

Series F-5

SCHOOL BUS SAFETY CHASSIS

MAX. G.V.W.
158" W.B.—12,000 lbs.
194" W.B.—15,000 lbs.



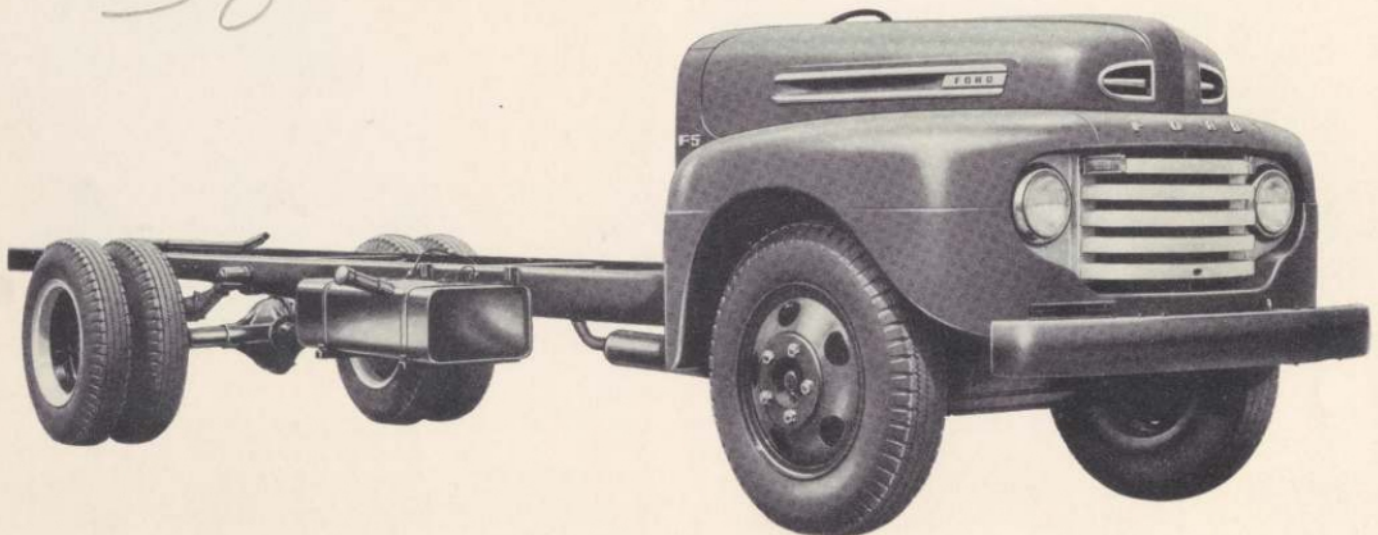
Bonus * *Built*



SCHOOL BUS SAFETY

*BONUS: "Something given in addition to what is usual or strictly due"—Webster

30



SAFE TRANSPORT FOR PRECIOUS CARGO!

For ready-to-go reliability and restful low-cost transportation, choose the Bonus Built Ford F-5 School Bus Safety Chassis!

NEW FORD SCHOOL BUS SAFETY CHASSIS are designed to accommodate bodies ranging from 14 ft. to 22 ft., seating from 30 to 48 passengers. With either the new Rouge 239 V-8 or the Rouge 226 six-cylinder engine, the Safety Chassis offers reliability and performance to spare. It will do easily, what has to be done in school bus service.

Safety is the keynote of Ford construction. The School Bus Safety Chassis is built to meet or exceed

