

Auburn Automobile Company Auburn, Indiana, U. S. A.

Why We Introduce a Front Drive Automobile

By E. L. Cord

AUBURN'S policy for five years has been to strenuously seek new ways to improve, develop and originate better automobiles. In the course of this earnest search it was inevitable that we should investigate the possibilities of the established principle of front-wheel drive. We had as a precedent the progress of aviation where puller planes were adopted instead of the original pusher types. Our long experimental work has conclusively demonstrated that automobiles that are pulled, instead of pushed, have pronounced exclusive advantages. Therefore in order to continue to grow and maintain our own leadership we are introducing America's first production front-drive automobile. The Cord car is a specialty car, different from others. Its purpose is not to obsolete rear-drive cars. Being the very latest automotive development however, it creates an entirely new place never before occupied by any other car. We offer it as an addition to our other products, being priced between our complete line of Auburn and Duesenberg cars. No automobile built can have all the advantages nor appeal to all people, no more than one house can embrace every residential advantage and meet the needs of every family. We found in our thorough sales tests that the front-drive car has inherent features that attract more people even than we anticipated. Its favorable reception has been universal and decisive. Its exclusive advantages in safety, easy handling, comfort and durability have already won a host of

converts! In order that the attributes peculiar to the frontdrive may be fully enjoyed by those who desire them, we are determined to build the Cord car so substantially and of such unquestioned quality in every respect, that owners will have an extremely satisfactory and economical investment for many years. The basic difference of the Cord makes possible many drastic claims, but we prefer that the public learn of these exclusive advantages from the car itself. No technical explanation nor description could convey the difference in roadability, sense of safety and sure control of this new kind of automobile. These things are revealed and appreciated only through driving. Therefore this brochure is confined to reproductions of actual photographs of the four Cord models, a few of its structural features and its specifications. It seems fitting however to refer to the significance of the leadership of the Cord in this inevitable progress. Years have been devoted to its development. Being the leader, we were unhurried. Being first we have had many advantages no longer available to others. We could deliberate and exhaust all of the possibilities. Nothing has been spared; time, money nor effort to make this a strictly quality car in every respect. We have had a free hand to benefit from the best that the whole world offered. We have been privileged to pick and choose from all designs and patents. We have been able to procure the exclusive services not of one, but of as many of the most experienced and leading front-drive engineers as we wanted. We have had ample time to design, test and experiment. We have the rights, for as long as we care to use them, to the patents of the famous Harry Miller, internationally famed for his front-drive racing cars. We submit it as a simple statement of fact that this car requires no selling to those who can afford it.









Comfortable rumble seat in Cabriolet



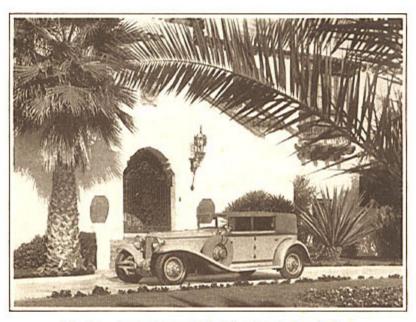
Distinctive and pleasing front end appearance



Smart cadet type visor



Exceptional ease of steering and control



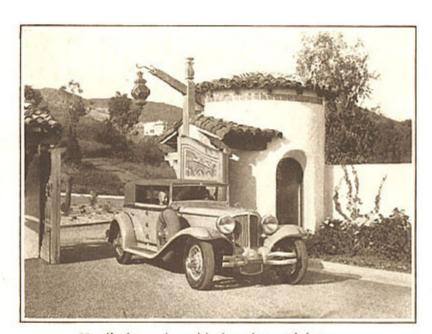
Custom type Convertible Phaeton Sedan body



