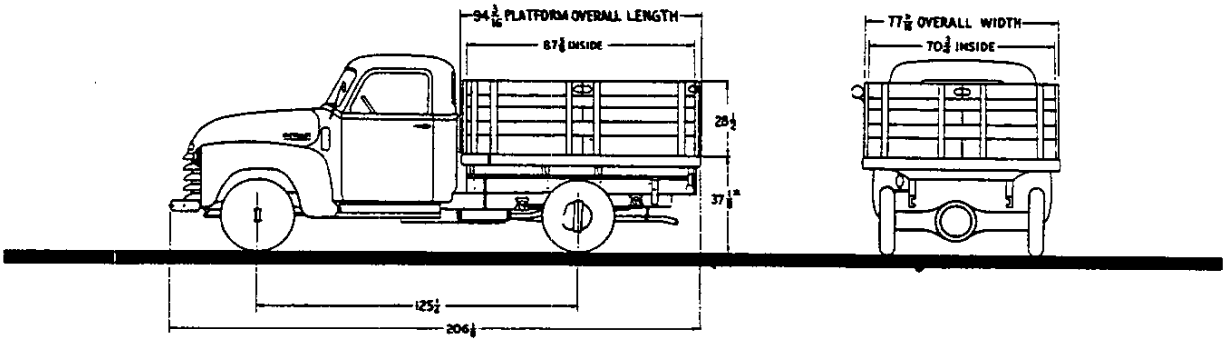
CONTINUED

3116 1/2 TON CARRYALL SUBURBAN



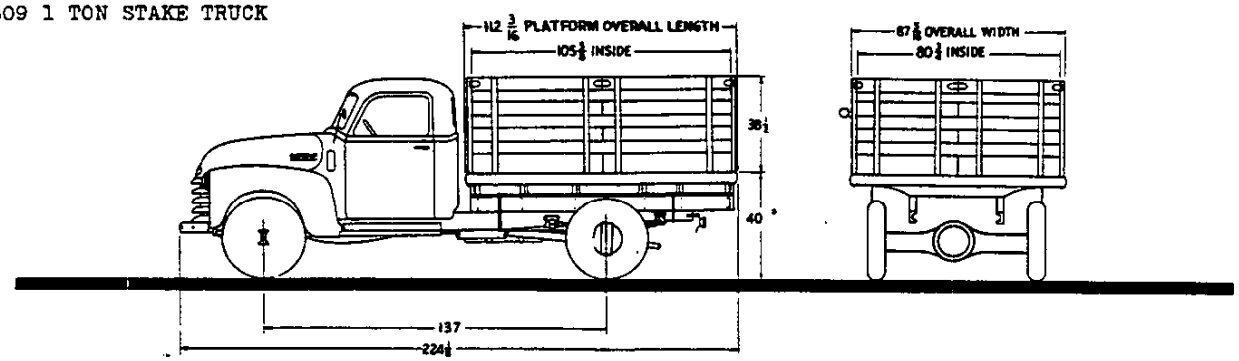
*-Loaded height with 6.00-16-6 pr tires
θ-Dimensions measured with front seat in rear position. Seat adjustment 3".

3608 3/4 TON PLATFORM TRUCK
3609 3/4 TON STAKE TRUCK



*-Loaded height with 15"-6 pr tires

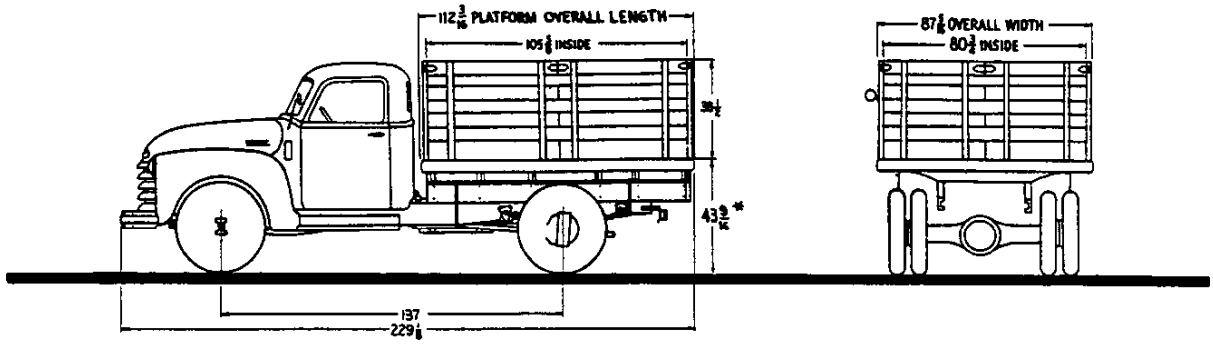
3808 1 TON PLATFORM TRUCK
3809 1 TON STAKE TRUCK



*-Loaded height with 7.00-17-6 pr tires

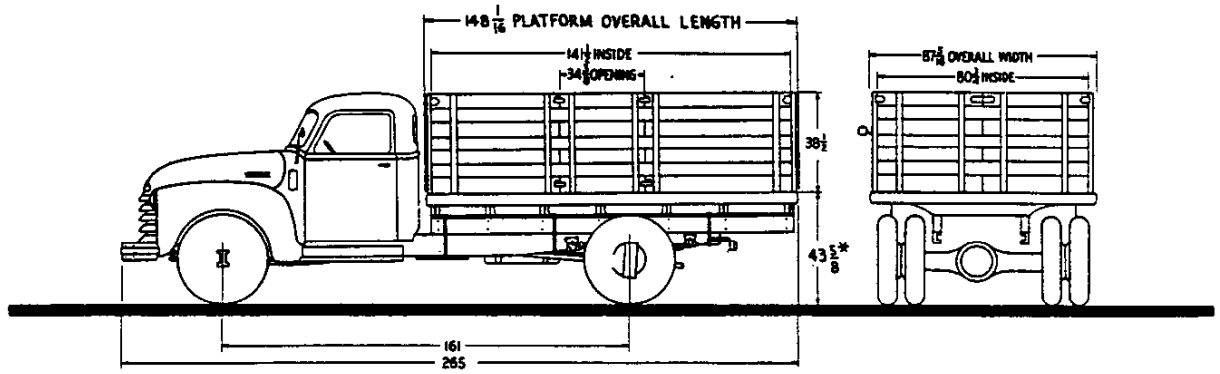
LOADMASTER SERIES BODY DIMENSIONS

4108 1-1/2 TON PLATFORM TRUCK
4109 1-1/2 TON STAKE TRUCK



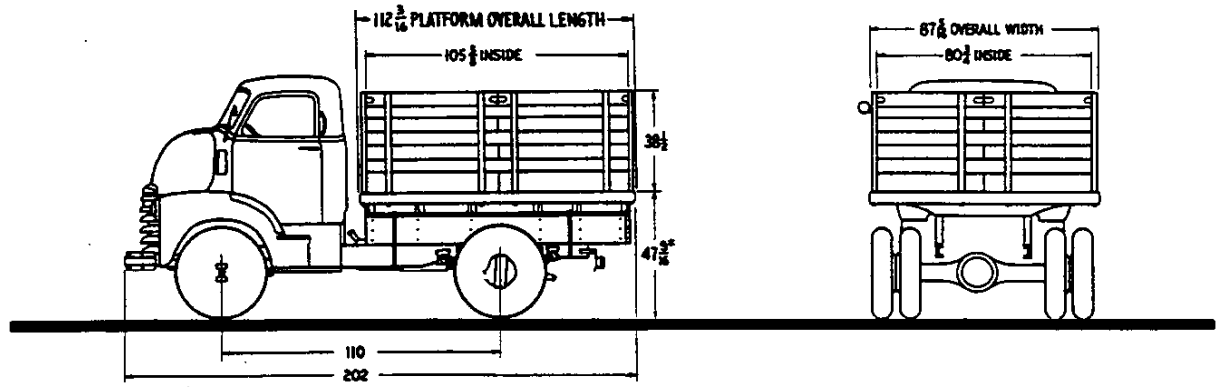
*-Loaded height with 6.50-20-6 pr dual tires

4408 1-1/2 TON PLATFORM TRUCK
4409 1-1/2 TON STAKE TRUCK



*-Loaded height with 6.50-20-6 pr dual tires

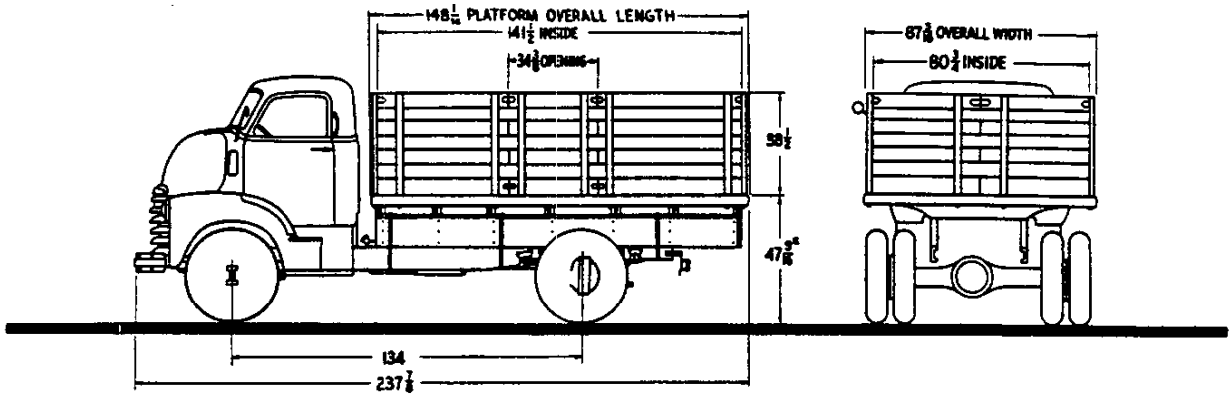
5108S 1-1/2 TON SPECIAL AND 5108 2 TON COE PLATFORM TRUCKS
5109S 1-1/2 TON SPECIAL AND 5109 2 TON COE STAKE TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

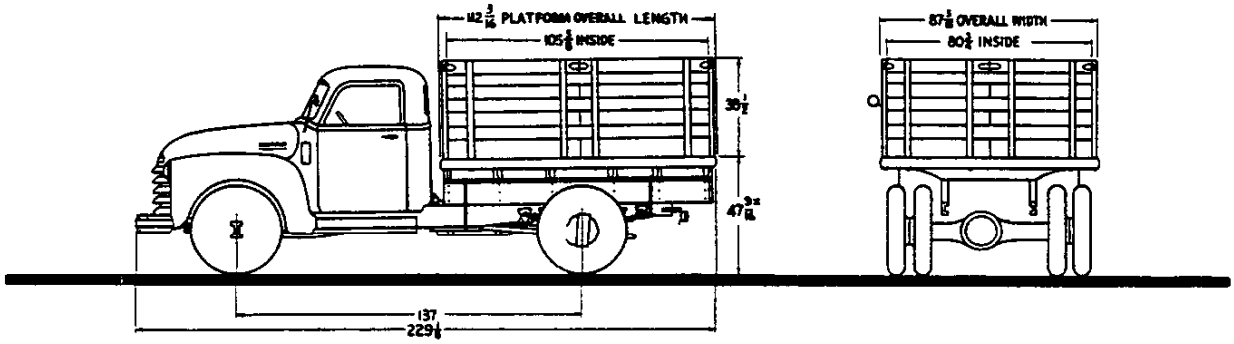
CONTINUED

5408S 1-1/2 TON SPECIAL AND 5408 2 TON COE PLATFORM TRUCKS
5409S 1-1/2 TON SPECIAL AND 5409 2 TON COE STAKE TRUCKS



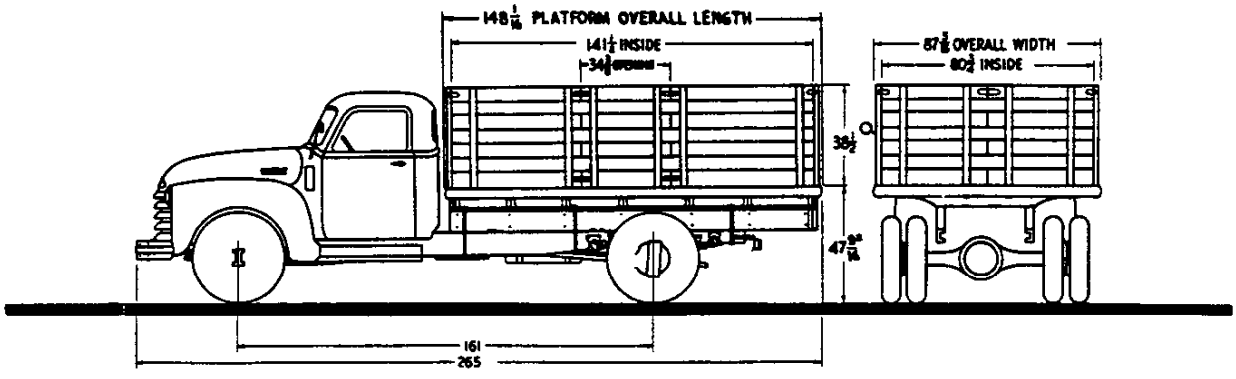
*-Loaded height with 7.50-20-8 pr dual tires

6108S 1-1/2 TON SPECIAL AND 6108 2 TON PLATFORM TRUCKS
6109S 1-1/2 TON SPECIAL AND 6109 2 TON STAKE TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

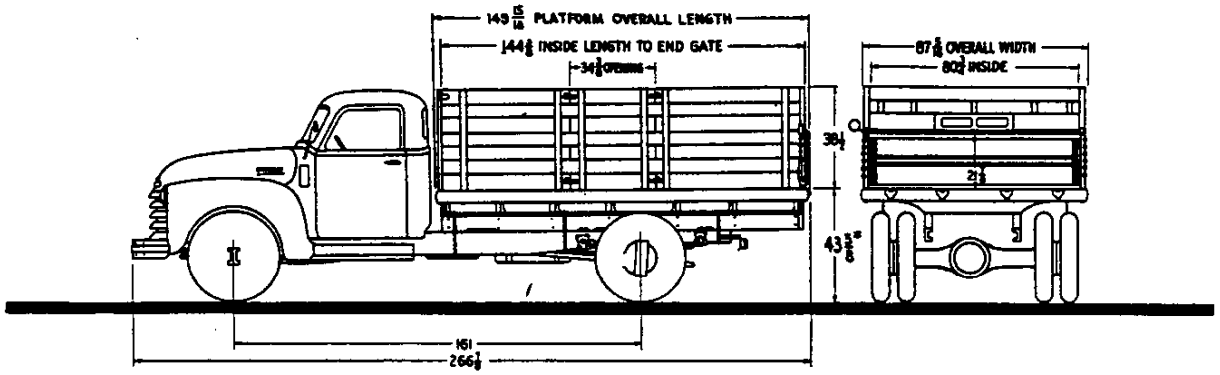
6408S 1-1/2 TON SPECIAL AND 6408 2 TON PLATFORM TRUCKS
6409S 1-1/2 TON SPECIAL AND 6409 2 TON STAKE TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

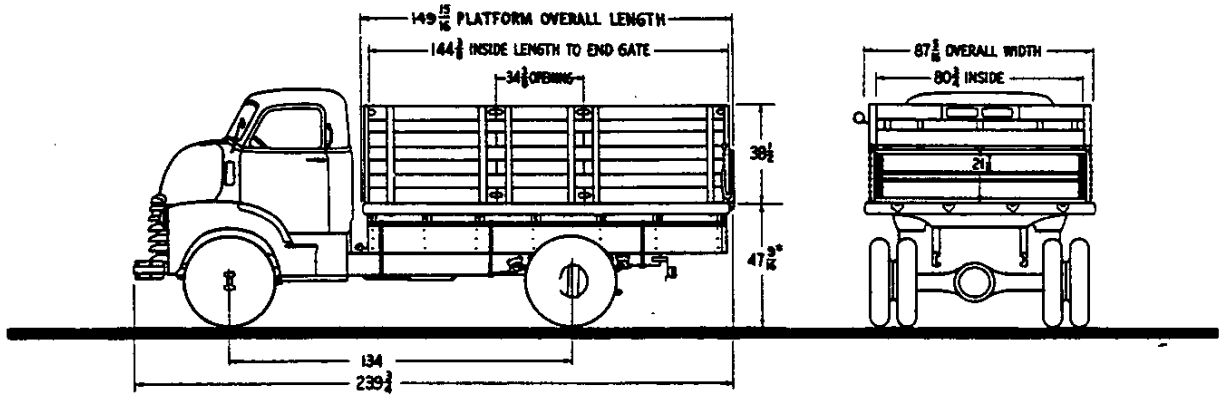
CONTINUED

4418 1-1/2 TON EXPRESS PLATFORM TRUCK
4429 1-1/2 TON EXPRESS STAKE TRUCK



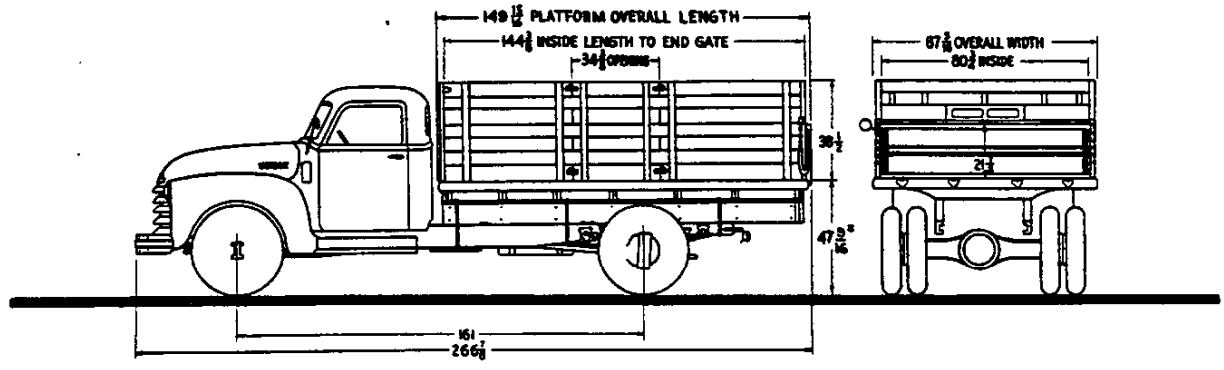
*-Loaded height with 6.50-20-6 pr dual tires

5418S 1-1/2 TON SPECIAL AND 5418 2 TON COE EXPRESS PLATFORM TRUCKS
5429S 1-1/2 TON SPECIAL AND 5429 2 TON COE EXPRESS STAKE TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

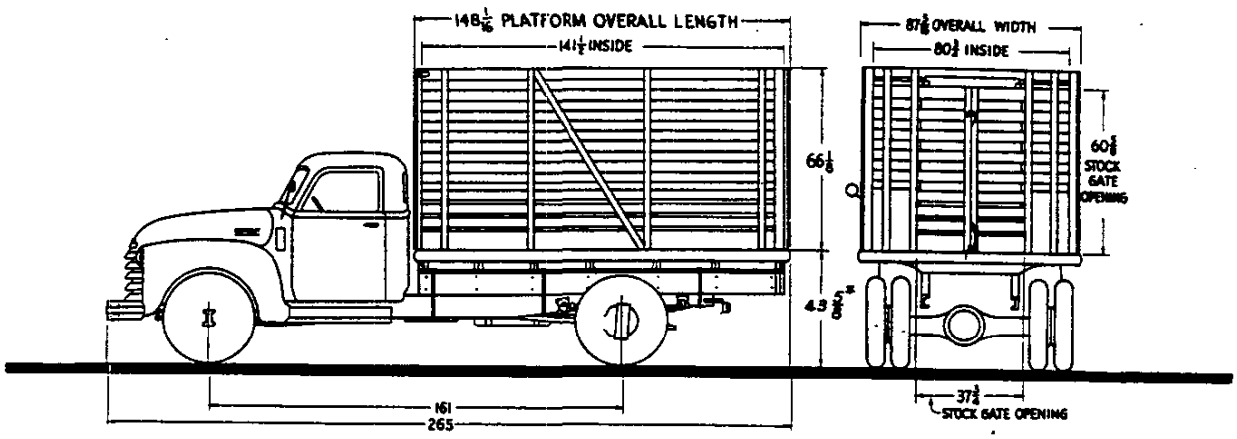
6418S 1-1/2 TON SPECIAL AND 6418 2 TON EXPRESS PLATFORM TRUCKS
6429S 1-1/2 TON SPECIAL AND 6429 2 TON EXPRESS STAKE TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