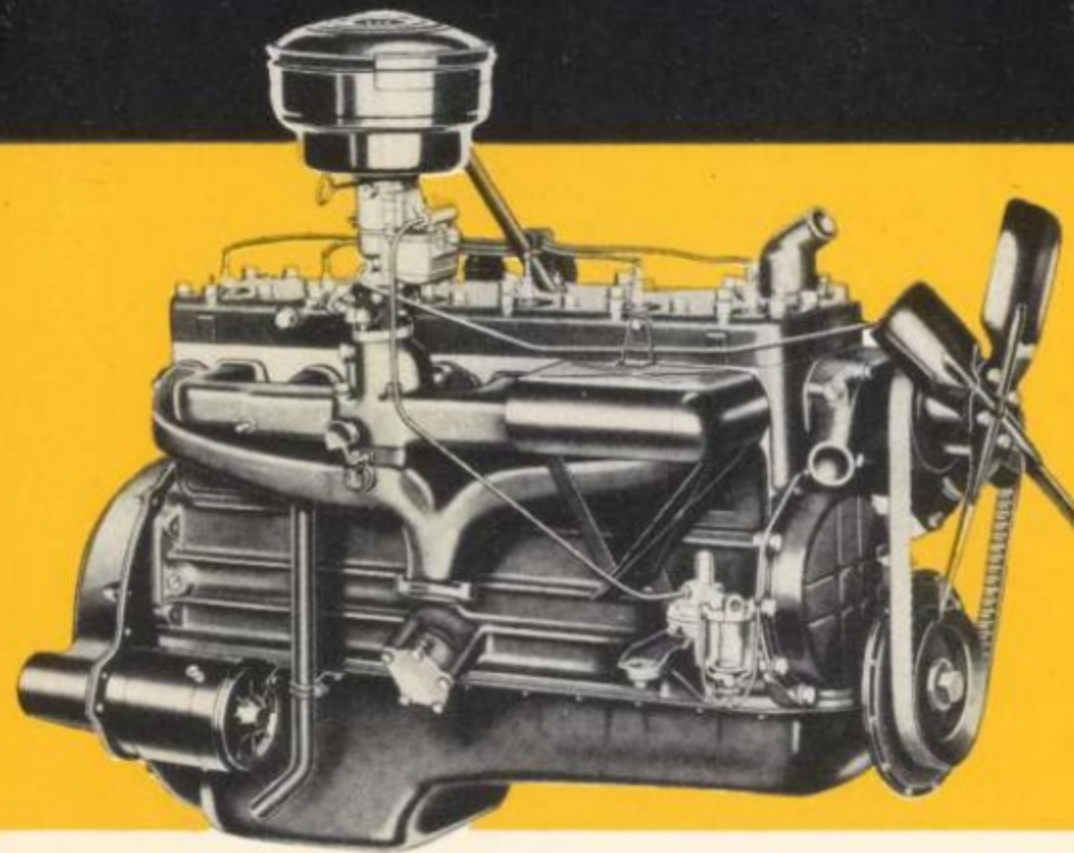
standards set by the National Education Association. Responsive engine power. Powerful brakes, extra large 15-inch by 3½-inch rear; booster standard on 194" wb. Husky drive shaft guards. Extended tail pipe. Heat insulated gas tank. Independently operated propeller shaft hand brake with safety shield. Easily actuated clutch, brake and steering controls. These and many other features provide safety second to none in the school bus field.

EVERY IMPORTANT BUILDER OF SCHOOL BUS BODIES, BUILDS BODIES FOR FORD CHASSIS.