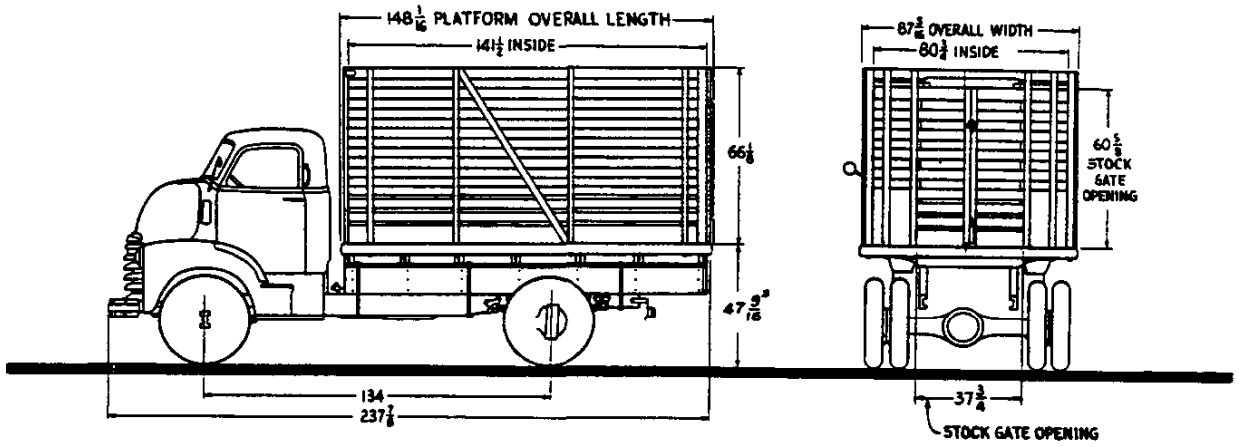
CONTINUED

4419 1-1/2 TON HIGH RACK (STOCK) TRUCK



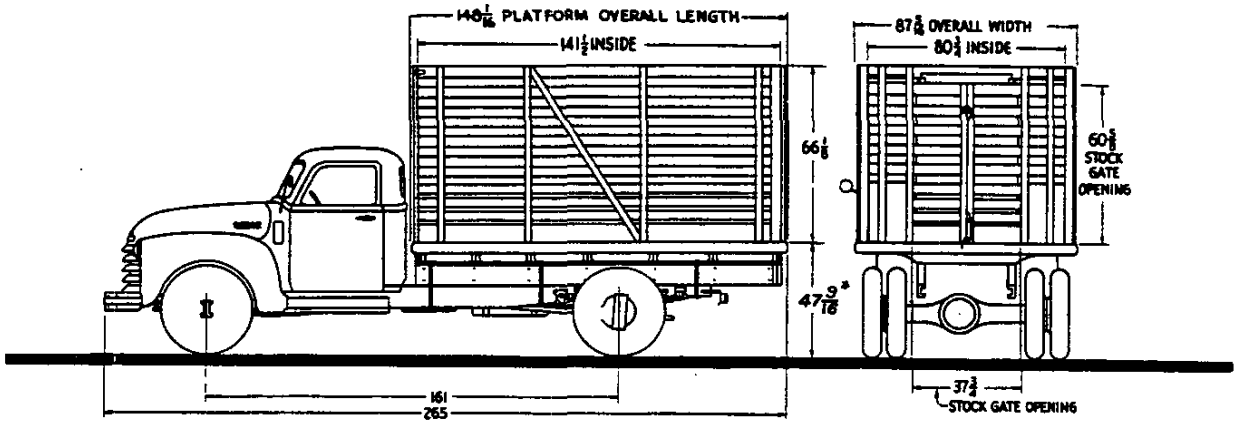
*-Loaded height with 6.50-20-6 pr dual tires

5419S 1-1/2 TON SPECIAL AND 5419 2 TON COE HIGH RACK (STOCK) TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

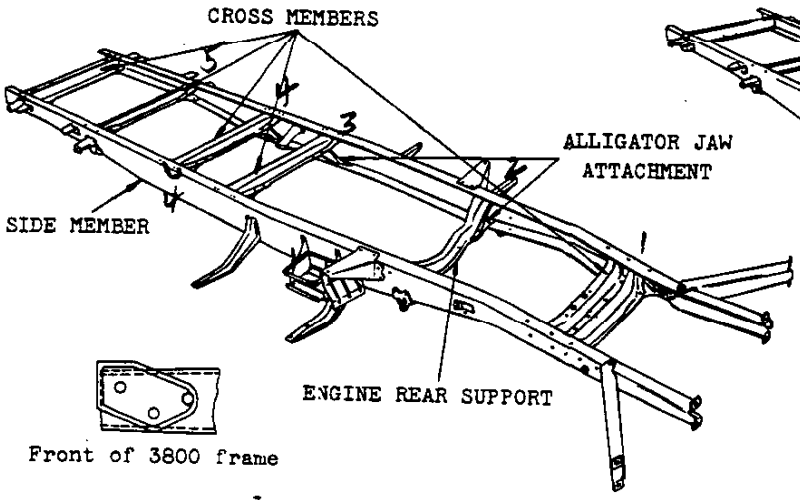
6419S 1-1/2 TON SPECIAL AND 6419 2 TON HIGH RACK (STOCK) TRUCKS



*-Loaded height with 7.50-20-8 pr dual tires

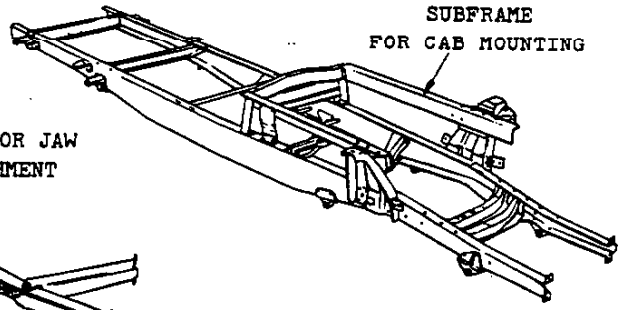
FRAME

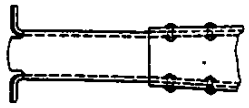
CONVENTIONAL TYPE OF FRAME



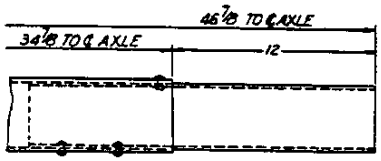
Front of 3800 frame

CAB-OVER-ENGINE TYPE OF FRAME

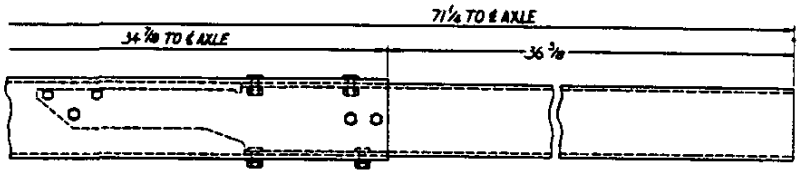




Front of 4100 frame showing extension



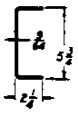
Frame rear extension on 3800 except 3808-09



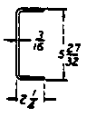
Frame rear extension on 4502

MODEL		Wheelbase	Frame overall length*	Width over side members	Number of cross members◫	Section modulus≡
CONVENTIONAL	3100	116	173-1/8	46-1/32 at rear	5	2.46
	3600	125-1/4	182-5/16	36		3.25
	3800	137	213 ⊖			5.52
	4100	137	209-7/16			
	4400	161	233-7/16		6	8.80
	6100ⓓ	137	209-7/16		5	
	6400	161	233-7/16		6	
SCHOOL BUS	4502	161	269-3/4		8	
	6702	199	330-3/4	36-1/16	9	9.60
COE	5100	110	182-7/16	36	5	8.80
	5400	134	206-7/16			
	5700	158	230-7/16		6	

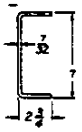
Frame type ---------- Ladder
Side member data:
Section type ---------- Channel
Rear kickup --- 4 on 3100; 1-3/4 on 3600
Material ---- Hot rolled steel, pickled
Yield point --------- 39000 PSI (min.)
Elongation --------- 25% in two inches
Maximum sectional dimensions:



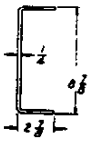
Series 3100



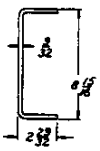
Series 3600



Series 3800 & 4100



Series 4400, 4500, 5000, 6100, 6400 ⓓ

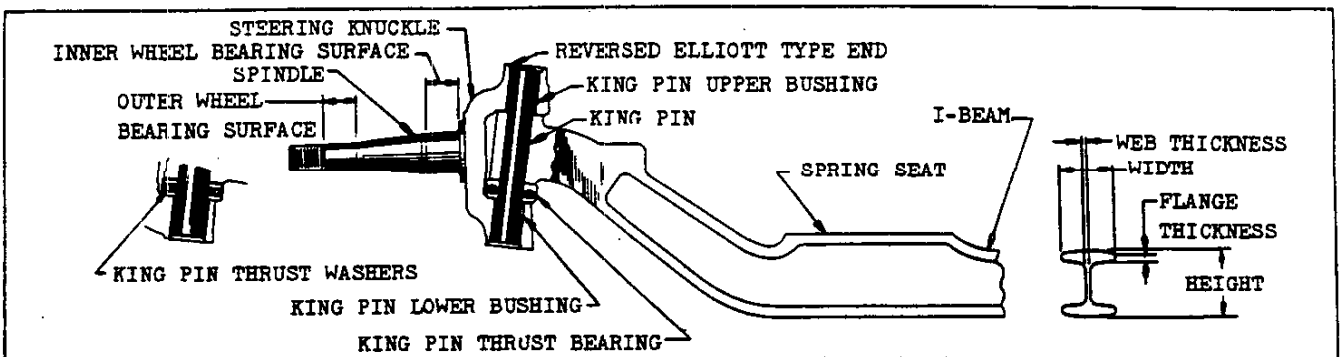


Model 6702

* - Length includes front or rear extensions when specified. ≡ - Inches cubed per side member.
⊖ - Except 3808-09 which are 201 (no frame extension). ⓓ - Used on 4100 with Heavy Duty Equipment.
◫ - Structural cross members-those which are so attached as to resist torsional frame stresses.

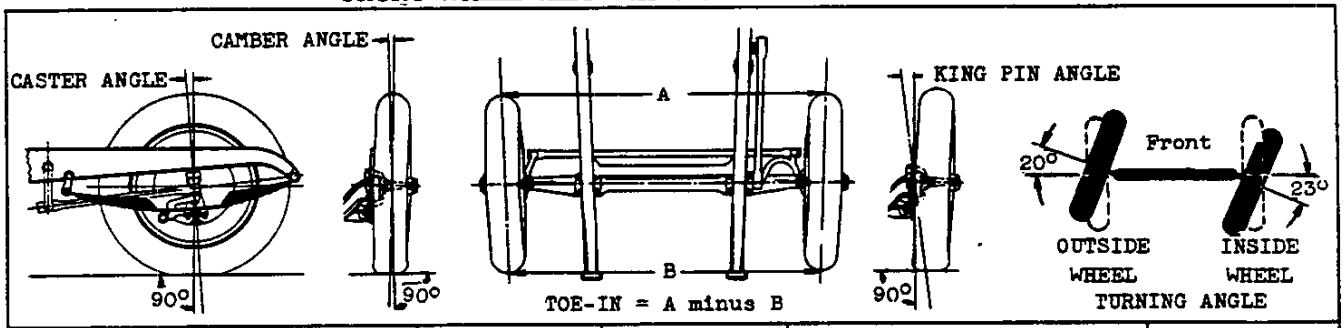
2-1-48

FRONT AXLE



ITEM			3100	3600	3800-4100-4400	4502-6000	5000
Type			Reversed Elliott (modified I-beam section)				
Rated capacity (pounds)			2200	2500	3500	4500	
I-beam average dimensions	Height		2-1/8		2-1/4	2-1/2	2-5/8
	Width		1-3/4		2		
	Flange thickness		1/4		5/16	7/16	
	Web thickness		1/4		11/32	1/4	3/8
	Section modulus		.70 in. cubed		1.14 in. cubed	1.48 in.cu.	1.61 in.cu.
King pin	Diameter		.8660-.8665		.9210-.9214	1.1090-1.1094	
	Bushing	Type	Floating		Pressed into steering knuckle		
		Length x I.D.	1-5/16 x .867-.869		1-17/64 x .922-.923	1-25/64 x 1.110-1.111	
King pin thrust bearing	Part number		373476		365309		
	Type		Ball			Copper & steel washers •	
	Inside diameter	Upper race	.868-.878		.9225-.9325	1.113-1.116	
		Lower race	.868-.893		.9225-.9475		
	Outside diameter		1-5/8		1-23/32	2-1/16	
	Width		.5575-.5675		.620-.630		
Front wheel bearings	Part number and type	Inner	N.D. 909052, cup & cone		N.D. 909026, cup & cone	Hy. 173241, barrel roller	
		Outer	N.D. 909001, cup & cone		N.D. 909025, cup & cone	Hy.173238,barrel roller x	
	Inside diameter	Inner	1.2810-1.2815		1.4060-1.4065	1.5625-1.5630	
		Outer	.7498-.7503		.8435-.8440	.9375-.9380	
	Outside diameter	Inner	2.9625-2.9635		3.1491-3.1501	3.1250-3.1256	
		Outer	2.0795-2.0805		2.2495-2.2505	2.3437-2.3443	
	Width	Inner	1.135 - 1.155		1.216 - 1.236	1.230	
		Outer	.698-.718		.780-.800	.800	
Spindle diameter	At inner bearing		1.2801-1.2806		1.4051-1.4056	1.5618-1.5623	
	At outer bearing		.7490-.7495		.8427-.8432	.9368-.9373	

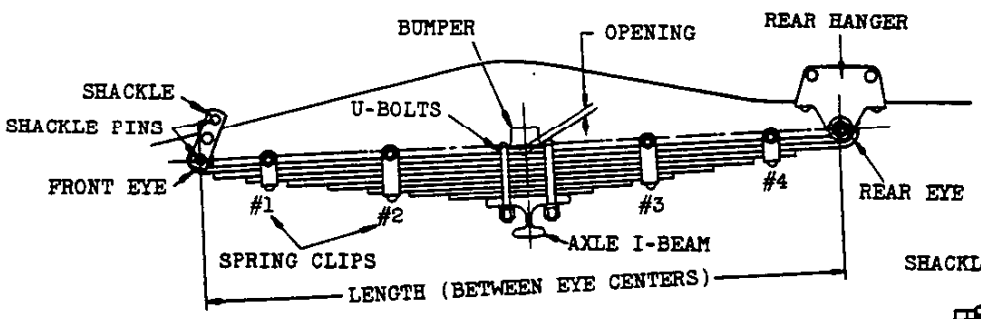
FRONT WHEEL ALIGNMENT (SERVICE DIMENSIONS)



ITEM		3100	3600	3800-4000-6000	5000
King pin angle		6° 10'-8° 10'			
Camber		0° 30'-1° 30'			
Caster at design load		1° 15'-2° 15'	2°-3°	2° 15'-3° 15'	2° 30'-3° 30'
Toe-in		1/16 to 3/16		1/16 to 1/4	
Turning angle	Outside wheel	20°			
	Inside wheel	21°-25°			

2-1-48. Revised: 11-15-48, • - Was Bronze & steel washers, x - Part number corrected.

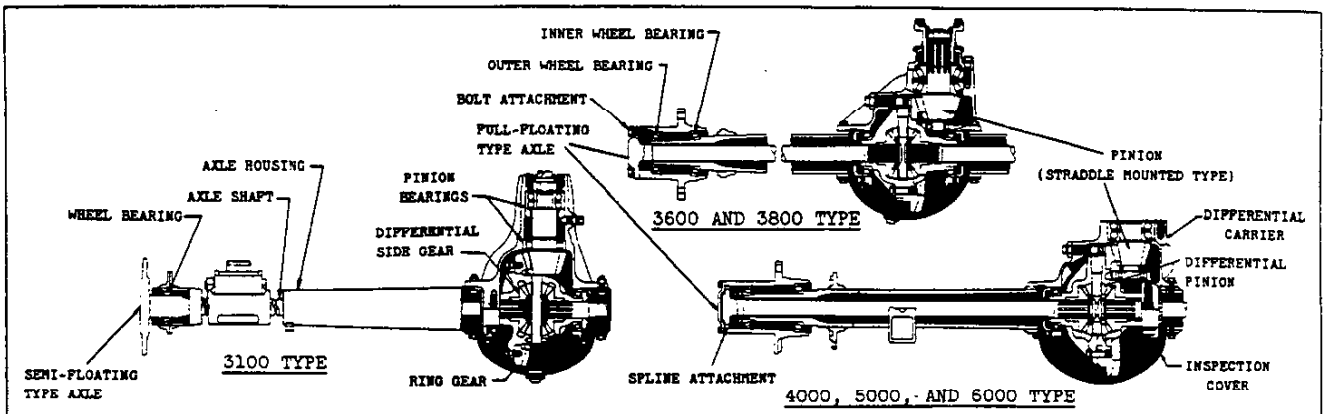
FRONT SUSPENSION



ITEM				3100	3600	3800	4100-4400	4502	6000	5000
Springs	Type			Semi-elliptic	Semi-elliptic, two-stage	Semi-elliptic				
	Leaves	Material		Chrome carbon steel						
		Number		8	8(5 & 3)	7		9		
		Thickness (Leaves numbered from top to bottom.)	#1	.237		.291				
			#2							
			#3							
			#4							
			#5							
			#6							
			#7							
			#8							
			#9							
			Total	1.896	2.058	2.037		2.619		
	Load in pounds at opening height			750 to 825 @ 13/32	760 to 850 @ 15/32	950 to 1050 @ 1-11/32		1475 to 1625 @ 3/4		
	Average rate of deflection (pounds per inch)			315	275 @ 350-650 lb.; 390 @ 850-1150 lb.●	475		640		
	Capacity at ground (pounds)			970	1000	1575		2000		2050
	Length x width			38 x 1-3/4		40 x 2				
	Spring clip type (See figure.)		#1	Clinch		Bolt				
			#2							
			#3	Clinch	Bolt					
			#4	Clinch		Bolt				
Spring mountings	Shackle end	Located at		Front						Rear
		Type		Threaded "H"						
		Pin dia.		5/8						
	Fixed end	Bushing		Plain 7/8 O.D.						
		Bolt size		11/16 OD x 3-3/16 Hardened stl.		11/16 O.D. x 3-7/16 Hardened steel				
	U-bolt diameter			1/2	9/16					5/8
	Bumper			Rubber, mounted on top of spring main leaf at center bolt						
	Spring mounting angle			7°-50' included angle						
	Spring center-to-center			26-13/16 (measured on axle I-beam)						
Shock absorbers	Hydraulic	Single acting		Regular equipment						
		Double acting		RPO 200						
	Valve code number	Bumper		RPO 200, G2						
		Rebound		Regular, 4F; RPO 200, 2R x		RPO 200, 2R				
	Piston diameter			1-1/2						
Ride stabilizer				On models 3102-05-12-16-22-32 only. Bolted to front spring.						

2-1-48. Revised: 11-15-48, ● - Was 365 @ 850-1150 lb., x - Valve code number 4F was 4CG.