BUILT STRONGER TO LAST LONGER

FORD Division of FORD MOTOR COMPANY

YOUR CHOICE OF 2 GREAT FORD BONUS BUILT TRUCK ENGINES

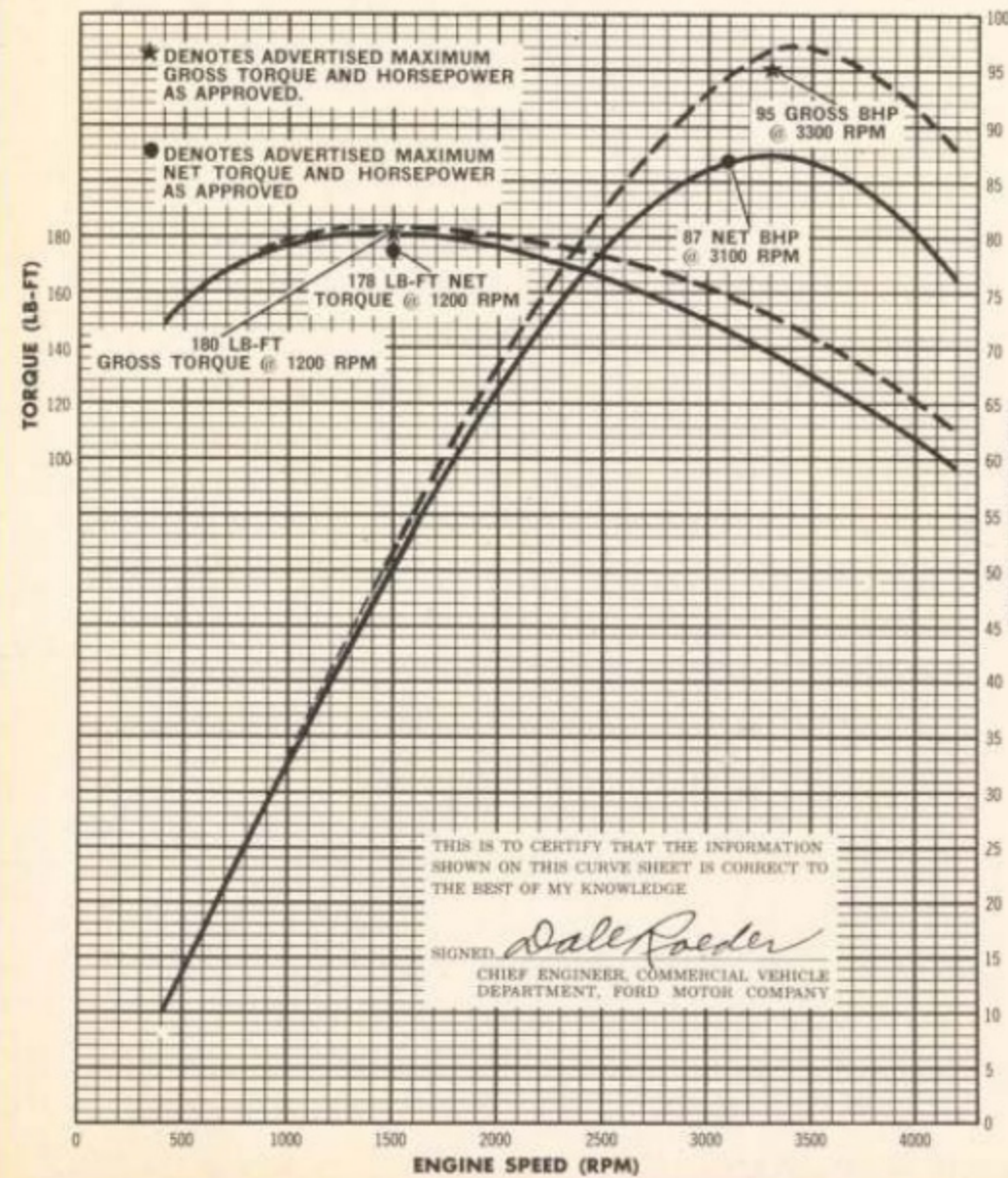


ROUGE 226 TRUCK SIX

CERTIFIED ENGINE POWER CURVES

Name and Model—Ford 7HT. No. of Cyls.—6. Bore—3.3". Stroke—4.4". Displacement—226. Compr. Ratio—6.8 to 1. Type of Carburetion—Down-draft. Fuel—M534B. Octane No. 72-74. Corrected to 29.92" HG. @ 60° F.

--- Gross Output—Bare Engine Without Fan
 — Net Output—Engine with Generator, 7HT-9600 Air Cleaner, 2GT-8600-C (17") Fan and 7HC-5230-C Muffler with 6 ft. Tailpipe (as installed).