REAR AXLE



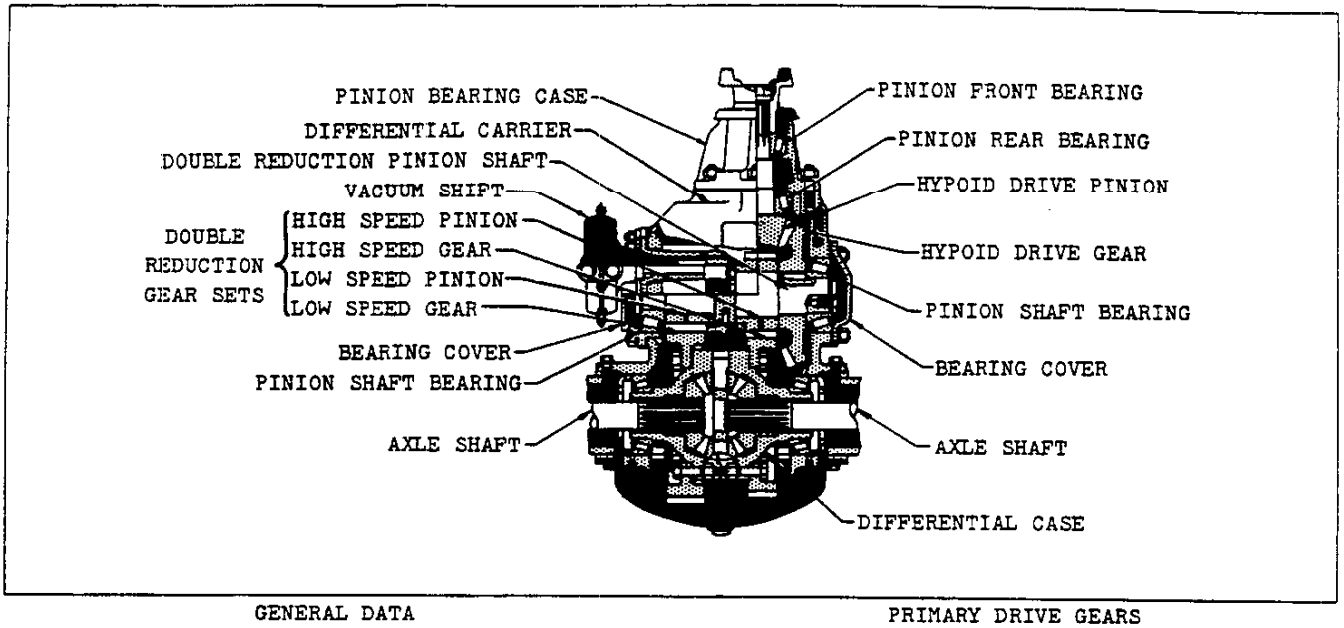
ITEM			3100		3600		3800	4000		5000	6000
			REGULAR					RPO 204A	REGULAR		
Type			Semi-floating		Full-floating						
Rating (pounds)			3300		5000		7200	10500		13000	
Housing type			Pressed steel banjo. Two piece welded.		Banjo. Welded or seamless steel tube.						
Final gears	Type		Spiral Hypoid								
	Ratio		4.11:1		4.57:1		5.14:1	5.43:1	6.17:1		
	Teeth		37 & 9		32 & 7		36 & 7	38 & 7	37 & 6		
Gear backlash			.005-.008								
Pinion	Mounting		Overhung		Straddle						
	Adjustment		Shims & tapered collar		Shims			None			
	Thrust		Against pinion front bearing								
Total gear reduction (axle ratio x transmission ratio)	Transmission		3-speed	4-speed	3-speed	4-speed	4-speed	4-speed			
	First		12.08	29.02	13.44	32.26	36.29	38.34	43.56		
	Second		6.90	14.71	7.68	16.36	18.40	19.44	22.09		
	Third			7.03		7.81	8.79	9.29	10.55		
	Direct		4.11	4.11	4.57	4.57	5.14	5.43	6.17		
	Reverse		12.08	27.87	13.44	30.98	34.85	36.82	41.83		
Axle shaft torque (ft.lb.)*	First		1725	26560	1919	4607	5182	5475	6220	6627	6739
	Second		985	2101	1097	2336	2628	2776	3154	3361	3417
	Third			1004		1115	1255	1327	1507	1605	1632
	Direct drive		621		691		777	821	933	994	1011
	Reverse		1725	26560	1919	4424	4977	5258	5973	6364	6471
Lubricant capacity			4-1/2 pints		6 pints			11 pints	12 pints		
Pinion bearing	Part number and type	Front	N.D. 954394 D.R. Ball		Hy. 213538 D.R. Tapered Roller			N.D. 954237 D.R. Ball			
		Rear	Hy. 125630 Roller		Hy. 189436 Roller			Hy. 144553 Roller			
	Inside diameter	Front	1.1807-1.1811		1.9675-1.9680			1.9680-1.9685			
		Rear	1.8270-1.8275		.9839-.9843			1.1807-1.1811			
	Outside diameter	Front	2.8341-2.8346		4.3302-4.3310			4.3301-4.3307			
		Rear	3.1246-3.1250		2.0467-2.0472			2.8341-2.8346			
	Width	Front	1.1825-1.1875		2.500			1.8710-1.8755			
		Rear	.748		.8075-.8125			.8218-.8268			
Differential type			Two pinion		Four pinion						
Differential bearings	Part number & type		Hy. 187434 Barrel Roller		Hy. 188930 Barrel Roller			Hy. 148399 Barrel Roller			
	Inside diameter		1.7807-1.7812		2.2650-2.2655			2.4400-2.4405			
	Outside diameter		3.1490-3.1496		3.8750-3.8758			3.9362-3.9370			
	Width		.712		.8268			.826			
Axle shaft	Type		Shaft & drive flange integrally forged. Bolt attachment.					Same. Spline attachment.			
	Minimum diameter		1-5/32		1-11/32			1-7/16	1-9/16		
Drive torque			Through torque tube		Through springs						
Rear wheel bearings	Part number and type	Inner			Hy. 188930 Barrel Roller			Hy. 144527 Barrel Roller			
		Outer	Hy. 111121 Roller		Hy. 188932 Barrel Roller			Hy. 144525 Barrel Roller			
	Inside diameter	Inner			2.2650-2.2655			2.6250-2.6258			
		Outer	1.8772-1.8779		2.0312-2.0317			2.2500-2.2505			
	Outside diameter	Inner			3.8750-3.8758			4.4680-4.4688			
		Outer	2.7812-2.7818		3.5425-3.5433			3.8750-3.8758			
	Width	Inner			.8268			.931			
		Outer	.867-.875		.781			.8268			

* - Gear reduction x engine maximum net torque x efficiency factor (.90 in direct drive, .85 all others).

Θ - Maximum capacity of shafts.

2-1-48

TWO-SPEED REAR AXLE (RPO 202 FOR ALL 5000-6000 MODELS)



GENERAL DATA

Type ---------- Double reduction, full-floating
Rating (pounds) ---------- 13000
Final gear ratios ------ 6.13:1 high; 8.10:1 low
Drive torque ---------- Through springs
Housing --- Banjo, one piece seamless steel tube
Axle shafts:
Material ---------- Forged steel
Type ---------- Shaft and drive flange integrally forged. Spline attachment.
Minimum diameter ---------- 1-9/16

Vacuum shift control ------- On instrument panel

PRIMARY DRIVE GEARS

Type and ratio ---------- Hypoid, 2.875:1 ratio
Pinion ---------- 8 teeth, overhung mounting
Drive gear ---------- 23 teeth, straddle mounted
Backlash adjustment ---------- .008 to .013, -by shims at double reduction pinion shaft cover

DOUBLE REDUCTION GEARS

Type ---------- Helical spur
Ratio-high speed --------- 2.133:1 (32-15 teeth)
Ratio-low speed ---------- 2.818:1 (31-11 teeth)

Lubricant capacity, refill (pints) ------ 14-1/2

TRANSMISSION		TOTAL GEAR REDUCTIONS* 5000-6000		MAXIMUM AXLE SHAFT TORQUE (FT.LB.)θ			
				5000		6000	
Gear	Ratio	6.13:1 ratio	8.10:1 ratio	6.13:1 ratio	8.10:1 ratio	6.13:1 ratio	8.10:1 ratio
First	7.06	43.28	57.19	6586	8701	6695	8847
Second	3.58	21.95	29.00	3340	4412	3396	4486
Third	1.71	10.48	13.85	1595	2117	1621	2143
Direct drive	1.00	6.13	8.10	988	1305	1004	1327
Reverse	6.78	41.56	54.92	6323	8356	6429	8496

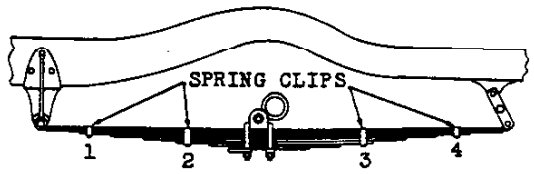
* - Rear axle ratio x transmission ratio.
θ - Total gear reduction x engine max. net torque x efficiency factor (.90 direct drive; .85 all others).

BEARINGS

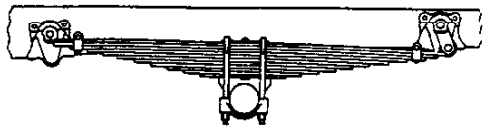
ITEM			Method of Adjustment	Part number	Quantity	Type	Inside diameter	Outside diameter	Width
Hypoid drive pinion bearings	Front	Inner race & roller	Shims at rear of front bearing	147905	1	Tapered roller	1.500		1.1875
		Outer race		128248				3.375	
	Rear	Inner race & roller		189638			2.000		1.2500
		Outer race		189637				4.000	
Double reduction pinion shaft bearings	Left	Inner race & roller	Shims at cover	436041			1.625		1.4375
		Outer race		173105				4.125	
	Right	Inner race & roller		173106			2.000		
		Outer race		173105				4.125	
Differential bearings	Left, Right	Inner race & roller	Adj. nut and lock	435973	2		2.625		1.1875
		Outer race		135495				4.4375	
Wheel bearings			Same as for regular single speed axle (see page 79).						

REAR SUSPENSION

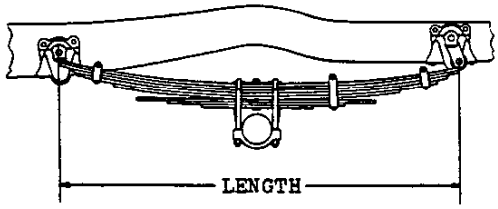
SEMI-ELLIPTIC TYPE



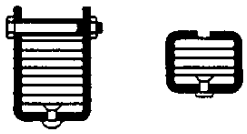
SEMI-ELLIPTIC, HEAVY DUTY TYPE



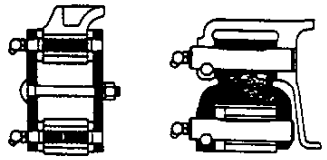
SEMI-ELLIPTIC, TWO-STAGE TYPE



SPRING CLIP TYPES



SPRING SHACKLE TYPES



Item			3100	3100 RPO	3600	3800	3800 RPO
Springs	Type		Semi-elliptic		Semi-elliptic, two stage		Semi-elliptic
	Leaves	Material	Chrome carbon steel				
		Number	8	9	7 (4 & 3)	8 (5 & 3) θ ●	11 * ●
		Thickness (Leaves numbered from top to bottom) #1,2,3,4	.291		.323		
		#5					
		#6, 7					
		#8					
		#9					
		#10, 11					
		total	2.328	2.619	2.133	2.424	3.553
	Load in pounds at opening height		1100 to 1200 @ 1/2	1300 to 1400 @ 1/2	1325 to 1475 @ 9/16	1575 to 1725 @ 1-29/32	2755 to 3045 @ 5/32
	Average deflection rate (pounds per inch)		190	220	250 @ 200-600#; 370 @ 1200-1600#	315 @ 250-750#; 435 @ 1400-1800#	690
	Capacity at ground (lb)		1530	1730	2000	2240	3400
	Length x width		54x1-3/4		46x2		
	Spring clip type (See figure)	Clinch	1-2-3-4				
		Bolt			1-3-4		
Spring mountings	Shackle end	Located at	Rear				
		Type	Threaded H		Clevis and plain bushings		
		Pin size	5/8-11		7/8 dia		
	Fixed end	Bushing	Plain 7/8 O D		1-1/8 O D		
		Pin size	11/16 O D (bolt)		7/8 O D		
	Spring to axle attachment		Two U-bolts and cap to rubber insulated seat		Two U-bolts and cap to fixed metal seat on axle housing		
	U-bolt diameter		1/2		5/8		
	Bumper		Rubber, mounted on frame side member lower flange				
	Mounting angle		7°50' included angle		Parallel		
	Spring center to center		42-5/16		41-1/2		
Shock absorbers	Single-act.	1.5 Piston	Regular				
	Dbl.-act.		RPO 200				
	Valve code number	Compression RPO	G2		GO		
		Rebound Reg	3F				
		Rebound RPO	2R		1R		

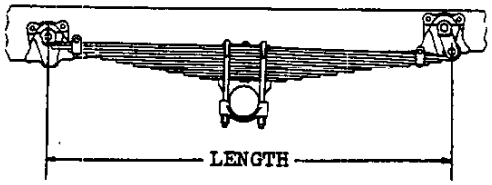
* - Spring used on 3802-03-08-09-12-22-32 models when RPO 295 tire equipment is specified.

θ - Spring also used on 3600 models when RPO 272, 277, or 278 tire equipment is specified.

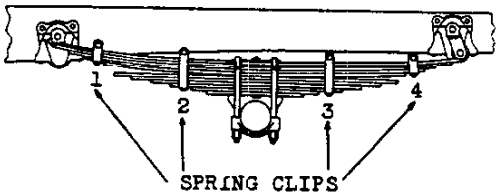
Continued

2-1-48. Revised: 3-17-48; 12-15-48; 1-17-49, ● Symbols corrected.

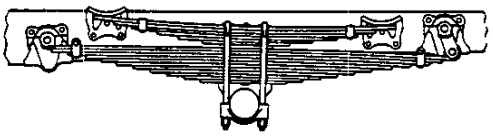
SEMI-ELLIPTIC, HEAVY DUTY TYPE



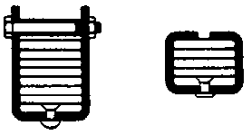
SEMI-ELLIPTIC, TWO-STAGE TYPE



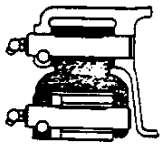
SEMI-ELLIPTIC AND AUXILIARY TYPE



SPRING CLIP TYPES



CLEVIS TYPE SHACKLE



Item				4502 6702	4100 4400	5000-6100 6400
Springs	Type			Semi-elliptic two-stage •	Semi-elliptic	Auxiliary
	Leaves	Material		Silico-manganese steel		
		Number		11 (5 & 6)	11 *	6 θ
		Thick-ness (Leaves numbered from top to bottom.)	#1,2	•		.323
			#3,4,5	.323	.360	
			#6			
			#7			
			#8,9			
			#10,11			
			total	3.849 •	3.960	1.938
	Load in pounds at opening height			3800 to 4200 @ 1-3/8	4370 to 4830 @ 1/4	
	Average deflection rate (pounds per inch)			625 @ 500-1000#; 1100 @ 3500-4500# •	1125	1530
	Capacity at ground (lb.)			5600	4465	7800
	Length x width			46x2-1/2		31x2-1/2
	Spring clip type (See figure)		Clinch			1-4
			Bolt	1-2-3-4	1-4	
Spring mount-ings	Shackle end		Located at	Rear		
			Type	Clevis and plain bushings		
			Pin size	7/8 dia		
	Fixed end		Bushing	1-1/8 O.D		
			Pin size	7/8 O D pin		
	Spring to axle attachment			Two U-bolts and cap to fixed metal seat on axle housing		
	U-bolt diameter			3/4 x		
	Bumper			Rubber, mounted on frame side member lower flange		
	Mounting angle			parallel		
	Spring center to center			42		
Shock absorb-ers	Double-acting, 1.75 Piston			RPO 200		
	Valve code		Compression	G2		
			Rebound	2L		

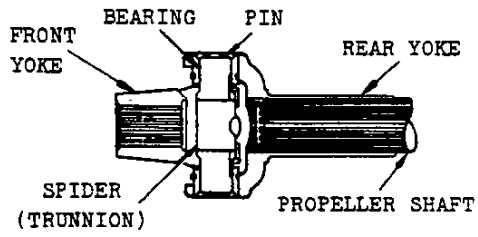
* - Spring also used in RPO 268 on all 6400 models.

θ - Also used in RPO 267, separately, or with heavy duty equipment on 4100 and 4400 models.

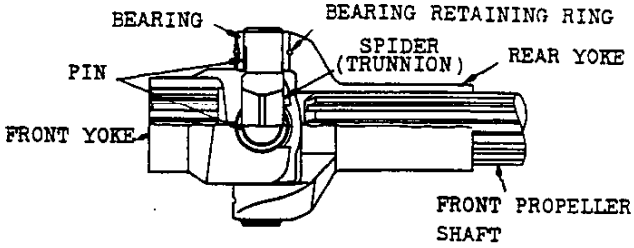
2-1-48. Revised: 3-17-48; 12-15-48. • - Spring redesigned, x - Was 5/8 for 4000 series.

UNIVERSAL JOINTS AND PROPELLER SHAFTS

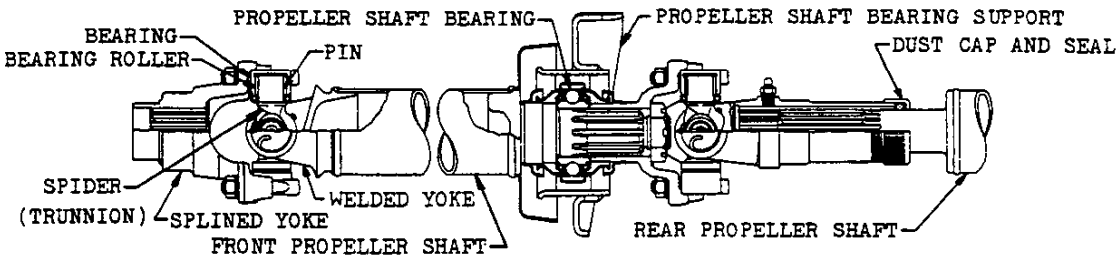
UNIVERSAL JOINT-3100 SERIES



FRONT UNIVERSAL JOINT-3600 SERIES

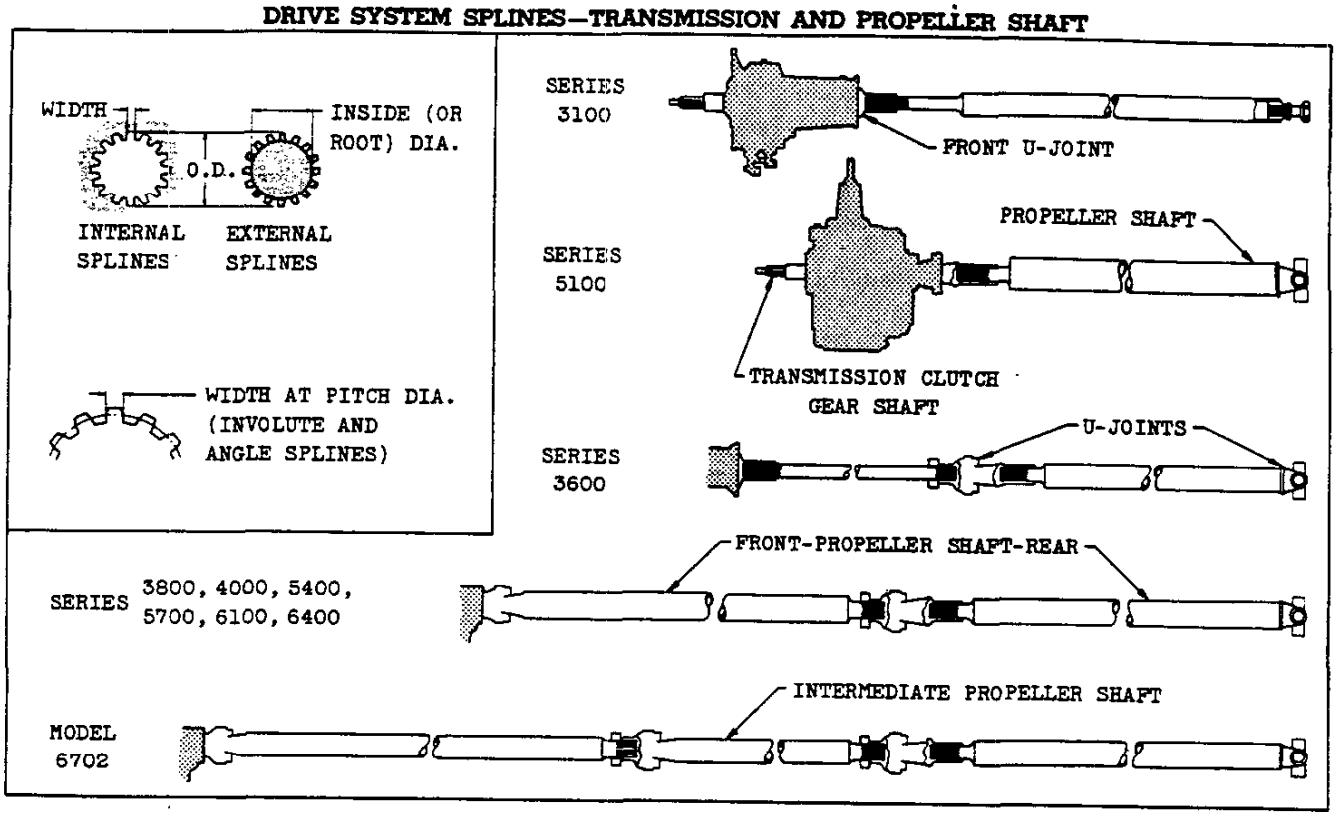


UNIVERSAL JOINTS AND PROPELLER SHAFTS (HEAVIER DUTY MODELS)