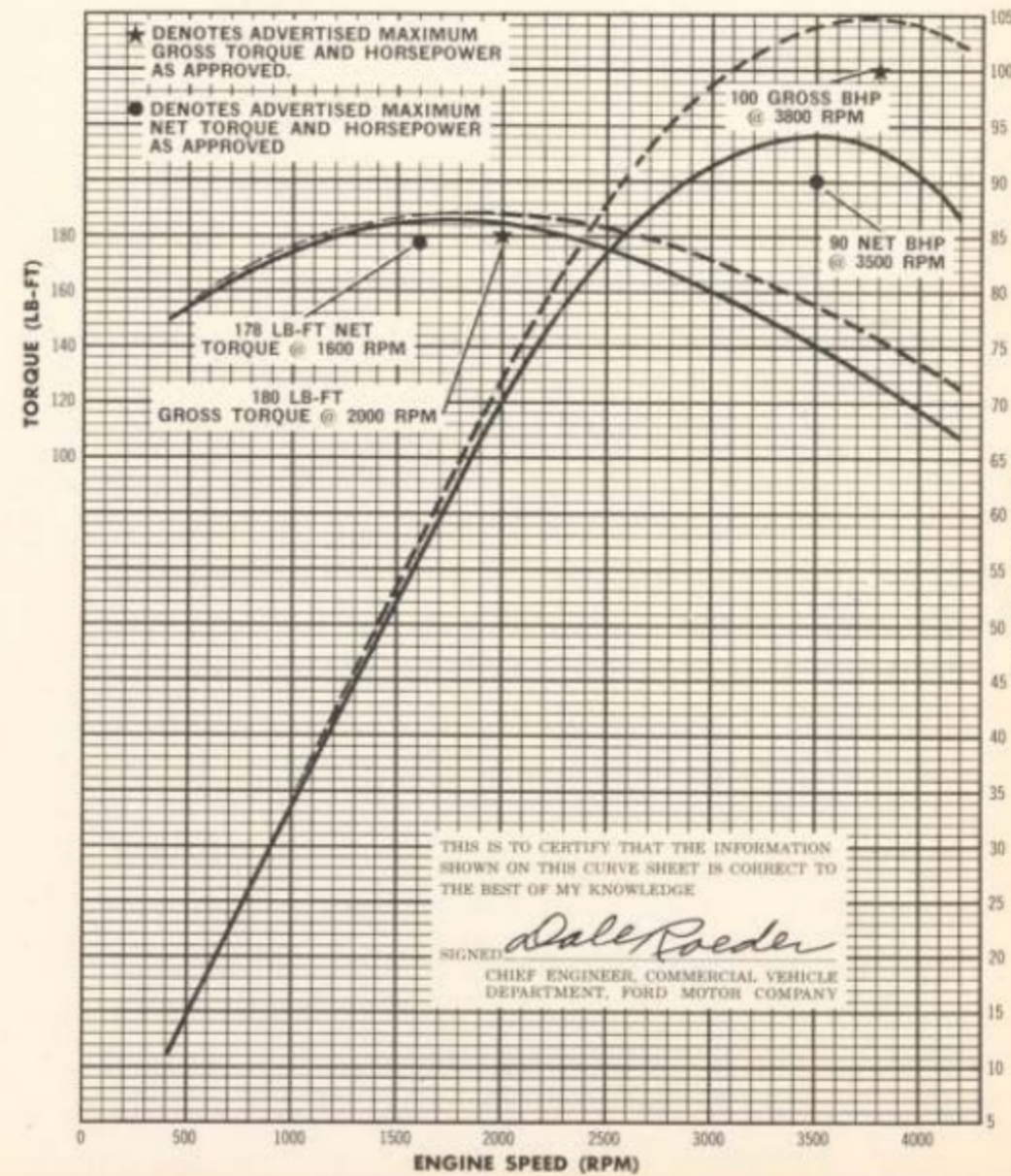


ROUGE 239 TRUCK V-8

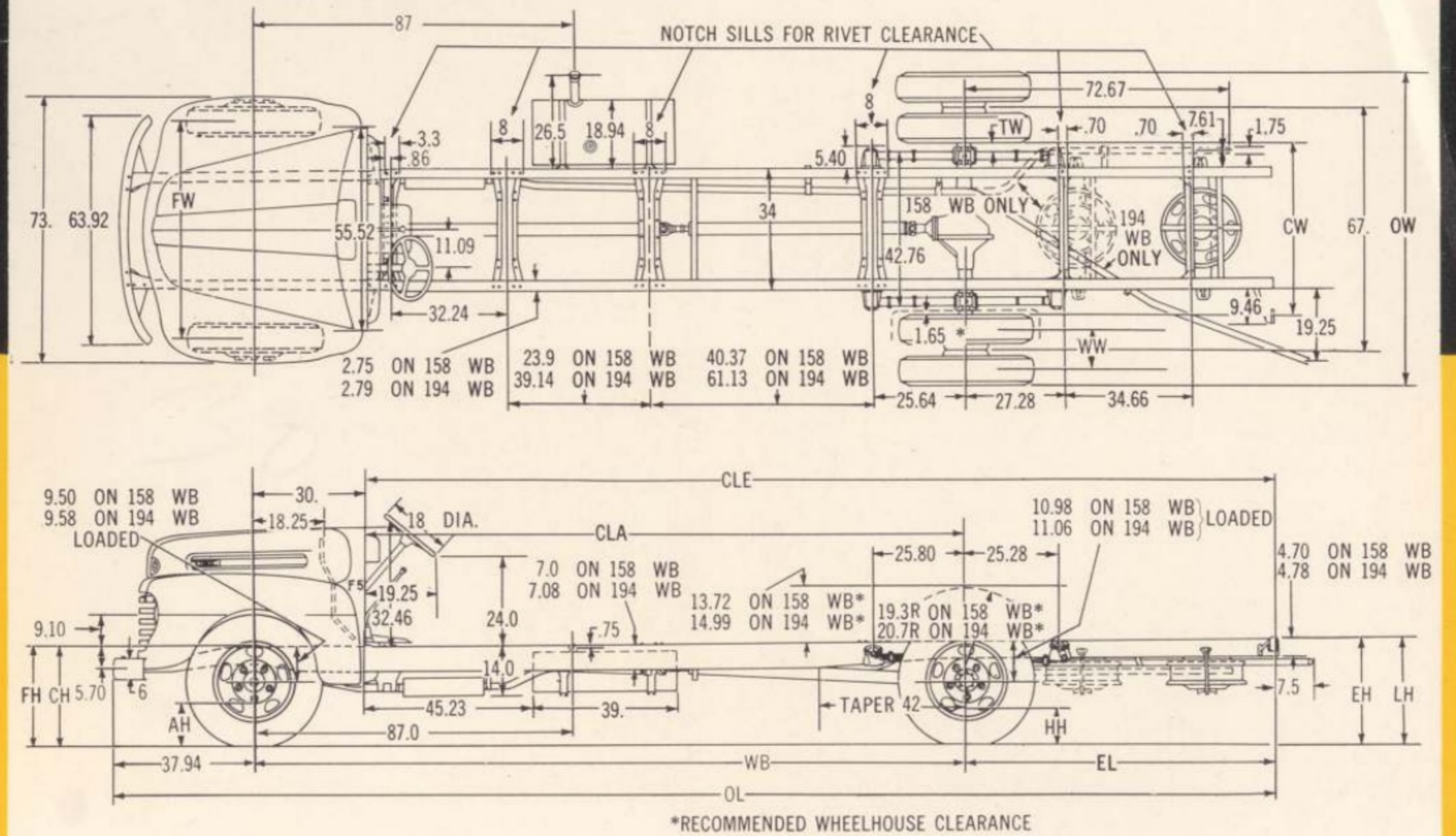
CERTIFIED ENGINE POWER CURVES

Name and Model—Ford 8RT. No. of Cyls.—8. Bore—3 3/4". Stroke—3 1/4". Displacement—239. Compr. Ratio—6.8 to 1. Type of Carburetion—Down-draft. Fuel—M534B. Octane No. 72-74. Corrected to 29.92" HG. @ 60° F. and .39" HG. Water Vapor.

--- Gross Output—Bare Engine Without Fan
 — Net Output—Engine With Generator, 7RT-9600-C Air Cleaner, 59T-8600-A (4 Blade) Fan and 8RT-5230-C Muffler with 6 ft. Tailpipe (as installed).



SERIES F-5 SCHOOL BUS CHASSIS WITH COWL



All dimensions given in inches (unless marked) and all weights are in pounds

FRONT VARIABLE DIMENSIONS

Front Tires Size and Ply Rating	WIDTH		HEIGHT			
	Rim	Wheel Dish	FW Front Tread	FH Frame Height Light	CH Frame Height Loaded	AH Axle Clearance
158" WB.	6.50-20 6	5.0 4.75	60.03	27.16	25.8	11.24
	7.00-20 8	5.0 4.75	60.03	27.66	26.3	11.74
194" WB.	7.50-20 8	6.0 5.50	58.51	28.39	27.08	12.44
	8.25-20 10	6.0 5.50	58.51	29.09	27.78	13.14