ITEM				3100	3600	5100	3800-4100-4400 5400-5700-6100-6400	4502	6702
UNIVERSAL JOINTS	Type and material			Yoke and trunnion, drop-forged steel; trunnion, case hardened.					
	Number used			1	3	2	3		4
	Pin diameter		Front	.6835-.6845	.716-.717		.7385-.7390		
			Center & rear						
	Bearings	Type	Front	Bushing			Needle bearing, 27 roller (Ch. 3660967)		
			Center & rear						
		Diameter	Front	.687-.688ID	.718-.719 ID		.09550-.09575 OD		
			Center & rear						
		Effect. length	Front	17/32	21/32		.580 minimum		
			Center & rear						
PROPELLER SHAFTS	Number used			1	2	1	2		3
	Type		Front		Solid		Tubular		
			Intermediate						Tubular
			Rear	Tubular					
	Outside diameter		Front		1-1/4-1-3/8		2.495-2.500		
			Intermediate						2.495-2.500
			Rear	2.055-2.065	2.495-2.500	3.00	2.495-2.500		
	Wall thickness		Front		Solid		.080-.085		
			Intermediate						.080-.085
			Rear	.092-.098	.080-.085				
	End type	Front	Front		Splined		Welded Yoke		
			Rear				Splined		
		Intermediate	Front						Welded Yoke
			Rear						Splined
		Rear	Front	Splined	Splined				
			Rear		Welded Yoke				
	Support bearing	Number used & type			One S.R. Ball		One S.R. Ball		Two S.R. Ball
		Part number			N.D. 954257		N.D. 954257		
		Inside diameter			1.3775-1.3780		1.3775-1.3780		
		Outside diameter			2.8341-2.8346		2.8341-2.8346		
		Width			.9793-.9843		.9793-.9843		
Propeller shaft guard	Number used							2	3
	Type							U-Bolt	
	Material							5/8 round steel	
	Location and mounting							Support at front of each prop. shaft	

DRIVE SYSTEM SPLINES—TRANSMISSION AND PROPELLER SHAFT



CLUTCH DISC HUB AND TRANSMISSION CLUTCH GEAR SHAFT

SERIES	ITEM	INTERNAL	EXTERNAL
3100, 3600	Width	.174 - .176	.1705 - .1725
	I.D.	.920 - .925	.918 max.
	O.D.	1.134 - 1.144	1.110 - 1.121
	Splines	10 (straight side)	
3800, 4000, 5000, 6000	Width	.174 - .176	.1705 - .1735
	I.D.	.920 - .925	.918 max.
	O.D.	1.134 - 1.144	1.110 - 1.121
	Splines	10 (straight side)	

TRANSMISSION MAINSHAFT AND FRONT U-JOINT FRONT YOKE

SERIES	ITEM	INTERNAL	EXTERNAL
3100, 3600	Width	.1473 - .1483	.1458 - .1473
	I.D.	.890 - .891	.853 - .863
	O.D.	1.003 - 1.017	.973 - .980
	Splines	10 (involute)	
3100, 3600 with RPO 318* 3800, 4000, 5000, 6000	Width	.1964 - .1979	.1939 - .1954
	I.D.	1.155 - 1.158	1.123 - 1.125
	O.D.	1.373 - 1.376	1.350 - 1.360
	Splines	10 (involute)	

* - RPO 318 4-speed transmission equipment.

PROPELLER SHAFT FRONT END AND FRONT U-JOINT REAR YOKE

SERIES	ITEM	INTERNAL	EXTERNAL
3100	Width	.0951 - .0961	.0921 - .0941
	I.D.	.993 - .997	.962 - .970
	O.D.	1.0835-1.0935	1.0642-1.0657
	Splines	17 (involute)	

PROPELLER SHAFT FRONT END AND FRONT U-JOINT REAR YOKE - Continued

SERIES	ITEM	INTERNAL	EXTERNAL
3600	Width	.1190 - .2015	.196 - .198
	I.D.	1.1145-1.1195	1.0515-1.0605
	O.D.	1.306 - 1.321	1.280 - 1.284
	Splines	10 (straight side)	

FRONT PROPELLER SHAFT REAR END AND PROPELLER SHAFT YOKE

SERIES	ITEM	INTERNAL	EXTERNAL
3600, 3800, 4000, 5400, 5700, 6000	Width	.2130 - .2145	.2125 - .2140
	I.D.	1.208 - 1.213	1.120 - 1.130
	O.D.	1.374 - 1.375	1.372 - 1.373
	Splines	10 (straight side)	

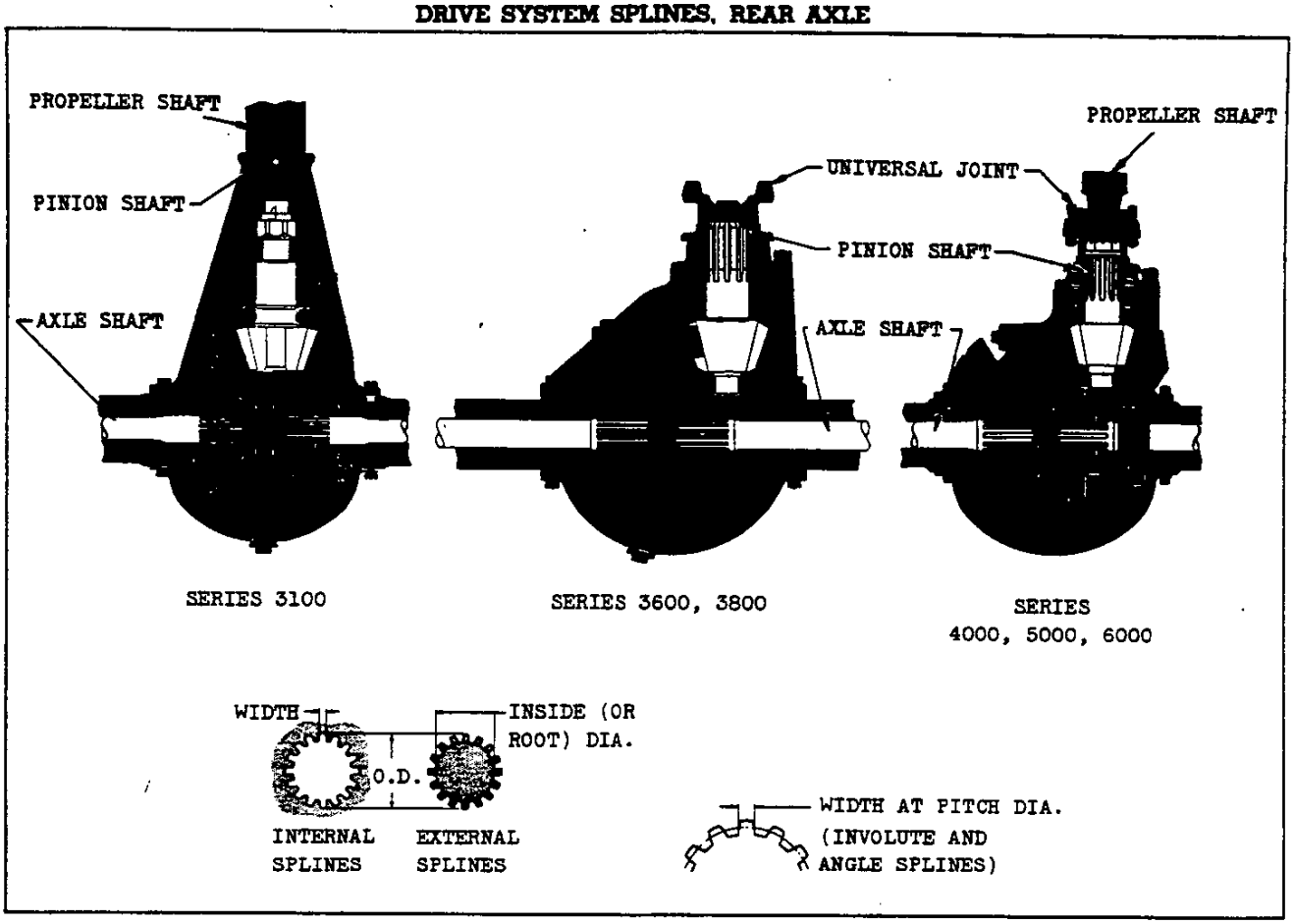
INTERMEDIATE PROPELLER SHAFT REAR END AND PROPELLER SHAFT YOKE

SERIES	ITEM	INTERNAL	EXTERNAL
6702	Width	.2130 - .2145	.2125 - .2140
	I.D.	1.208 - 1.213	1.120 - 1.130
	O.D.	1.374 - 1.375	1.372 - 1.373
	Splines	10 (straight side)	

REAR PROPELLER SHAFT FRONT END AND U-JOINT SLEEVE YOKE

SERIES	ITEM	INTERNAL	EXTERNAL
3600, 3800 4000, 5000, 6000	Width	.1455 - .1470	.1435 - .1450
	I.D.	1.295 - 1.300	1.281 - 1.288
	O.D.	1.499 - 1.500	1.497 - 1.498
	Splines	16 (straight side)	

DRIVE SYSTEM SPLINES, REAR AXLE



PROPELLER SHAFT REAR END COUPLING
AND REAR AXLE DRIVE PINION SHAFT

SERIES	ITEM	INTERNAL	EXTERNAL
3100	Width	.0951 - .0961	.0931 - .0951
	I.D.	.985 - .989	.965 - .973
	O.D.	1.0835-1.0935	1.068 - 1.074
	Splines	17 (involute)	

PROPELLER SHAFT PINION YOKE
AND REAR AXLE DRIVE PINION SHAFT

SERIES	ITEM	INTERNAL	EXTERNAL
3600, 3800, 4000*, 5000, 6000	Width	.302 - .303	.300 - .302
	I.D.	1.694 - 1.702	1.637 - 1.647
	O.D.	1.9675-1.9755	1.941 - 1.942
	Splines	10 (straight side)	
5000 & 6000 with RPO 202§	Width	.2325 - .2340	.232 - .234
	I.D.	1.289 - 1.294	1.230 - 1.235
	O.D.	1.499 - 1.502	1.496 - 1.498
	Splines	10 (straight side)	

DIFFERENTIAL SIDE GEAR
AND AXLE SHAFT

SERIES	ITEM	INTERNAL	EXTERNAL
3100	Width	.1144 - .1154	.1124 - .1144
	I.D.	1.194 - 1.198	1.166 - 1.174
	O.D.	1.3005-1.3105	1.2795-1.2845
	Splines	17 (involute)	
3600, 3800	Width	.1499 - .1509	.1479 - .1499
	I.D.	1.4245-1.4285	1.399 - 1.407
	O.D.	1.5485-1.5595	1.5275-1.5325
	Splines	17 (involute)	
4000*	Width	.259 - .262	.257 - .259
	I.D.	1.472 - 1.477	1.440 - 1.450
	O.D.	1.6735-1.6785	1.6345-1.6445
	Splines	10 (straight side)	
5000 & 6000 with regular or RPO 202§	Width	.173 - .175	.170 - .172
	I.D.	1.612 - 1.617	1.562 - 1.572
	O.D.	1.774 - 1.784	1.722 - 1.730
	Splines	16 (angle side)	

AXLE SHAFT FLANGE
AND REAR WHEEL HUB

SERIES	ITEM	INTERNAL	EXTERNAL
4000*, 5000 & 6000 with regular or RPO 202§	Width	.3106 - .3116	.3086 - .3106
	I.D.	3.295 - 3.305	3.245 - 3.255
	O.D.	3.795 - 3.805	3.765 - 3.775
	Splines	20 (involute)	

* - Series 4000 with regular (6.17:1) axle or RPO 204 (5.43:1) axle.

§ - RPO 202 is two-speed rear axle for Series 5000 and 6000.

BRAKES

ITEM			3100	3600	3800	4100-4400	4502	5000	6000
Service brake type			Hydraulic, 4-wheel internal expanding, double-articulating shoe.						
Parking brake	Type		Mechanical. (Pull rods and cables operate two shoes in each rear brake.)						
	Actuated by		Foot pedal		Hand lever				
	Mounted		On shaft thru bracket attached to underbody		To transmission			To subframe	To transmission
	Cables located		Outside of frame			Inside of frame			
Drum	Type		Composite. (Cast alloy iron rim and cooling ribs, pressed steel web.)						
	Dia. (front & rear)		11	11 & 12	12 & 14	14 & 16			
	Total area (sq.in.)		242	272	371	478			
Lining	Material		Full molded asbestos composition						
	Width	Front	1-3/4		2				
		Rear	1-3/4	2	2-1/2	3			
	Thick-ness	Front	.187-.194		.265-.272				
		Rear	.187-.194	.265-.272					
	Clear-ance	Front	Adjust to slight drag.		Adjust to slight drag. Back off 4 notches.				
		Rear	Back off 4 notches.		Adjust to slight drag. Back off 2/3 screw turn.				
	Attach-ment	Front	Riveted (Bonded optional)			Riveted			
		Rear							
Lining area (effective)	Service brake		164 sq.in.	183 sq.in.	248 sq.in.	330 sq.in.			
	Parking brake		82 sq.in.	101 sq.in.	147 sq.in.	215 sq.in.			
Braking pressure	Front		52-1/2%	45-1/4%	50%	41%			
	Rear		47-1/2%	54-3/4%	50%	59%			
Approximate braking ratio	Pedal		6.387:1					6.31:1	6.387:1
	Hydraulic		11.89:1	8.81:1	9.65:1	9.73:1		9.73:1*	
	Overall		75.94:1	56.27:1	61.63:1	62.15:1		61.40:1*	62.15:1*
Foot pedal	Travel		7.937						
	Mounting		On pedal shaft which is attached to side rail bracket					Same but on subframe	Same as 4000 Series
	Pad		Molded rubber						
Wheel cylinder	Dia-meter	Front	1-1/4		1-3/8	1-1/4			
		Rear	1-3/16	1-3/8		1-1/2			
	Piston travel		.105	.141	.130				
Main cylinder	Diameter		1	1-1/4					
	Piston travel		1-1/4						
Brake fluid capacity			Approximately 3/4 pint			Approximately 1 pint			
Brake fluid recommended			Delco, Super #11 or 12						

* - Ratio does not include Vacuum Brake Booster Equipment.

BRAKE BOOSTER EQUIPMENT AVAILABLE ONLY ON 4000, 5000, AND 6000 SERIES

ITEM		4100-4400	4502	5000	6000
Brake booster equipment (hydraulic)	Available as	RPO 212		Regular equipment	
	Type	Single piston, vacuum suspended, reactionary valve.			
	Power distribution	At 1000 PSI of hydraulic pressure, power distribution is: 63% by pedal and 37% by booster.			
	Pedal pressure (actual test)	At 1000 PSI of hydraulic pressure, pedal pressure is: 204 lbs. without booster --- 133 lbs. with booster.			
Vacuum power reserve tank	Available as	RPO 281 (used with RPO 212)		RPO 281	
	Size	24 length x 7-1/2 inside diameter			
	Location	Clamped to inside of left side rail		Clamped to outside of left side rail	Clamped to inside of left side rail

RPO BRAKE EQUIPMENT AVAILABLE ONLY ON SCHOOL BUSES

Propeller shaft hand brake	Available as	RPO 348
	Type	Double-faced disc
	Brake lining size and total area	3-7/16 inside radius x 5-7/16 outside radius x 1/4 thick x 90° arc 27.8 square inches of area
Main cylinder reservoir	Available as	RPO 259
	Size	6-1/2 overall length x 3 diameter
	Location	Left side of dash, under hood

2-1-48

POWER PLANT GENERAL INFORMATION

BASIC DESIGN DATA

ITEM		3000-4100-4400	4502	5000	6000 *
Piston displacement		"THRIFT-MASTER" 216.5 cu.in.		"LOAD-MASTER" 235.5 cu.in.	
Bore x stroke (nominal)		3-1/2 x 3-3/4		3-9/16 x 3-15/16	
Type		6 cylinder, valve-in-head			
Compression ratio		6.5:1		6.62:1	
Taxable (SAE) horsepower		29.4		30.4	
Engine idling speed		450-500 RPM			
Comp. pressure (engine hot)		110 pounds at cranking speed (210-220 RPM)			
Weight (dry)	Engine and clutch	3100-582#, others-585#		619#	593#
	Eng., clutch, trans.	3100-639#,3600-643#,rest-715#		749#	723#
Governor		RPO 241(2800RPM) Reg.(35 MPH)		Regular (2800 engine RPM) (35 MPH on 6702)	

* - Available as RPO 225 "LOAD-MASTER" engine for all models of 4000 series.

ADVERTISED MAXIMUM ENGINE PERFORMANCE

ITEM		3000-4000	5000	6000
Horsepower	Gross	90 @ 3300 RPM	90 @ 3100 RPM	93 @ 3100 RPM
	Net	81.5 @ 3100 RPM	80 @ 3300 RPM	83.5 @ 3000 RPM
Torque, (ft.lb.)	Gross	174 @ 1200-2000 RPM	189 @ 1000-1900 RPM	192 @ 1000-1900 RPM
	Net	168 @ 1100 RPM	179 @ 1000 RPM	182 @ 1000 RPM

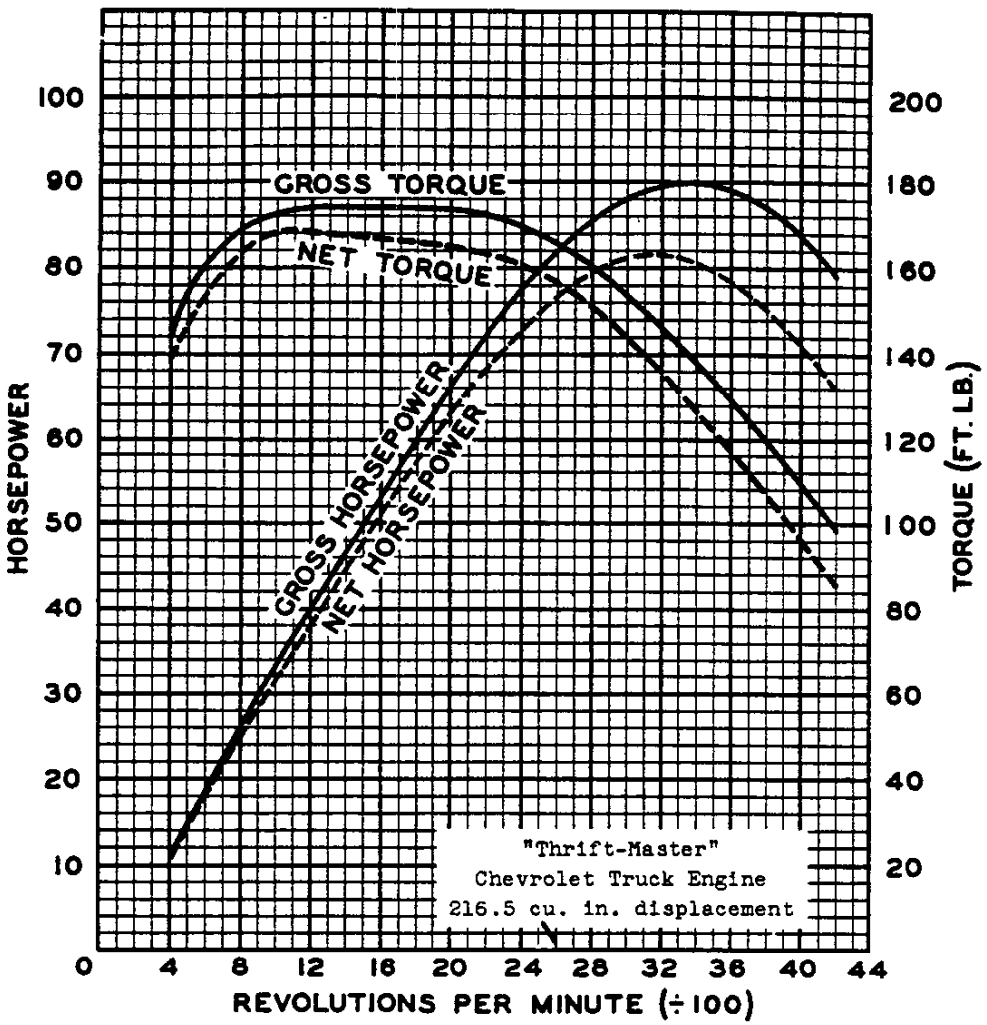
ENGINE SPEED AND PISTON TRAVEL θ

SERIES	TIRE SIZE	AXLE RATIO		TRANS-MISSION TYPE	ENGINE RPM AT ONE MILE PER HOUR PISTON TRAVEL(FT/MI) LOW	SECOND	THIRD	HIGH δ	THRIFT-MASTER	LOAD-MASTER	CRANKSHAFT REV. PER MILE
3100	6.00-16	4.11:1		3-speed	150	86		51	1909		3054
				4-speed	359	182	87				
	6.50-16			3-speed	147 •	84 •		50	1870 •		2992 •
				4-speed	352 •	179 •	85 •				
	6.70-15			3-speed	151	86		51	1921		3074
				4-speed	362	183	88				
	15"			3-speed	144	82		49	1837		2939
				4-speed	346	175	84				
3600	15"	4.57:1		3-speed	160	91		54	2043		3268
				4-speed	384	195	93				
	7.00-17			3-speed	147	84		50	1871		2993
				4-speed	352	179	85				
	7.50-17			3-speed	143	82		49	1819		2911
				4-speed	343	174	83				
3800	7.00-17	5.14:1			396	201	96	56	2104		3367
	7.50-17				385	195	93	55	2046		3274
	7.00-18				381	193	92	54	2024		3238
4000	6.50-20	5.43:1			392	199	95	55	2081	2185	3329
	7.00-20				381	193	92	54	2023	2124	3236
	6.50-20	6.17:1			445	226	108	63	2364	2482	3782
	7.00-20				433	219	105	61	2298	2413	3677
	7.50-20				415	210	100	59	2202	2312	3523
5000 and 6000	7.50-20				415	210	100	59		2312	3523
	8.25-20				401	203	97	57		2239	3412
	7.50-20	two speed	6.13:1		412	208	100	58		2297	3500
			8.10:1		544	276	132	77		3035	4625
	8.25-20		6.13:1		399	202	97	57		2225	3390
			8.10:1		527	267	128	75		2939	4479
5000 6100 6400	x 9.00-20	6.17:1			380	193	92	54		2118	3227
		two speed	6.13:1		377	191	91	53		2104	3206
			8.10:1		498	253	121	71		2780	4236

θ - Engine RPM is determined by locating the figure for one mile per hour (see chart above) and multiplying by the desired miles per hour. MPH is determined by dividing the known engine RPM by the engine RPM for one mile per hour (see chart above). δ - Also known as NV factor.

2-1-48. Revised: 3-17-48; 9-1-48, • - Corrected to latest tire data, x - Data for 9.00-20 tires added.

ENGINE PERFORMANCE



Th engine performance curves shown on this sheet are true copies from Chevrolet engine test report 9616-45. They represent the full throttle performance of a "Thrift-Master" Chevrolet truck engine (216.5 cu.in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. and the standard temperature of 60° F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system, no fan, generator not charging, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular muffler and pipes, the fan in operation, the generator charging and automatic spark advance.

January 15, 1948

The data on this sheet are true as represented.
CHEVROLET - CENTRAL OFFICE - ENGINEERING DEPT.
DIVISION OF GENERAL MOTORS CORPORATION

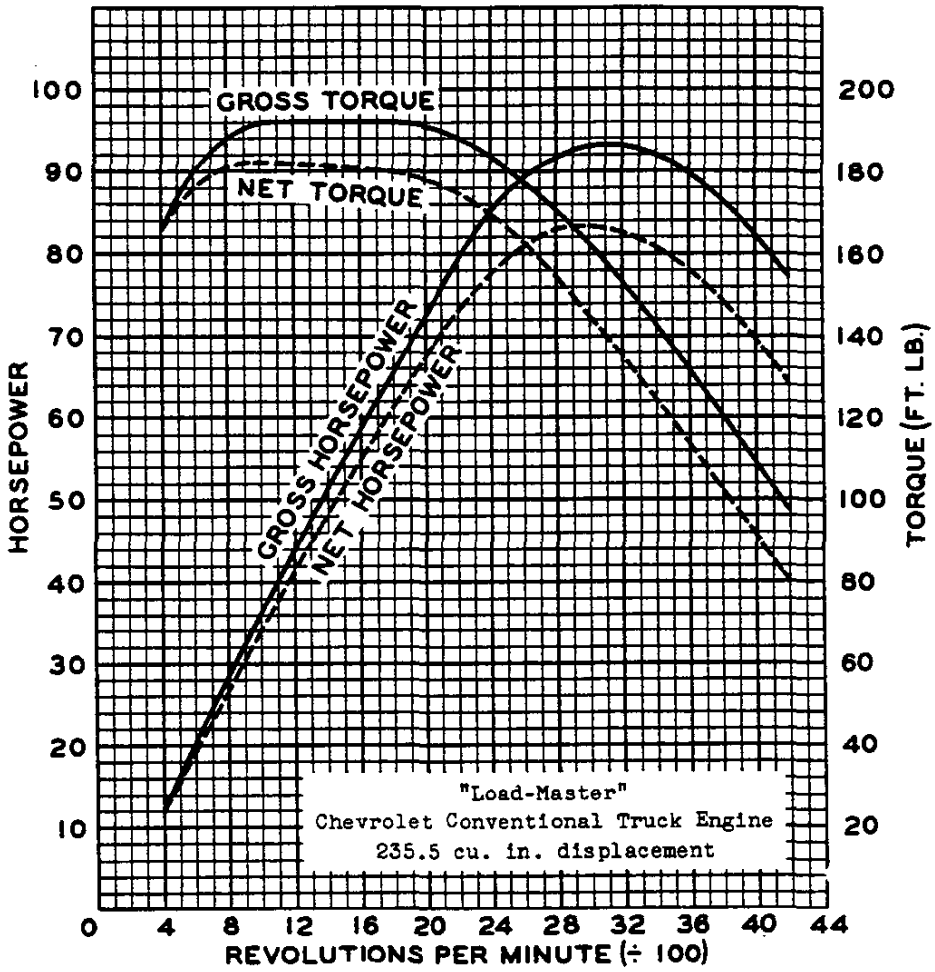
R. B. Wuerfel
Transport Engineer

State of Michigan
County of Wayne

On this 15th day of January 1948 personally appeared before me, R. B. Wuerfel, known to me to be such, who makes oath that the data on this sheet are true as represented.

B. N. Holmes
Notary Public, Wayne County
My commission expires July 27th, 1951

ENGINE PERFORMANCE



The engine performance curves shown on this sheet are true copies from Chevrolet engine test report 9840. They represent the full throttle performance of a "Load-Master" Chevrolet conventional truck engine (235.5 cu.in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. and the standard temperature of 60° F.

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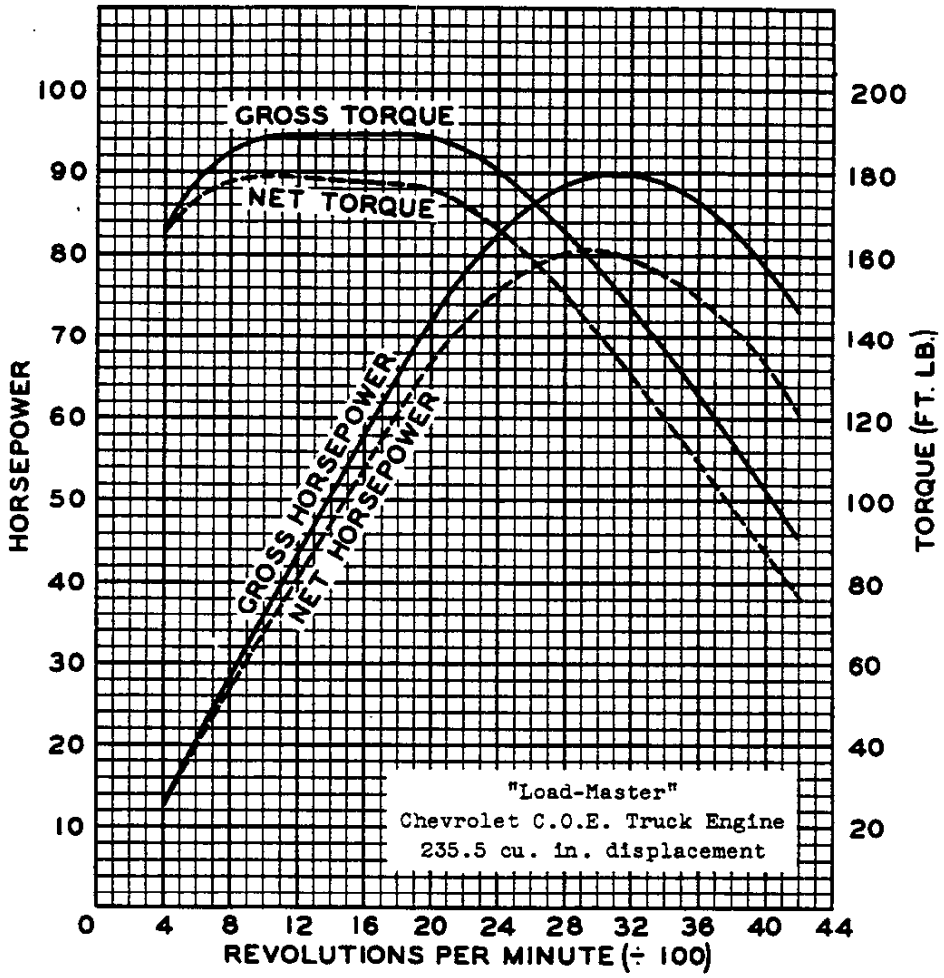

The engine performance curves shown on this sheet are true copies from Chevrolet engine test report 9840-35. They represent the full throttle performance of a "Load-Master" Chevrolet COE truck engine (235.5 cu.in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. and the standard temperature of 60° F.

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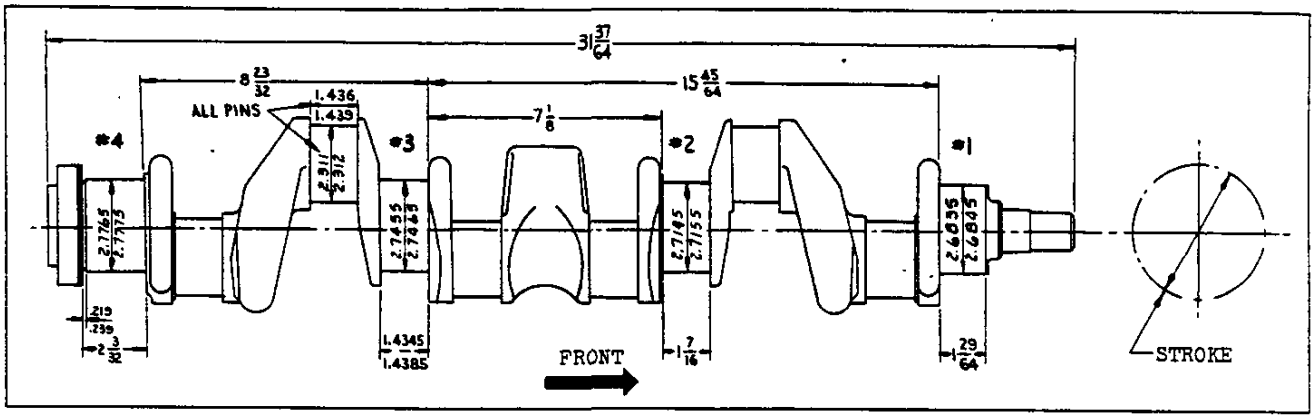
CYLINDER AND CASE AND HEAD

Material ---------- Cast alloy iron
Offset ---------- None
Cyl. head bolt torque ---------- 70-80 ft.lb.

Bore diameter:
"Thrift-Master" (216.5 eng.) -- 3.4995-3.5015
"Load-Master" (235.5 eng.) ---- 3.5620-3.5640

CRANKSHAFT AND BEARINGS



CRANKSHAFT

Material ---------- Drop-forged steel
Weight ---------- 69 lb.
End play ---------- .003-.009
Counterweights ---------- 7
Stroke-"Thrift-Master" ---------- 3-3/4 ± .005
-"Load-Master" ---------- 3-15/16 ± .005

HARMONIC BALANCER (Vibration dampener)

Type ---------- Oscillating (Rubber-floated)
Fan drive pulley diameter ---------- 6-1/32

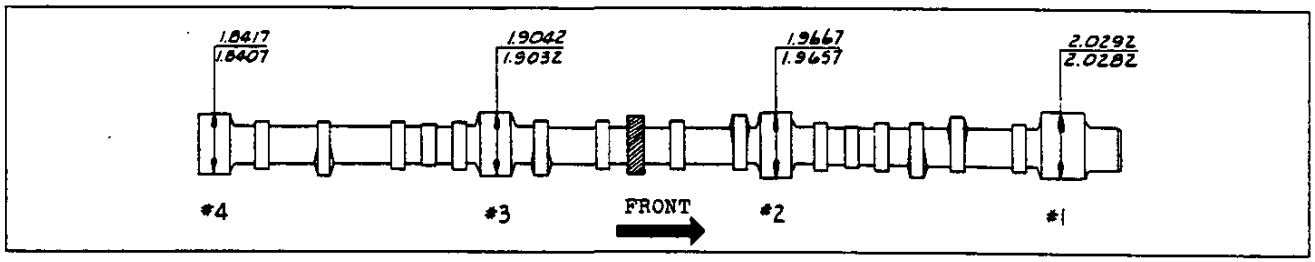
MAIN BEARINGS

Material ------ .003-.007 babbitt on steel shell
Type ---------- Precision Interchangeable
Removable ---------- From below
Necessary to align ream ---------- No
Clearance • --- .0007-.0024 fit with solid shims
End thrust taken on ---------- #3
Bearing bolt torque ----------
---------- 100-110 ft.lb. with oiled threads

Brg.	Inside Dia.	Length	Proj. Area*
#1	2.6850-2.6866	1-3/16	2.758 sq.in.
#2	2.7160-2.7176	1-1/8	2.595 sq.in.
#3	2.7470-2.7486	1.4295-1.4315	2.793 sq.in.
#4	2.7780-2.7796	1-5/8	4.071 sq.in.

* - Based on effective length, i.e. overall length shown above, less oil groove and chamfers.

CAMSHAFT AND BEARINGS



CAMSHAFT

Material ---------- Drop-forged steel
Minimum diameter ---------- 1-3/32
End play ---------- Free to .003 maximum
Ramp-inlet ---------- .0111
-exhaust ---------- .014

DRIVE

Make ---------- Chevrolet
Type ---------- Helical gear
Driven gear (on camshaft) material ----------
---------- "Thrift-Master", Bakelite and fabric composition with steel hub; "Load-Master", sand cast aluminum alloy with steel hub.
Drive gear (on crankshaft) material ------ Steel

BEARINGS

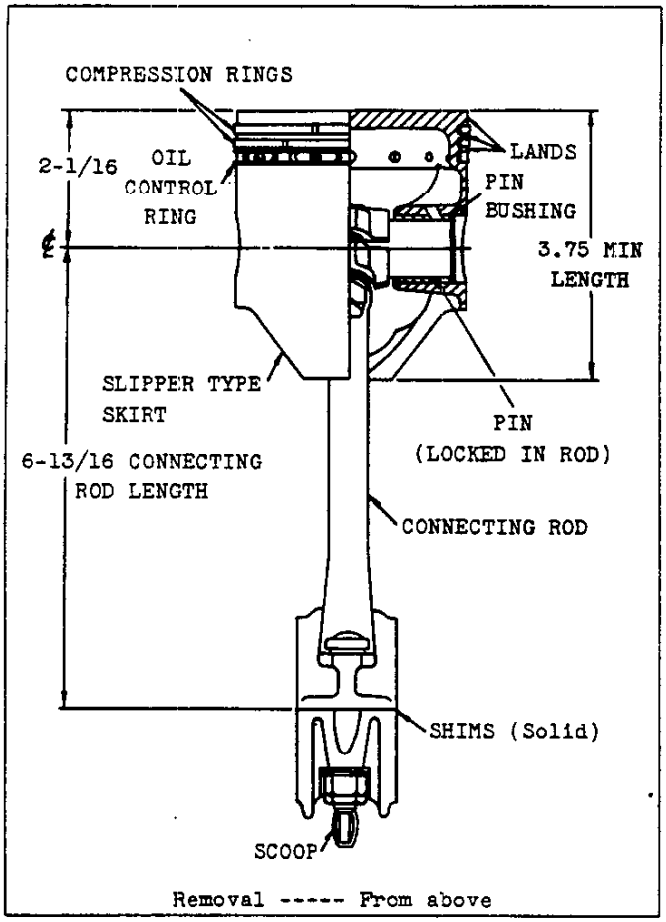
Material ---------- Steel-backed babbitt
Clearance on diameter ---------- .0015-.0035
Thrust taken at ---------- #1

Brg.	Inside Dia.	Length	Proj. Areaθ
#1	2.0307-2.0317	1-1/8	2.285 sq.in.
#2	1.9682-1.9692	15/16	1.846 sq.in.
#3	1.9057-1.9067	15/16	1.787 sq.in.
#4	1.8432-1.8442	15/16	1.728 sq.in.

θ - Based on overall length shown above.

2-1-48. 3-17-48: • - Clearance dimension corrected.

PISTON-PIN-RINGS



PISTON

Make ---------- Own
Size ---------- to fit 3-1/2 bore (216.5 engine); to fit 3-9/16 bore (235.5 engine)
Features ---------- Flat head; oval, slipper skirt
Material ---------- Cast alloy iron, surface treated with a wear resistant coating.
Head thickness at center ---------- .180-.190
Diametral relief at lands ---------- .015-.023
Skirt clearance in cylinder bore: pass on .0015; hold on .003
Compression ring groove diameter:
- Thrift-Master engine ---------- 3.155-3.180
- Load-Master engine ---------- 3.2175-3.2425

Oil ring groove diameter ----------
- Thrift-Master engine ---------- 3.118-3.128
- Load-Master engine ---------- 3.180-3.200

Oil drain holes -number ---------- 14
-size ---------- 5/32 drill
Piston pin bushings:
- Type ---------- Pressed into piston
- Material ---------- Cast bronze
- Inside diameter ---------- Slip fit on pin
- Length (each) ---------- 15/16
- Weight (each) ---------- .06 lb.

Weights:	Thrift-Master	Load-Master
Piston alone	1.68 lb.	1.74 lb.
Piston and bush. assy.	1.80 lb.	1.86 lb.
Piston, bushings, rings, pin and conn. rod upper end x 6	16.13 lb.	16.49 lb.