Front Spring Centers—29.0

REAR VARIABLE DIMENSIONS

Dual Rear Tires Size and Ply Rating	WIDTH						HEIGHT				
	Rim	Wheel Dish	Tire Section Dia.	Dual Tire Spacing	WW Width Between Rear Tires	CW Width Overall Rear Tires	OW Width Overall Rear Tires	TW Clearance Between Tire & Spring	Static Loaded Tire Radius	EH Frame Height Light	LH Frame Height Loaded
158" WB.	6.50-20 6	5.0 4.75	7.24	9.5	50.26	83.74	3.75	16.3	31.90	27.28	8.74
	7.00-20 8	5.0 4.75	7.61	9.5	49.89	84.11	3.56	16.8	32.40	27.78	9.24
194" WB.	7.50-20 8	6.0 5.50	8.52	11.0	47.48	86.52	2.36	17.5	33.19	28.56	9.94
	8.25-20 10	6.0 5.50	8.95	11.0	47.05	86.95	2.15	18.2	33.89	29.26	10.64

Rear Spring Centers—40.25 *Deduct 0.69 for 2-Speed Axle

CHASSIS WITH COWL WEIGHTS

WB Wheel Base	Curb Weight with Tires Shown Below—Front and Dual Rear†			
	Size and Ply Rating	Front	Rear	Total
158	6.50-20 6	2122	1923	4045
	7.00-20 8	2140	1960	4100
194	7.50-20 8	2300	2150	4450
	8.25-20 10	2335	2220	4555

†With V-8 engine; for Six cyl. engine deduct 40 lbs. from "Front" and "Total" weights. For 2-speed axle add 61 lbs. to "Rear" and "Total" weights. Curb weight is weight of empty vehicle ready to drive with fuel tank, cooling system and crankcase filled; tools, spare wheel and all other equipment specified as standard. For dry weight—without fuel and water—deduct 225 lbs. from "Total" weights.

CHASSIS LENGTH DIMENSIONS

WB Wheel Base	CLA Cowl to C/L Rear Axle	CLE Cowl to End of Frame	EL C L Axle to End of Frame	OL Overall Length
158	128	201	73	268.94
194	164	249	85	316.94

SERIES F-5 SCHOOL BUS CHASSIS SPECIFICATIONS

MAXIMUM GROSS VEHICLE WEIGHT: 158-INCH WHEELBASE—12,000 POUNDS; 194-INCH WHEELBASE—15,000 POUNDS.

AXLE, FRONT

Capacity—lbs.	4500
Type	Reverse Elliott Modified I-Beam
Material	Heat-Treated Alloy Steel Forging
Size (Height x Width x Web)—in.	2.50 x 2.0 x 0.33
Thrust Bearing	Tapered Roller or Anti-Friction Ball
Wheel Bearings	High Capacity, Dual Opposed, Adjustable Tapered Roller
Tie Rod	Ball Stud and Socket, Spring Loaded for Automatic Take-up of Wear, Equipped with Rubber Dust Shields

AXLE, REAR

Capacity—lbs.	10,800
Type	Single Reduction—Spiral Bevel—Full-Floating
Housing—Center—Type	Split
Pinion—Mounting—Drive End Type	Straddle—10-Spline
Ring Gear Thrust Plate	Fixed Shoe
Differential	4-Pinion
Side and Pinion Gear Thrust Washers	Steel
Pinion Shaft Front Bearing	Dual Opposed Tapered Roller
Pinion Shaft Rear Bearing	Straight Roller
Differential Side Bearings	Tapered Roller
Axle Shaft Material	Forged, Special Manganese Steel
Axle Shaft Diameter at Spline—in.	1.75
Wheel Bearings	High Capacity, Dual Opposed, Adjustable Tapered Roller
Number Wedge-type Driving Dowels—Each Hub	8
Lubricant Capacity—pints	5
Axle Ratio—Standard	6.67 to 1
Optional	5.14 to 1 or 5.83 to 1
Optional Axle—Type	Two-speed Planet, Full-Floating
Capacity—lbs.	12,000
Ratios	5.83 to 1 (High)—8.11 to 1 (Low)

SERVICE BRAKES

Type	Two-Shoe, Double Anchor
Actuation—185-inch Wheelbase	Hydraulic
194-inch Wheelbase	Vacuum Power-operated Hydraulic
Front Brake (Drum Diam. x Lining Width—Thickness)—in.	14 x 2— $\frac{1}{4}$
Rear Brake (Drum Diam. x Lining Width—Thickness)—in.	15 x 3.5— $\frac{1}{2}$
Total Area—sq. in.: Lining—Drum	302—506
Drums—Type	Demountable
Material	Composite—Cast Iron Fused to Steel Back
Booster—194-inch Wheelbase	Single-unit combining Power Chamber
	Hydraulic Vacuum Valve and Slave Cylinder
Effective Diaphragm Diameter—in.	7 $\frac{1}{2}$