PISTON PIN

Material ---------- Chromium steel (file hard case)
Diameter ---------- .8645-.8650
Length ---------- 3.135-3.165
Taper limit in full length ---------- .0002
Weight ---------- .318 lb.
Clearance in bushing ---------- Slip fit

COMPRESSION RINGS

Material ---------- Cast alloy iron, surface treated with a wear resistant coating.
Type ---------- Taper face
Number per piston ---------- Two
Width ---------- .1235-.1240
Wall thickness ---------- .155 maximum
Gap clearance ---------- .005-.015
Ring clearance in groove ---------- .0015-.003
Weight (each) ---------- .05 lb.

OIL CONTROL RING

Material ---------- Cast alloy iron
Type ---------- Wide slot
Width ---------- .1860-.1865
Wall thickness -Thrift-Master engine --- .155 max.
-Load-Master engine ---------- .160 max.
Gap clearance ---------- .005-.015
Ring clearance in groove ---------- .0020-.0035
Weight ---------- .05 lb.

CONNECTING RODS

Type ---------- Rod clamps piston pin
Material ---------- Drop-forged steel
Assembly center of gravity -- 5.325 from piston pin
Rod width at piston pin ---------- 1.125-1.127
Rod width at crankpin ---------- 1.4275-1.4315
Crankpin bearing:
- Type ---------- Spun (centrifugally cast)
- Material ---------- High lead babbitt
- Diameter ---------- 2.3135-2.3140
- Effective length --- (overall length less oil groove and chamfers) ---------- 1.076
- Clearance on diameter ---------- Selective fit
- Projected area per rod -- (based on effective length) ---------- 2.490 sq.in.

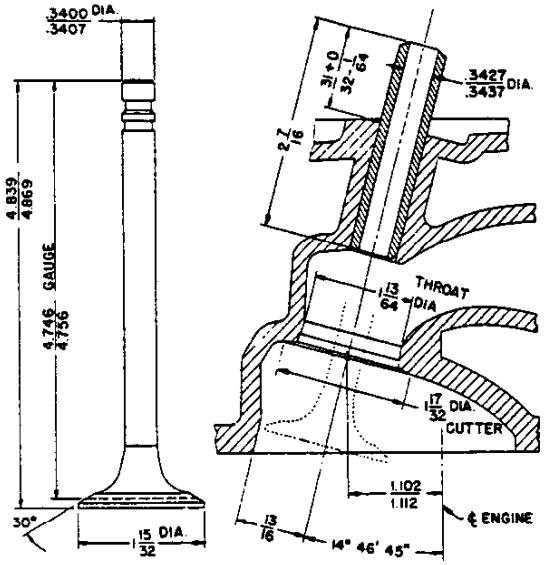
Assembly weight: ---------- 1.92 lb.
- Upper end ---------- .42 lb.
- Lower end ---------- 1.50 lb.

Total rotating weight --------- (weight of lower end x 6 connecting rods) ---------- 9.00 lb.
End play ---------- .004-.012
Recommended nut torque (with oiled threads) ---- ---------- 40-50 ft.lb.

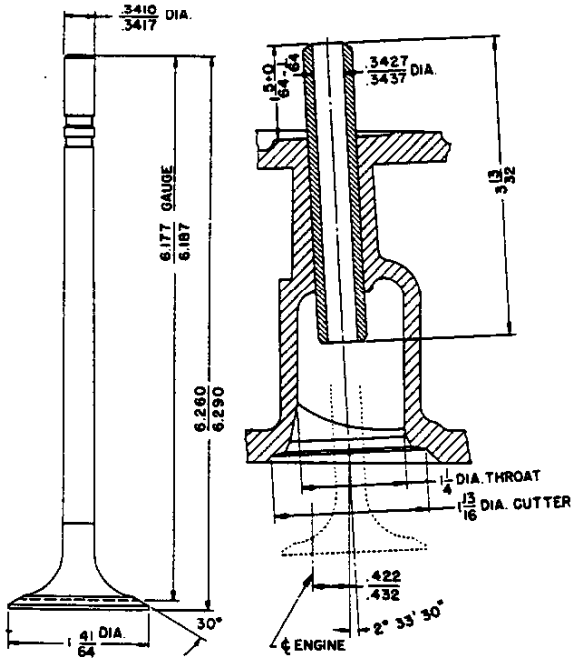
2-1-48

VALVE TRAIN

EXHAUST



INTAKE



VALVES

Make ---------- Own
Material-exhaust valve ------- High chrome steel
-inlet valve ---------- Silichrome steel
Stem end style --- Grooved for keys and oil seal
Lift-exhaust valve ---------- .3118
-inlet valve ---------- .2941
Distance between valve centers ----------
- 1-21/32 (measured along centerline of engine).

Valve lash (engine normalized*):

	Inlet	Exhaust
Regular engine, up to and incl. 8000 lb. GVW and school buses	.008	.015
Reg. engine above 8000 lb. GVW	.010	.020
RPO 224 economy engine	.010	.016

* - To normalize engine, run it at fast idle (approximately 600 RPM) until a constant oil temperature is maintained for a period of five minutes.

TAPPETS

Type and material - Cylindrical, cast alloy iron
Outside diameter ---------- .989-.990
Lift-exhaust ---------- .2111
-inlet ---------- .1991
Clearance ---------- Selective fit
Hydraulic valve lifters ---------- None

VALVE STEM GUIDES

Type ---------- Removable
Clearance with stem-exhaust --------- .002-.0037
-inlet ---------- .001-.0027

VALVE ROCKER ARMS

Material ---------- Cast malleable iron
Ratio (cam lift to valve lift) --------- 1.477:1
Torque of valve rocker shaft support bolts and nuts ---------- 25-30 ft.lb.
Bearing-type ---------- Rocker arm I.D.
-inside diameter ---------- .7925-.7935
-length ---------- 15/16

VALVE SPRINGS
LENGTH AND PRESSURE

Valve closed ---------- 1.821 at 53-63 lb.
Valve open ---------- 1.505 at 124-140 lb.
Free (out of engine) length ---------- 2-1/8

VALVE SEATS

Material ------- Cast alloy iron (cylinder head)
Inserts ---------- None
Cooling ---------- Jets of water under pressure
width in head-exhaust ---------- .062-.093
-inlet ---------- .035-.060

2-1-48

ENGINE COOLING SYSTEM

Method of cooling cylinder walls -------- Full length water jacket with water around each cylinder.
Method of cooling valve seats --- "Nozzle jet" system (water under pressure directed against seats).

ITEM			3100	3600	3800-4000	5000	6000
Capacity (quarts)	Regular		15			17.5	17.5, with shroud
	RPO 256			17.5, with shroud			
Radiator core	Make and type		Harrison, ribbed cellular				
	Material		All copper				
	Size	Regular	.25 x .560 x 2		.20 x .560 x 2		.20 x .560 x 3
		RPO 256		.20 x .560 x 3			
	Frontal area		407 square inches				
Radiator overflow tank			RPO 271				RPO 271
Pressure cooling			In 5000 Series only: radiator cap pressure valve opens 3-1/2 to 4-1/2 lb.				
Radiator hose	Type		Reinforced rubber. Two hoses and steel tube to engine inlet.				
	Location and size	Inlet	From cylinder head to radiator core upper tank. 1-1/4 I.D.				
		Outlet	From radiator core lower tank to water pump. 1-1/2 I.D. x 3-1/8				
Thermostat	Make and type		Harrison. Bellows operated poppet valve.				
	Location		In cylinder head water outlet.				
	Valve action at 29" Hg.bar. press.	Regular	Starts to open at 140-147°F. Fully open at 170°F.				
		RPO 224	For 3000 Series only: starts to open at 157-165°F. Fully open at 185°F.				
		Accessory	Starts to open at 157-165°F. Fully open at 185°F.				
		types	For alcohol antifreeze. Starts to open at 148-156°F. Fully open at 176°F.				
			For permanent antifreeze. Starts to open at 175-184°F. Fully open at 204°F.				
Engine fan	Make		Own				
	Type and size		4 staggered blades, 18 diameter				
	Pulley size		28°V x 4-21/64 diameter				
	Fan to engine speed ratio		1.405:1				
	Fan belt	Material	One-piece reinforced rubber				
		Size	11/16 max. width x 42-7/8 around outside				
Water pump	Type and drive		Centrifugal, by fan belt				
	Location		On front of cylinder and case				
	Capacity		47 gallons per minute at 4000 engine RPM				
	Bearing	Type	N.D. 954252, double row ball - permanently lubricated.				
		Size	1.1806-1.1811 O.D. x 1-21/32 bearing length				
	Seal	Matl.	Molded rubber, sealed with rubber cement.				
		Adjust.	Automatic, by spring tension.				

FUEL SYSTEM

FUEL TANK

ITEM		3100 3600	3800	4100-4400 6100-6400	5000	4502 6702
Mounting types	Regular	Inside of frame		Outside of frame		
	RPO 379			Inside of frame		
Type		Two stamped pans, seam welded together				3-piece. Soldered or welded seams
Capacity		16 gal.	18 gallons			30 gallons
Filler location		To rear of right side door location				At right side of chassis
Fuel gauge	Make	AC				
	Type	Electric				

CARBURETOR

ITEM		3000	3000-4000 6000	5000
Regular or RPO		RPO 224	Regular	
Make		Carter		
Model		W1-616S	W1-574S	BB1-517S
Type		Single adjustment, balanced		
		Down-draft		Up-draft
Idle adj. Number of turns open		1 to 2	1-1/4 to 2-1/4	1/2 to 1-1/4
Size (Main venturi throat I.D.)		1-1/16	1-1/4	1-1/16
Float level when closed		Top of float is 1/2 below finished surface of cover		Top of float is 1/32 to 1/16 below top of float chamber
Choke		Manual (no automatic choke)		
Manifold	Heat control	Automatic (thermostatic)		
	Cover	Yes		

CONTINUED

FUEL SYSTEM—Continued

AIR CLEANER

ITEM		3000-4000	5000	6000
Make		AC		
Flame arrester type		Reg. equip.		
Heavy duty oil bath type	1 lb. cap.	RPO 216* except 4502		
	2 lb. cap.	RPO 216*		Reg. equip.
	4 lb. cap.		Reg. equip.	

* - Not used with heavy duty engine equipment.

FUEL PUMP

Make ---------- AC
Model ---------- AF
Type ----- Mechanical (diaphragm) "high reserve"
Drive ---------- From camshaft
Arm throw ---------- 1/4 at camshaft
Air dome ---------- Yes (inlet and outlet)
Filter ---------- 120 mesh screen in dome
Pressure at carburetor ---------- 3 to 4 lb.

FUEL AND VACUUM PUMP - RPO ●

Make ---------- AC
Model ---------- BW
Fuel pump specifications ---------- See above
Vacuum pump type ------- Mechanical, (Diaphragm)
Operation ---------- Operates only when manifold vacuum is insufficient for windshield wiper action.

Octane selector ---------- Manual, 20° range

EXHAUST SYSTEM

Muffler:
Make ---------- Various
Type -- Diffusion and resonance, reverse flow
Muffler mounting ---------- Single-point
Exhaust pipe outside diameter ---------- 1-7/8
Tail pipe inside diameter ---------- 1-11/16

ENGINE LUBRICATION SYSTEM

METHOD OF LUBRICATION

Type ---------- Chevrolet "Specialized" (pressure, pressure stream, and splash). Main bearings --- Direct pressure through drilled passages in the cylinder case to the bearings. Camshaft bearings ---------- Direct pressure through passages from the main bearings. Timing gears ---------- Gravity feed. Connecting rod bearings ---------- Pressure streams directed against connecting rod scoops. Cylinder bores and piston pins --------- Splash. Valve mechanism ---------- Pressure. Oil is piped from oil distributor (high pressure side) past bleed hole (to regulate pressure) and through metering hole; then through water jacket (for temperature-conditioning), and, finally, to rocker shaft and arms. Valve stems, springs, and push rod ends are gravity-fed from rocker arms. Water pump bearing ---------- -- Permanently lubricated, sealed, ball bearing.

OIL PUMP

Type and drive ---------- Gear, from camshaft
Capacity (gallons per minute, hot oil) ---------- 7.16 at 4000 engine RPM
Normal oil pressure ---------- 14 lb. at 2000 engine RPM
Oil pressure relief valve opens at ------ 60 PSI
Cleaner type -- 20 mesh x .015 non-corrosive steel wire screen; by-pass in intake side of oil pump.

MISCELLANEOUS

Oil pressure gauge ---------- See "instruments"
Oil level gauge ---------- Rod type
Oil filter (RPO 237):
Make ---------- AC
Capacity (dry) ---------- 2-1/2 qt.
Flow ---------- Approximately 20 gal./hr.
Oil pan:
Capacity -- 5-1/2 qt., dry; 5 qt., for refill
Drain ---------- Plugged hole in rear of pan
Torque, corner bolts ---- 12-1/2 to 15 ft.lb.
Torque, flange screws ----- 6 to 7-1/2 ft.lb.

LUBRICANT RECOMMENDED

Temperature	Grade
Not lower than 32°F. ----------	20W or SAE 20
As low as 10°F. ----------	20W
As low as minus 10°F. ----------	10W
Below minus 10°F. -------	10W, plus 10% kerosene

OIL FILLER AND CRANKCASE VENTILATION

Oil filler type and location:
Series 3100-5000 --- Tube on right side of engine
All others ------- Cap on top of rocker cover
Crankcase ventilation:
Inlet -------- Louvers in top of rocker cover
Outlet --- Suction tube on right side of engine

2-1-48. Revised: 3-17-48; 9-1-48, ● - Fuel and vacuum pump data added.

ENGINE ELECTRICAL SYSTEM

GENERATOR

Make ---------- Delco-Remy
Model ---------- 1102667
Type ---------- 2 brush, shunt wound
Rated voltage ---------- 6 to 8
Ventilation --------- By fan in generator pulley
Driven by ---------- Fan belt
Pulley size ---------- 280V x 3-11/32 dia.
Speed ratio (gen. to engine) ---------- 1.83:1
Maximum output (controlled charging rate) --- Hot:
  Amperes ---------- See current regulator
  Volts ---------- See voltage regulator
  Generator RPM ---------- 2400 and up
  Engine RPM ---------- 1311 and up

Bearings:	Commutator end	Drive end
Number	812823	N.D. 903203
Type	Bronze bushing	Ball
I.D.	.562-.563	.6690-.6693
O.D.	.783-.784	1.5743-1.5748
Width	51/64	.4674-.4724

Generator speed at closing ---- See cutout relay
Engine speed at closing ------- See cutout relay
Brush spring tension ---------- 24 to 28 oz.
Rotation (drive end) ---------- Clockwise

STARTING

Starting device ---------- Mechanical over-running clutch actuated directly by pedal.
Starting operation ---------- --- With ignition switch ON, depress starter pedal.
Pinion meshes ---------- From front of flywheel
Pinion teeth ---------- 9
Flywheel teeth -------- 139, 1/2 wide, 13.9 P.D.
Flywheel bolt torque (service) ---- 50-65 ft.lb.
Gear ratio (starter to flywheel) ------- 15.44:1
Normal engine cranking RPM (60°F air) ------ 125

STARTING MOTOR

Make ---------- Delco-Remy
Model ---------- 1107055
Direction of rotation (front view) ---------- Counter-clockwise

Bushings	Commutator end	Drive end
Type	Bushing pressed in die cast aluminum end frame	Rolled bronze graphite
I.D.	.5625-.5635	.499-.501
O.D.	.6245-.6255	.5615-.5625
Width	.812	.779-.784

Starting motor test data ----------

	Lock test	No load test
Amperage draw	525	65
Volts	3.4	5
Torque	12 ft.lb.	
RPM		5000

Brush spring tension ---------- 24 to 28 oz.

VOLTAGE AND CURRENT REGULATOR

Make and model ---------- Delco-Remy 1118201
Type ---------- Vibrator
Voltage regulator:
  Volts ---------- 7.0-7.7 (preferred 7.4)
  Temperatures ---------- Operating
  Average air gap ---------- .075-.085
Current regulator:
  Amperes ---------- 32-40 (preferred 36)
  Temperatures ---------- Operating
  Average air gap ---------- .075-.085
Cutout relay:
  Voltage at closing -- 5.9-6.8 (preferred 6.4)
  Generator armature speed ---------- 800 RPM
  Engine speed ---------- 437 RPM
  Average air gap ---------- .020

BATTERY

ITEM	SCHOOL BUSES	COE	ALL OTHERS
Make and model	Delco 19Q4W	Delco 15AA4-W •	
Length, at top	10-3/8	9	
Width, at top	7		
Height	8-11/16		
Voltage	6		
Capacity	125 amp. hrs. at 20-hour rate	100 amp. hrs. at 20-hour rate	
Bench normal charging rate	9 amp.	7 amp.	
Cell arrangement	3, side-to-side		
Plates per cell	19	15	
Ground	Negative terminal		
Location	At right, on frame under hood	At right, inside of sub-frame	At right, outside of frame

IGNITION SYSTEM

Type ---------- Separate units, as follows: high tension distributor ground return system with centrifugal and vacuum spark advance, high intensity spark, waterproof coil.
Ignition cable make ---------- Packard Electric
Ignition lock-make ---------- Delco-Remy
  -type ------- Three position: On, locked off, or unlocked off.

COIL

Make ---------- Delco-Remy
Model ---------- 1115380
Location ---------- Engine right side
Amperes drawn --- 4.5, engine stopped; 2.5, idling

SPARK PLUGS

Make ---------- AC
Model ---------- 104
Thread size ---------- 10 mm.
Recommended gap ---------- .040
Recommended torque (service) ------ 12-15 ft.lb.

CONTINUED

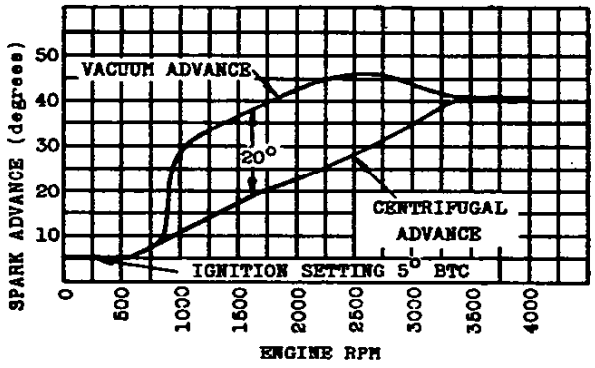
2-1-48. Revised: 9-10-48; 10-15-48, • - Battery make and model corrected.

ENGINE ELECTRICAL SYSTEM—Continued

DISTRIBUTOR

Make and model ---------- Delco-Remy, 1112353●
Current source ---------- Generator or battery
Breaker contact opening and nominal contact angle:
With new breaker lever --- .018-.024 --- 34°
With old breaker lever --- .015-.022 --- 39°
Breaker arm tension ---------- 17-21 oz.
Vacuum control part number ---------- 1116043
Condenser (service) part number -------- 1869704x

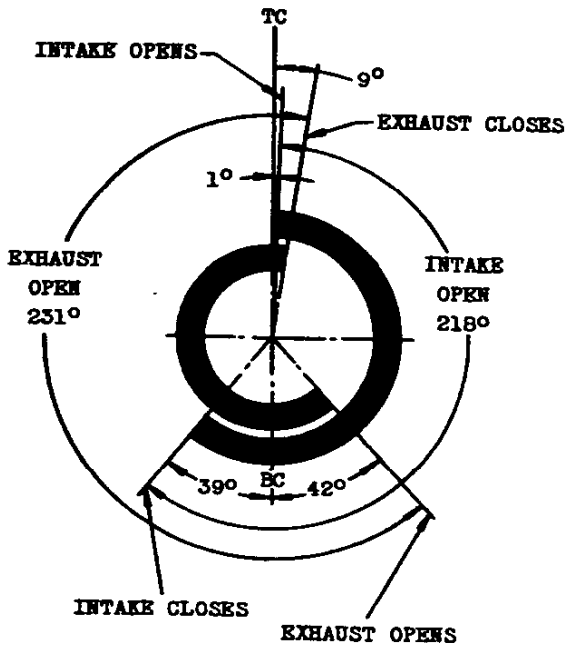
Automatic spark advance:	Advance begins	Full advance
Vacuum control	7" Hg. min.	20° at 12" Hg. min.
Centrifugal	600 RPM	32.5° to 39.5° at 3450 RPM and up.