HAND BRAKE

Type	Drum and Contracting Band, Spring Loaded, with Safety Shield
Location	Rear of Transmission on Drive Line
Size (Drum Diam. x Lining Width—Thickness)—in.	7.81 x 2.5— $\frac{1}{4}$
Total Lining Area—sq. in.	61.5

BUMPER

Type	Curved, Truck-Type-Channel
Mounting	Bolted Direct to Front of Frame Side Rails

CLUTCH

Type	Bus Type Gyro-Grip, Semi-Centrifugal Single Plate
Diameter, Outside—in.	11
Total Frictional Area—sq. in.	123.7
Cover Plate	Ventilated Type
Pressure Plate	Cast Iron
Clutch Disc	Cushioned Hub with Vibration Damper
Release Bearing	Sealed Ball, Pre-Lubricated
Pilot Bearing	Copper Graphite Bushing
Attachment—Levers to Pressure Plate	Needle Roller Bearings
Clutch Plate Pressure, lbs.: at Zero Speed—at 3000 RPM	1224—1619
Pedal Pressure, lbs.: At Zero Speed—at 3000 RPM	36—46

COOLING SYSTEM

Capacity—qts.: Six	18
V-8	23
Radiator	Flat Tube and Fin—Pressure Cap
Thermostat(s)	In Engine Water Outlet(s)
Fan, Diameter—in.: Six	17—4-Blade
V-8	18 $\frac{1}{2}$ —4-Blade

DRIVE LINE

Type	Hotchkiss, Straight Line Drive
Propeller Shafts—Number	Two, Tubular, Forged Steel Ends
Diameter, —158" wb.	2.5
194" wb.	3.5
Protective Guards, Number and Size—in.	Two—1 $\frac{1}{4}$ x $\frac{1}{4}$
Universal Joints—Number, Type	Three, Needle Roller Bearing
Center Bearing	Rubber Encased Ball Type

ELECTRICAL SYSTEM

Battery	Heavy Duty 6-Volt, 17-Plate, 120-Amp. Hr. Capacity
Generator	35 Amp., 250 Watts, Air Cooled, Shunt Wound, External Voltage and Current Regulated
Ignition	Loadomatic Vacuum Controlled System, Fully Automatic Distributor; Metal-Clad Coil; Open Wiring in Rubber Grommets
Head Lights	Sealed Beam, Foot-Switch Beam Control
Starter	High Torque, Automatic Engagement
	Solenoid Switch, Push Button Control
Parking Lights; Left-hand Combination Stop and Tail Light; Instrument Lights; Ignition Switch with Key Lock; Circuit Breakers; Voltage Regulator.	

ENGINES

	Truck Six	Truck V-8
No. Cylinders—Bore and Stroke, in.	6—3.3 x 4.4	8—3 $\frac{1}{2}$ x 3 $\frac{3}{4}$
Displacement—cu. in.	226	239
Taxable HP Rating (N.A.C.C.)	26.1	32.5
Max. Brake Horsepower—RPM	95 @ 3300	100 @ 3800
Max. Torque—Lbs.-Ft.—RPM	180 @ 1200	180 @ 2000
Compression Ratio	6.8 to 1	6.8 to 1

FRAME

Type	Heavy Duty Double Channel
Side Rail—Type	Tapered Channel Section
Reinforcement—Type	Specially Formed Channel, Inside Side Rails*
Cross Members—Type	Flanged "U" type with Alligator Jaw and Channel Sections
Wheelbase	158" 194"
Side Rail—Max. Section—in.	7.0 x 2.75 x 0.21 7.08 x 2.79 x 0.25
Reinforcement—Max. Section—in.	6.58 x 2.21 x 0.125 6.58 x 2.21 x 0.125
Section Modulus	7.63 8.65
Number of Cross Members	7 7

*Channel reinforcements extend from rear brackets of front springs to front brackets of rear springs.

FUEL SYSTEM

Carburetor	Downdraft
Air Cleaner	Heavy Duty Oil Bath, One Qt. Capacity
Fuel Pump and Filter	Diaphragm Type, Driven from Camshaft
Fuel Tank	30-Gal. Outside Right Frame Rail, with Metal Exhaust Heat Insulator
Fuel Filler	Easy-On Cap on Top of Tank

LUBRICATION

Engine	Full Pressure Feed to All Main Crankpin and Camshaft Bearings
Oil Filter	Replaceable Cartridge Type
Oil Pan	Clean-Out Plate in Bottom of Pan
Crankcase Capacity	6 Qts. (dry); 5 Qts. (refill)
Chassis	Fittings for Pressure Lubrication

SPRINGS—Semi-Elliptic, Ford Alloy Steel

	Front	Rear
Type	Single Stage	Progressive
Wheelbase	158" 194"	Both Wbs.
Length x Width—in.	36 x 2 36 x 2	52 x 2 $\frac{1}{2}$
Number of Leaves	11 12	13
Deflection Rate—lbs. per in.	673 845	836 and 1104
Capacity (at Normal Def.) per Spring, lbs.	1375 1975	4300

STEERING

Type	Worm and Dual Row Needle Bearing Roller
Ratio	20.4 to 1
Wheel	18-in. Dia., 3-Spoke
Wheelbase	158" 194"
Turning Radius—ft.: Right	27 33 $\frac{1}{2}$
Left	30 35 $\frac{1}{2}$

TRANSMISSION

Type	4-Speed, Selective Sliding Spur Gear
Lubricant Capacity—pints	5
Gear Positions	First Second Third High Reverse
Ratio (to 1)	6.40 3.09 1.69 1.00 7.83

WHEELS AND TIRES

Wheels	7—20-inch Tapered Steel Disc; 5 Hole, 8-inch Dia. Bolt Circle
Wheelbase	158" 194"
Tires—Standard Size—Front and Dual Rear	6.50-20 6-p.r. 7.50-20 8-p.r.
Rims—Standard Size	20 x 5.0 20 x 6.0
Type	RH 5° 2-Piece RH 5° 2-Piece Advanced Advanced

CHASSIS EQUIPMENT included as standard, in addition to items specified above:

Hood, Cowl and Dash Assembly	Single Electric Horn
Front Fenders	Treadle Type Accelerator Pedal
Center Cowl Ventilator	Extended Tail Pipe Beyond End of Frame
Steel Toe Boards	Spare Wheel
Instrument Panel	Spare Tire Carrier under Frame
Speedometer with Odometer	Front and Rear License Brackets
Water Temperature Gage	Mechanical Jack (3-ton Capacity)
Oil Pressure Gage	Standard Tools in Tool Bag, including—pliers; screwdriver; rear wheel bearing nut wrench; rim tool and tire iron; spark plug and cylinder head bolt wrench; wheel stud nut wrench and handle; jack handle and tire iron; tire carrier wrench.
Fuel Gage	
Charge Indicator	
Ash Receptacle	
Dispatch Box	
Choke Button	
Light Switch	

OPTIONAL EQUIPMENT (Installed in Production) includes:

5.83 to 1 Axle Ratio	Heavy Duty Fan
5.14 to 1 Axle Ratio	Right Hand Tail Light
2-Speed Rear Axle	Tires: 7.00-20 8-ply rating Front and Dual Rear on 20 x 5.0 Wheels and Rims. (158" Wb. only.)
Vacuum Power Braking (158" Wb.)	8.25-20 10-ply rating Front and Dual Rear, on 20 x 6.0 Wheels and Rims. (194" Wb. only.)
Heater and Defroster—Recirculating Type†	
Fresh Air Intake Type†	
Heavy Duty Radiator (V-8 only)	
†Partial installation—heater mounted and connected, defroster tubes loose.	

FINISH AND COLOR COMBINATION

Frame, Bumper, Wheels, 30 gal. Frame-Mounted Fuel Tank, Fuel Filler Cap, Tail Lamp	Black
Grille Recess and Grille Bars	M1733 Aluminum
Hood Moldings, Head and Parking Lamp Doors, Name and Identification Plates	Bright Finish
Fenders, Hood, Cowl	M14301 Chrome Yellow

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