ENGINE TIMING

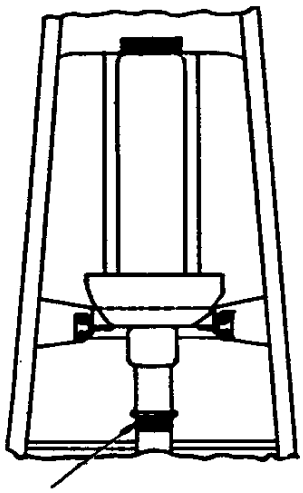
Timing spark advance (initial setting) ---- 5° BTC
Timing marks location ---------- On flywheel
Firing order ---------- 1-5-3-6-2-4

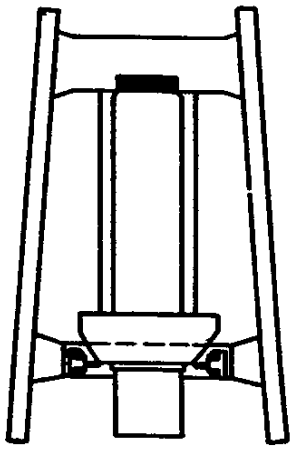
VALVE TIMING (theoretical)



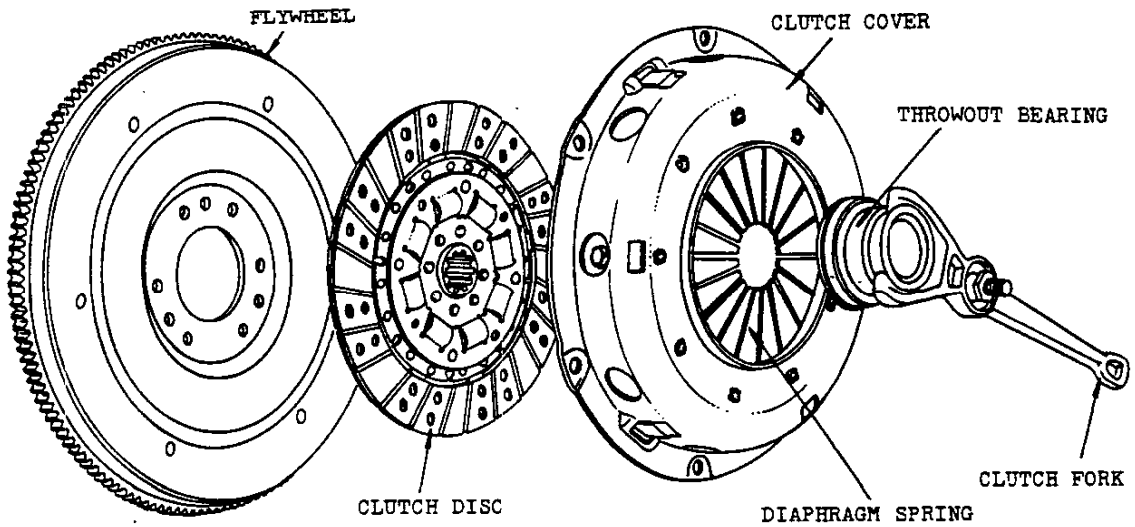
POWER PLANT MOUNTING

3100	ALL OTHER TRUCKS AND SCHOOL BUSES
TYPE: 4-POINT RUBBER (CUSHION BALANCED)	TYPE: 3-POINT RUBBER (CUSHION BALANCED)



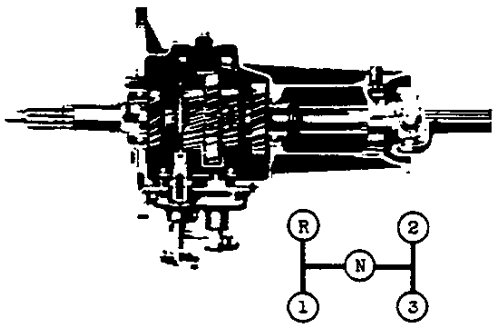


2-1-48. Revised: 11-15-48, ● - Was 1110090, x - Was 1908757.



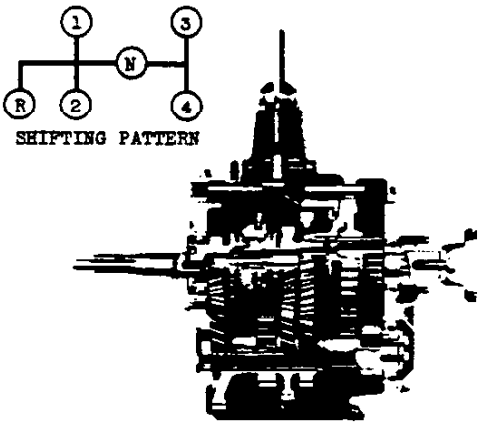
3100 SERIES REGULAR CLUTCH ILLUSTRATED

ITEM			3100		3600-3800-4000-5000-6000
			Regular clutch	RPO 227	Regular clutch
Type			Single dry plate		
Rated torque capacity			200 foot pounds		
Drive			Direct to flywheel face		
Ventilation			Vanes cast in pressure plate		
Diaphragm spring	Pressure in flat position		1100 to 1225 pounds	1175 to 1275 pounds	
	Material		Spring steel, heat treated		
	Pressure levers		18, integral with spring		
Discs	Driving		Two (flywheel and pressure plate)		
	Driven		One		
	Vibration insulation at hub		8 cushion springs	6 cushion springs	
	Facing	Material	Molded asbestos composition		
		Outside diameter	9-1/8	10-3/4	
		Inside diameter	6-1/8	7	
		Area	71.86 square inches	104.6 square inches	
		Thickness	.132-.138	.137-.143	
Bearings	Throwout (release)	Type, make, number	Special ball bearing; N.D. 909422		
		Lubrication	Packed for life		
	Pilot	Make and number	Chevrolet 412562		
		Type	Sintered graphite-bronze bushing. Oil-impregnated		
		Inside diameter	.5915-.5925		
		Outside diameter	1.0935-1.0945		
		Width	.740-.760		
		Lubrication	Self		
Controls	Clutch fork type		Drop-forged (pivot mounted on ball)		
	Pedal mounting location		On shaft, bracketed to side rail (to subframe in 5000)		
Flywheel	Material		Cast alloy iron		
	Weight (with ring gear)		30 pounds		
	Ring gear type		Steel, shrunk on		
	Ring gear teeth		139, 1/2 wide, 13.9 P.D. (9 teeth on starter pinion)		
Clutch attachment to flywheel			6 bolts	9 bolts	



SHIFTING PATTERN

3-SPEED TRANSMISSION
(TOP VIEW)

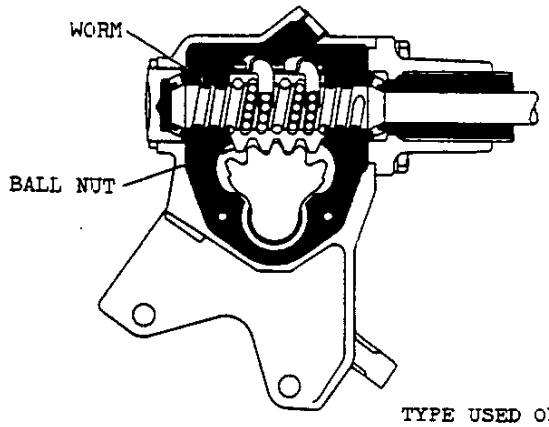


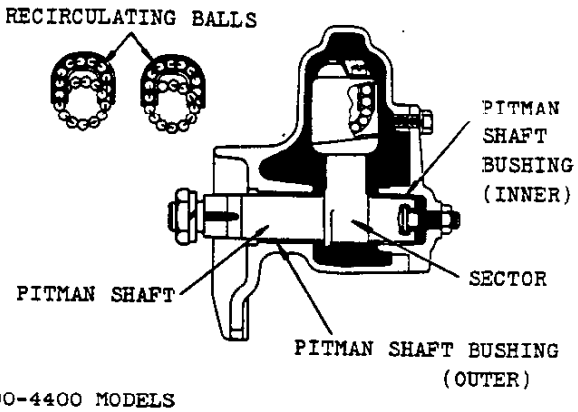
SHIFTING PATTERN

4-SPEED TRANSMISSION
(SIDE VIEW)

ITEM				3100-3600	3800-4000-5000-6000 (RPO 3100-3600)
Type				3-speed, Synchro-mesh, manual shift	4-speed, Synchro-mesh, manual shift
Gearshift control - type and location				Remote - mounted on steering column	Direct - mounted on transmission
Input torque capacity				200 foot pounds	
Gears	Type			All helical	Helical, except 1st and reverse
	Material			Forged steel, hardened	
	Synchronized speeds			2nd and 3rd	2nd, 3rd, and 4th
	Constant mesh speeds			2nd	2nd and 3rd
	Sliding gears			1st and reverse	
	Ratios	Forward	1st	2.94:1	7.06:1
			2nd	1.68:1	3.58:1
			3rd	Direct	1.71:1
			4th		Direct
		Reverse		2.94:1	6.78:1
Bearings and bushings	Reverse idler bushings		Optional materials	Rolled sheet bronze, ball-indented	Steel-backed bronze, ball-indented
				Steel-backed bronze, ball-indented	
			No. used and size	2 - .7515-.7525 I.D. x 3/4 long	2 - 1.1272-1.1282 I.D. x 1-1/8 long
	Mainshaft bearings	Front	Part no. & type	Chev. 590752, 14 individual rollers	Chev. 591442, 18 individual rollers
			Shaft dia. x bore	.6553-.6558 x 1.0315-1.0323	1.0400-1.0405 x 1.4776-1.4784
			Roller size	.1873-.1875 dia. x .512-.527 long	.2180-.2182 dia. x .735-.750 long
		Rear	Part no. & type	N.D. 954168, single row ball	N.D. 954127, single row ball
			I.D. x O.D.	.9839-.9843 x 2.4404-2.4409	1.3775-1.3780 x 3.1491-3.1496
			Width	.6643-.6693	.8218-.8268
	Transmission rear bearing support bushing		Optional materials	Rolled sheet bronze, ball-indented	
				Steel-backed bronze, ball-indented	
			Size	1.439-1.440 I.D. x .865-.885 long	
	Countershaft bearings	Front	Part no. & type	Chev. 591211, 25 individual rollers	Hyatt 142260, roller
			Shaft dia. x bore	.8737-.8747 x 1.1252-1.1262	
			Shaft dia. x O.D.		1.4979-1.4984 x 2.4409-2.4415
			Roller size	.1248-.1250 dia. x .735-.750 long	.6249-.6299 (width)
		Rear	Part no. & type	Chev. 591211, 25 individual rollers	N.D. 954164, single row ball
			Shaft dia. x bore	.9737-.8747 x 1.1252-1.1262	
			I.D. x O.D.		1.5743-1.5748 x 3.5427-3.5433
			Roller size	.1248-.1250 dia. x .735-.750 long	.9005-.9055 (width)
	Clutch gear bearing		Part no. & type	N.D. 954388, single row ball	N.D. 954358, single row ball
			I.D. x O.D.	1.3775-1.3780 x 2.8341-2.8346	1.7712-1.7717 x 3.3459-3.3465
			Width	.6643-.6693	.7430-.7480
	2nd gear bearing		Material	Gear I.D. honed. Turns on mainshaft	Steel-backed bronze, ball-indented
			Size	1.062-1.063 I.D. x 1.886-1.888 long	1.8152-1.8162 I.D. x 1.889-1.899 long
	3rd gear bearing		Material		Nickel phosphor bronze
			Size		1.6250-1.6255 I.D. x 1.839-1.841 long
Lubricant capacity				1-1/2 pints	6 pints
Power take-off provision	Type of opening and location				6-bolt SAE. Left side of transmission
	Drive gear	Type and no. of teeth			Helical, 33 teeth
		Speed			425 RPM at 1000 engine RPM

STEERING GEAR



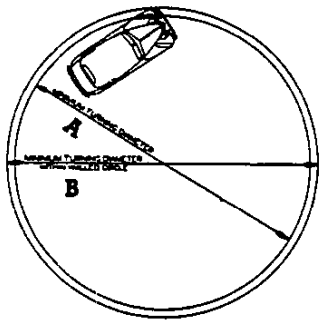


TYPE USED ON 3000-4100-4400 MODELS

ITEM			MODELS	
			3000-4100-4400	4502-5000-6000
Type			Semi-reversible	
Ratio			26.24:1	27.76:1
Gear housing mounted			On frame side member	
Worm bearings			2 Hyatt 179291 barrel roller (Assy. 11 rollers .273 x .310)	2 Hyatt 270266 barrel roller (Assy. 12 rollers .290 x .330)
Roller sector bearing			60 recirculating ball bearings 9/32 diameter (Saginaw 266800)	100 recirculating ball bearings 9/32 diameter (Saginaw 266800)
Pitman shaft bushings	Material		Cast bronze	
	Outer	Inside dia.	1.1245-1.1250	1.2495-1.2500
		Length	1-3/8	1-1/8
	Inner	Inside dia.	1.1255-1.1260	
		Length	27/32	
Pitman shaft	Diameter		1-1/8	1-1/4
	Location		Below worm	
Pitman arm type			One-piece, drop forged steel	
Main shaft diameter			3/4	13/16
Column outside diameter			1-3/4	
Steering column bearing			G.M., 147481, 23 steel balls, 1/8 diameter	
Horn cable and contact			Cable lead is attached to contact ring, which is imbedded in rubber, inside upper end of steering column	
Steering wheel	Type		3-Spoke	
	Material		Hard rubber vulcanized to steel insert	
	Diameter		18	

TURNING DIAMETERS

Nominal figures based on actual measurements●



MODELS	WHEELBASE	A (feet)		B (feet)	
		RIGHT	LEFT	RIGHT	LEFT
3100	116	39-1/2	40	42-1/2	42-1/2
3600	125-1/4	47-1/2	49-1/2	50	51-1/2
3800	137	52	52-1/2	54-1/2	55
4100		51	52-1/2	54-1/2	56
4400	161	59-1/2	59	63	62-1/2
4500		56	56	59-1/2	59-1/2
5100	110	40	40	43-1/2	43-1/2
5400	134	45-1/2	48-1/2	49	52
5700	158	54-1/2	56-1/2	58	60
6100	137	48	49-1/2	51-1/2	53
6400	161	56	56	59-1/2	59-1/2
6700	199	66-1/2	66-1/2	70	70

2-1-48. 3-17-48: ● - Actual measurements replace caculated figures.

TIRE EQUIPMENT AND GROSS VEHICLE WEIGHT

TIRE SIZE AND PLY RATING	BASE EQUIP. OR RPO θ	MODELS	GROSS VEHICLE WEIGHT	TIRE AND RIM ASSOCIATION STANDARDS							
				REAR	LOADED RADIUS ROLLED	LOADED REV. PER MILE	MAXIMUM RECOMMENDED CAPACITY	MAXIMUM RECOMMENDED PRESS. IN LB.	TUBE	VALVE	FLAP
6.00-16-6	Base	3100	4200	SINGLE	13.6	743	1065	36	6.00	15	None used
6.50-16-6	282		4500		13.9 •	728 •	1215	36	6.50		
6.70-15-6	288		4200		13.5	748	1050	30	6.70		
15-6	273		4600*		14.1	715	1500	40	7.00	150SB90°	15L
15-8	280						1670	48			
15-6	Base	3600	5200				1500	40			
15-8	280		5400				1670	48			
7.00-17-6	277		5200		15.4	655	1575	45	7.00W	76SB	17M
7.00-17-8	278		5800*				1775	55			
7.50-17-8	272				15.8	637	2100	60	7.50W		
7.00-17-6	Base	3800	5700		15.4	655	1575	45	7.00W		
7.00-17-8	278		6100				1775	55			
7.50-17-8	272		6700		15.8	637	2100	60	7.50W		
7.00-18-8	295	3802-03-08-09 -12-22-32	8800*	DUAL	16.0	630	1850	55	7.00W		18M
6.50-20-6	Base	4103-08-09 4403-08-09-18 -19-29 4502	9500 (10500 on 4502)		16.4	613	1700	50	6.50W	76-90°E-12	20K
	289	4102-12-22-32 4402-12-22-32									
6.50-20-8	286	4000					1950	65			
7.00-20-8	Base	4102-12-22-32	7500	SINGLE	16.9	596	2000	55	7.00W	76SB90°	20M
	300Ⓔ	4402-12-22-32									
	300	4000	11000* (12000* on 4502)	DUAL							
7.00-20-10	296	4102-12-22-32 4402-12-22-32	7500	SINGLE			2250	70			
7.50-20-8	304	4100-4400	12500*Ⓓ	DUAL	17.7	571	2375	60	7.50W	177SB90°	
7.50-20-10	305						2700	75			
7.50-20-8	Base	5000-5000S 6000	13000 (13500 on 6702)				2375	60			
7.50-20-10	305	6100S-6400S					2700	75			
8.25-20-10	343	5000S-6100S 6400S-6702	15000*		18.2	553	2900	65	8.25W	77SB90°	
		5000-6100-6400	16000*								
8.25-20-12	344	5000S-6100S 6400S-6702	15000*				3150	75			
		5000-6100-6400	16000*								
x9.00-20-10	312				19.3	523	3450	65	9.00W	TR175-90° C-20	20N

* - The Maximum Gross Vehicle Weight Rating as warranted by the chassis manufacturer shall include the truck chassis with lubricants, water and full tank or tanks of fuel, plus the weight of the cab or driver's compartment, body, special chassis and body equipment, and payload. A plate is supplied with each vehicle which shows the serial number and maximum Gross Vehicle Weight (GVW) when equipped with maximum tires. These GVW ratings are reduced when tires of lesser capacity are used.

θ - Base equipment includes tires of the same size and ply rating on front and rear wheels.

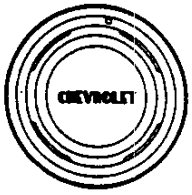
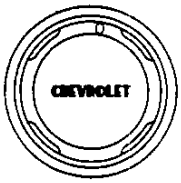
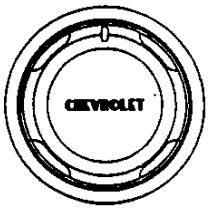
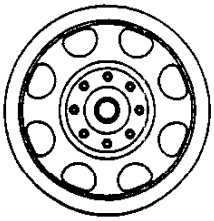
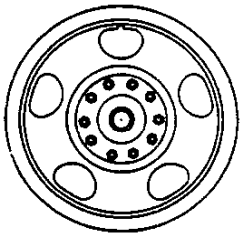
All tires shown for each series are available in any front and rear combination provided tires of a larger size or ply rating are not used on the front, and provided front, rear and spare wheels remain interchangeable.

Ⓓ - RPO 380 is a special plate which indicates 12500 GVW on 4100 and 4400 series. The following minimum equipment is required to obtain this 12500 GVW rating: RPO 212-hydraulic brake booster, RPO 267-auxiliary springs, RPO 233-heavy duty frame (on 4100 only), 7.00-20-8 pr front tires (standard or RPO 300), RPO 304-7.50-20-8 pr dual rear tires. No increase over 11000 GVW allowed without this equipment.

Ⓔ - Mud and Snow Tread.

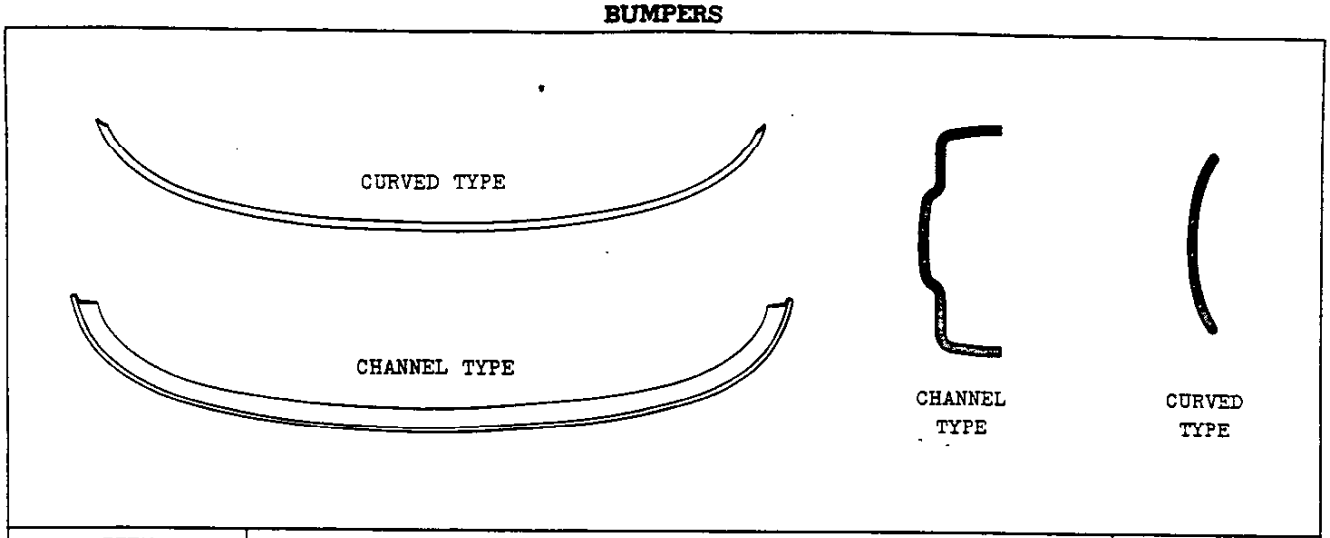
2-1-48 Revised: 3-17-48; 11-1-48, • - 6.50-16-6 pr tire data revised, x - 9.00-20-10 pr tire data added.

WHEELS

RIM SIZE	OFFSET	ATTACHMENT TO HUB	BOLT CIRCLE DIAMETER	TIRE SIZE	THICKNESS AT HUB	MODELS	REGULAR EQUIPMENT OR RPO	APPEARANCE
16x4.00E	9/16	Six 7/16-20 bolts	5-1/2	6.00-16	.125-.137	3100	Regular	
16x4.50E				6.50-16			RPO	
15x5K				6.70-15				
15x5.50F-SD	0			15	.137-.153		RPO	
	1/8				.130-.140		Regular	
17x5.0	7/16	Eight 1/2-20 bolts	6-1/2	7.00-17 7.50-17	.147-.165	3600	RPO	
				7.00-17		3800	Regular	
				7.50-17			RPO	
18x5.0	4-1/2			7.00-18	.281-.310	3802 3803 3808 3809 3812 3822 3832	RPO	
20x5.0	4-3/4	Five front and ten rear 5/8-18 bolts	7-1/4	6.50-20 7.00-20		4000	Regular and RPO	
20x5.00S	4-7/8			7.00-20 7.50-20	.295-.318	4100 4400	RPO	
20x6.0	5-3/8			7.50-20	.360-.390	5000	Regular	
				8.25-20		6000	RPO	
•20x6.00T*	5-1/2			9.00-20	.350-.375	5000 6100-6400	RPO	

* - Also used with 8.25-20 tires on front wheels when 9.00-20 tires are specified for rear wheels. 2-1-48. Revised: 8-16-48, • - 20x6.00T wheel data added.

BUMPERS



ITEM	CURVED TYPE					CHANNEL TYPE
Part number	3683350		3684823	3683347		3684096
Location	Front	Rear •	Rear •	Front	Rear	Front
Models	All 3100-3600	3105-07 -16	3102-03-04 -12; 3602 -03-04-12	All 3800	3805-07	All 4000-5000 6000
Overall width	69-7/8		70	69-7/8		75-1/16
Overall height	5-7/32					6-31/32
Gauge	.133-.147			.231-.245		.2379-.2403
Material	Spring steel					H. R. steel
Decorative finish	Chrome plated					Painted

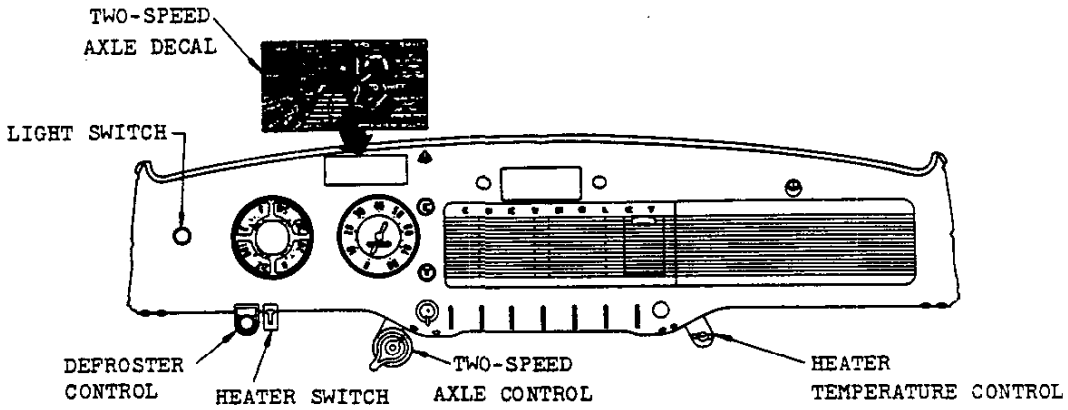
LIGHTS AND HORN

ITEM			ALL SERIES
Head-lamps	Type and location		Sealed beam (in fender)
	Sealed beam unit diameter		7.032 maximum, lens diameter 6-11/16
	Bulb	Type	2 filament
		Watts	45, upper beam; 35, lower beam (Guide)
	Dimmed by		Depressed beam, controlled by foot switch
Beam indicator	Size and candle power		#51, 1
	Number used		1
Parking lamps	Location		At sides of radiator grille between first two bars
	Bulb size and candle power		#63, 3
Combin-ation stop and tail lamp	Regular	Two-unit bodies	One at left side of rear with two #63-3 c.p. bulbs
		Panel	One on left rear door with one #1154-21 & 3 c.p. bulb
		Canopy & Carryall	One on end gate with one #87-15 c.p. and one #63-3 c.p. bulb
	RPO State of Wash.	Panel, Canopy and Carryall	Two in addition to regular one, mounted at rear of body side panels with a 2-filament #1154-21 & 3 c.p. bulb in each
	Stop lamp		Mechanical, on toe board
Rear license bulb size and candle power			See "Tail and stop lamp"
Instrument cluster	Number of bulbs		4
	Size and candle power		#55, 2
Ignition lock lamp	Bulb size and candle power		#55, 2
Dome lamp	Used with		All except cowl models
	Bulb size and candle power		#87, 15
	Switch location		On dome lamp
Fuse	Type, amperage & number used		SFE cartridge, glass enclosed, 20 Amp. - 5 and 1 spare
	Location		In fuse block assembly, on front of dash
Horn	Number used. Make and type		One - Delco-Remy, vibrator
	Ampere draw		10
	Location		Left side of engine on intake manifold

2-1-48. 3-17-48: • - Revised to have one face bar for all chassis and pick-up models.

INSTRUMENTS

MAKE: AC Spark Plug. TYPE: Fuel gauge and battery charge indicator are the electric type; heat indicator and oil gauge are the pressure type. The speedometer is driven by a flexible shaft.



SPEEDOMETER GEARS

ITEM		MODELS							
		3100 - 3600			3800	4000		5000 - 6000	
		With regular equipment	With RPO 318 four-speed transmission		With regular equipment	With RPO 204 5.43:1 ratio rear axle	With regular equipment	With regular equipment	With RPO 202 two-speed rear axle*
		3600	3100	3600					
Pitch	Drive	30.000	18.629	22					
	Driven			22.403					
Teeth	Drive	6	4						
	Driven	19	12	13			15	14	14 or 13 θ

* - Speedometer adapter mounted at back of speedometer and controlled by two-speed axle shift lever has ratios of 1:1 and 1:.750, used in combination with regular speedometer gears.

θ - 13 with 8.25-20 tires.

SPEEDOMETER GEAR ADAPTERS

The following speedometer gear adapters are available through the Service Department for correction of speedometer and odometer errors that sometimes occur when combinations of tires, transmissions, and rear axles, other than standard, are specified.

Service Package Number	1565812	1565813	1565814
Gear Ratio	17:16	17:15	16:17

TOOLS

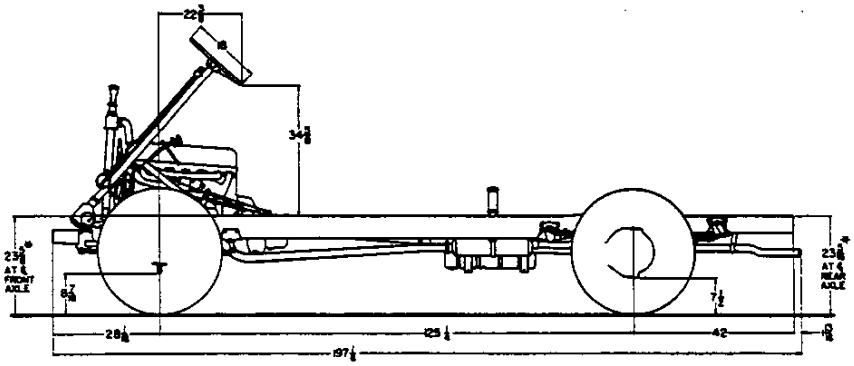
ITEM		MODELS			
		3100	3600	3800	4000-5000-6000
Jack	Capacity (pounds)	2500		3000	7000
	Raised height	15-1/8		16	18-1/8
	Lowered height	6-1/2		7-1/4	9
Tire changing iron		With RPO 273	All		
Lock for spare tire		3102-03-04 -07-12-22-32	3600	On 3807 only	Used with RPO 215 back-of-cab wheel carrier.
Other tools		Wrenches-spark plug, wheel, open end (3), tire lock (3107-3807 only). Pliers-combination-6" Screw driver-round shank-5-1/4" Hammer-ball peen-10 ounce Jack handle-use tire changing iron for all 4000-5000-6000			
Tool bag		All models. Cotton duck material.			

FORWARD CONTROL CHASSIS

Supplementing the data given in the preceding sections of this book, the following information shows those specifications that are peculiar to the Forward Control Chassis, Models 3742 and 3942. Any specifications for these models which do not appear in this supplement, are the same as for Series 3600 and 3800 trucks, respectively, and can be found elsewhere in the book.

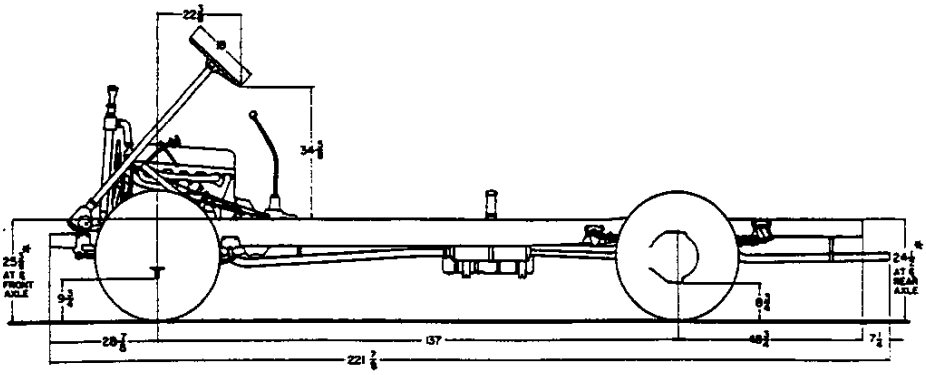
CHASSIS DIMENSIONS

3742 3/4 TON FORWARD CONTROL CHASSIS



* - Loaded height with 15-6 pr tires

3942 1 TON FORWARD CONTROL CHASSIS



* - Loaded height with 7.00-17-6 pr tires

CHASSIS TREADS AND OVERALL WIDTHS

TIRES	MODELS	FRONT WHEEL TREAD	OVER FRONT TIRES	OVER WHEEL HUBS		REAR WHEEL TREAD			OVER REAR TIRES
				FRONT	REAR	INNER	DUAL MEAN	OUTER	
15"	3742	61-15/16	69-1/2	72-3/8	71-11/16	62-3/8			70
7.00-17	3742 - 3942	61-3/16	68-3/4	71-3/4	72	61-3/4			69-5/16
7.50-17		61-1/8	69-1/8						69-3/4
7.00-18	3942	61-7/8	69-7/16	73-5/16	70-15/16	54-1/4	63-1/4	72-1/4	79-13/16

CONTINUED

ITEM			3742	3942
Regular production options	4-speed transmission		318G, 15" tires; 318F, 17" tires	
	Tires	15"-6 pr spare	273M	
		4, 15"-8 pr	280J (280K spare)	
		4,7.00-17-6 pr	277X;277W,4-speed trans.(277G spare)	277G spare
		4,7.00-17-8 pr	278N;278K,4-speed trans.(278L spare)	278M (278L spare)
		4,7.50-17-8 pr	272M;272L,4-speed trans.(272K spare)	272J (272K spare)
		6,7.00-18-8 pr		295D (295E spare)
	Dbl-act.shock absorb		200W	200X; 200Y with rear stabilizer
	Wheel carrier		384A 15" tires, 384B 17" tires	384C 17" tires, 384D 18" tires
	Front bumper		367A	
Model identification			See page 51	
Serial number prefixes (See p 58)	Vehicle		FT	FU
	Engine	Flint	FCF	FCF
		Tonawanda	FCS	FCS
	Trans-mission	Saginaw	FQ	RD
		Muncie	FR	RE
		Toledo	FS	RF
	Rear axle	Detroit	FN	Regular - RC; RPO - RA
		Buffalo	FP	Regular - RD; RPO - RB
Vehicle weights (See p 59)	Shipping	Front	Not available	
		Rear		
		Total		
	Curb	Front		
		Rear		
		Total		
	Gross (See p 100)		6200-7000	6700-10000
Frame	Overall length		195-5/16	214-5/8
Front axle (See p 77)	Capacity (pounds)		3500	
	I-beam		Same as 6000 series	
	Wheel alignment		Same as 6000 except caster	
	Caster		2° 41' - 3° 41'	1° 43' - 2° 43'
Front springs (See p 78)	Type		8-leaf semi-elliptic	
	Leaves, thickness		.291 each; total 2.328	
	Load in pounds at opening height		1275 @ 1	
	Average rate of deflection (lb./inch)		575	
	Capacity at ground		1700 pounds	
	Length x width		40 x 2	
	Clips		Bolt type, at #1, #2, and #4 locations	
Front spring mountings (See p 78)	Shackle end	Located at	Rear	
		Type	Threaded "H"	
		Pin dia	5/8	
	Fixed end	Bushing	Plain,7/8 O.D.	
		Bolt size	11/16 O.D. x 3-7/16,Hardened steel	
Front shock absorbers (See p 78)		Regular	Hydraulic single-acting, 1-1/2 dia. piston	
		RPO	Hydraulic double-acting, 1-1/2 dia. piston	
Front ride stabilizer			Attached to front springs and front ends of frame side members	
Rear axle (See p 79)			Same as 3600 except ratio (5.14:1)	Same as 3800
Rear springs (See p 81)	Type		8-leaf semi-elliptic	RPO, 11-leaf semi-elliptic
	Leaves, thickness		1 and 2 - .323, 3 to 8 - .291; total - 2.392	.323 each; total - 3.553
	Load in pounds at opening height		1825 @ 25/32	2900 @ 5/32
	Average rate of deflection (lb./inch)		400	690
	Capacity at ground		2250 pounds	3400 pounds
	Length x width		46 x 2	
	Clips		Bolt type,at #1, #3, and #4 locations	
	Centers		41-1/2, measured center to center of spring seats on axle housing	

CONTINUED

7-1-48. Revised: 7-26-48, •-line added.

FORWARD CONTROL DELIVERY CHASSIS

●Due to extensive changes in specifications, pages 104, 105, and 106 are deleted. They should be removed and destroyed, and replaced by this single page. New pages covering this model will be released in the near future.

ITEM				3742	3942
Rear shock absorbers	Regular			Hyd. single-acting, 1-1/2 dia piston	None
	RPO	Type and size		Hydraulic double-acting, 1-1/2 dia piston	
		Stabilizer		None	With or without ride stabilizer
Parking brake (See p 85)	Type			Pedal-operated	
	Mounting			On shaft through bracket to underside of toe pan	
	Location of cables			Outside of frame	
Service brakes (See p 85)	Drums	Dia	Front	12	
			Rear	12	14
		Total area		302 sq in.	371 sq in.
	Linings	Width	Front	2	
			Rear	2	2-1/2
		Effect. area		202 sq in.	248 sq in.
		Attachment		Bonded	
	Braking pressure			50% front, 50% rear	
	Wheel cylinder dia			1-3/8	
Engine (See pp 86-96)	Horse power	Gross		Not available	
		Net			
	Torque (ft lb)	Gross			
		Net			
	Radiator filler	Extension		Steel tube and rubber hose	
		Location		2-1/4 left of core centerline	
	Fuel system	Fuel tank	Location	Outside of right side member	
			Capacity	16 gallons	
		Carburetor		Same as Series 5000	
		Air cleaner		AC; special, with flame arrester	
	Oil filler			Same as Series 3100	
	Crankcase ventilation		Type	Closed, vacuum-operated	
			Inlet	Louvers in top of valve rocker cover	
			Outlet	Suction tube from oil filler and ventilator body to inlet manifold	
	Electrical system		Starter	Solenoid, operated by push button on instrument panel	
			Battery	Mounted on frame side member at right side of engine	
Transmission (See p 98)	Regular	Type		3-speed, Synchro-mesh	4-speed, Synchro-mesh
		Control		Remote; steering column-mounted	Direct; transmission-mounted
	RPO	Type		4-speed, Synchro-mesh	
		Control		Direct; transmission-mounted	
Steering gear (See p 99)	Mounting			Trunnion and bracket	
	Ratio			19.8:1	
	Turning dia in feet	Minimum		Right 42-1/2; left 43-1/2	Right 48; left 50
		Within walled circle		Right 45-1/2; left 46-1/2	Right 50-1/2; left 52-1/2
Tire equipment and gross vehicle weights * (See p 100)	15"-6 pr	Front and single rear		Base, 6200 lb GVW	
	15"-8 pr			RPO, 6400 lb GVW	
	7.00-17-6 pr			RPO, 6600 lb GVW	Base, 6700 lb GVW
	7.00-17-8 pr			RPO, 7000 lb GVW (maximum)	RPO, 7100 lb GVW Ⓓ
	7.50-17-8 pr			RPO, 7000 lb GVW (maximum)	RPO, 7500 lb GVW θ
	7.00-18-8 pr	Frt. & dual rr			RPO, 10000 lb GVW (maximum) θ
Spare wheel carrier	RPO			Monorail type for 15 and 17-inch tires, includes spare wheel	Monorail type for 17-inch tires, includes spare wheel
	RPO				Strap type for 18-inch tires, includes spare wheel
Bumper	RPO			Front only, channel type, same as Series 6000	

* - Spare wheel carrier must be specified whenever spare tire is specified.

θ - Double-acting shock absorbers front and rear, and rear ride stabilizer must be specified whenever 7.50-17 or 7.00-18 tires are specified.

Ⓓ - Double-acting shock absorbers front and rear must be specified when 7.00-17-8 pr tires are specified.

CONTINUED

PARTS SHIPPED LOOSE

Head lamps and head lamp doors	Voltage and current regulator	Horn and bracket
Head lamp wire junction block	Fuses, fuse block, and cover	Oil pressure gauge pipes
Parking lamps	Stop lamp switch	Hood emblem
Tail and stop lamp	Dimmer switch	Accelerator bell crank bracket
Tail and stop lamp extension wire	Lighting switch and rod	Parking brake control parts
Front wiring harness	Instrument cluster	Tire carrier lock parts (RPO)
Body wiring harness	Speedometer head	Tire carrier hook bolt (RPO)
Light bulbs	Speedometer flexible shaft	Tools, including jack

Miscellaneous attaching parts are also shipped loose

PARTS TEMPORARILY MOUNTED

In addition to parts shipped loose, the following parts are mounted on a temporary wooden frame which also supports the steering column, the accelerator pedal, and the radiator core:

Choke control, throttle control, starter push switch, ignition switch, and identification plate.

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