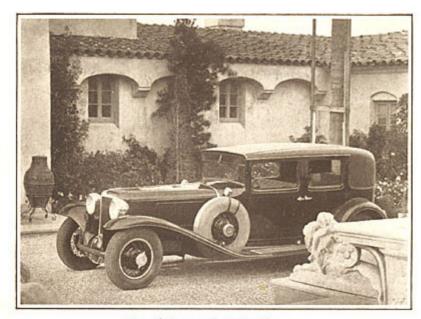
Doors of unusual width for convenience



Low body design but no sacrifice of head room



Headlights and cowl lights of special design



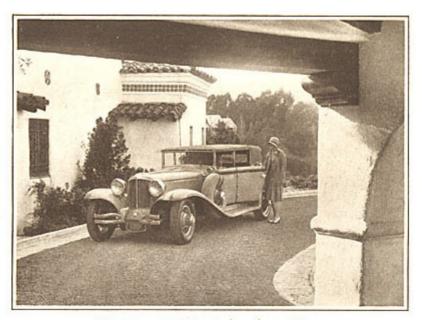
Complete comfort for five



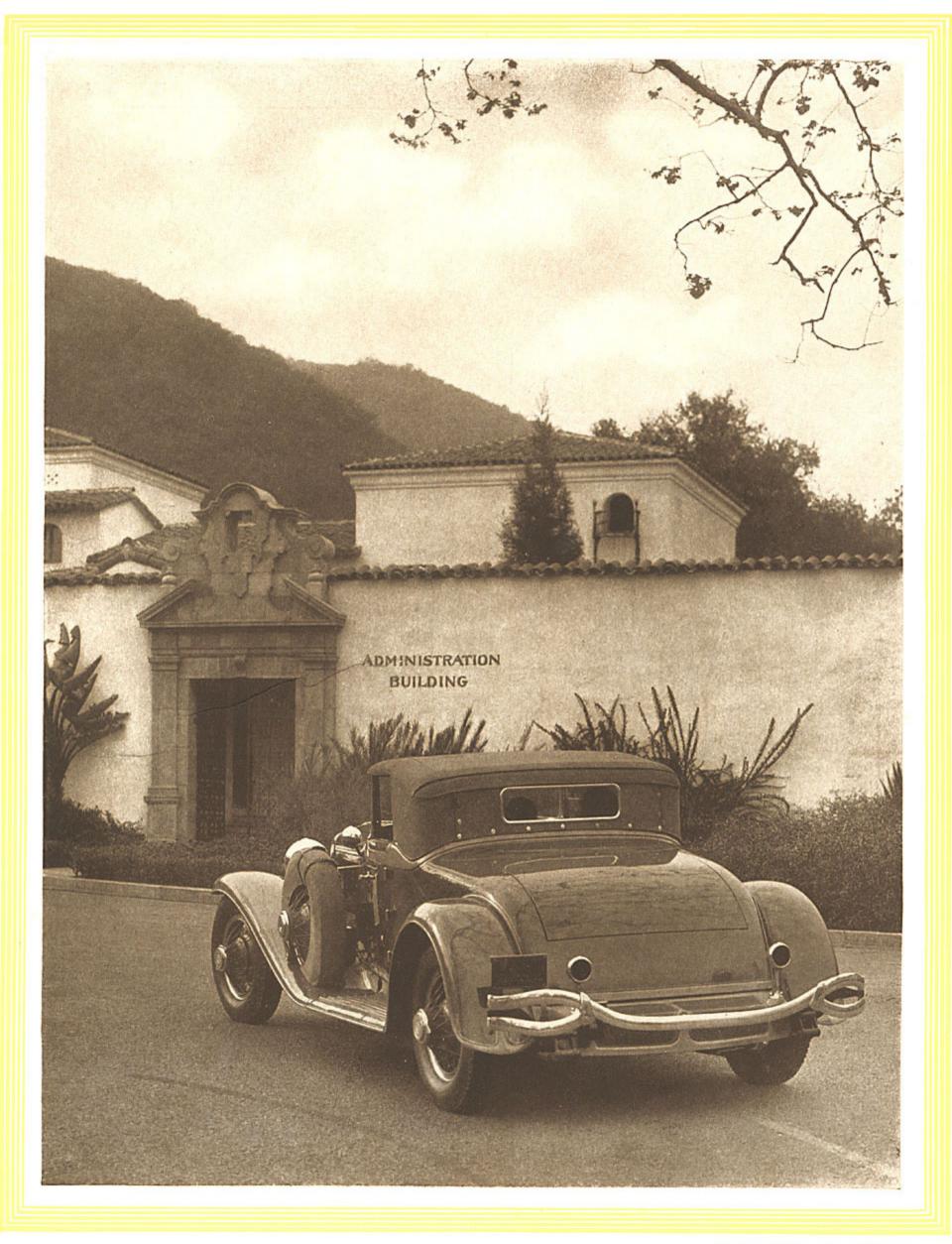
Fenders of long, sweeping lines

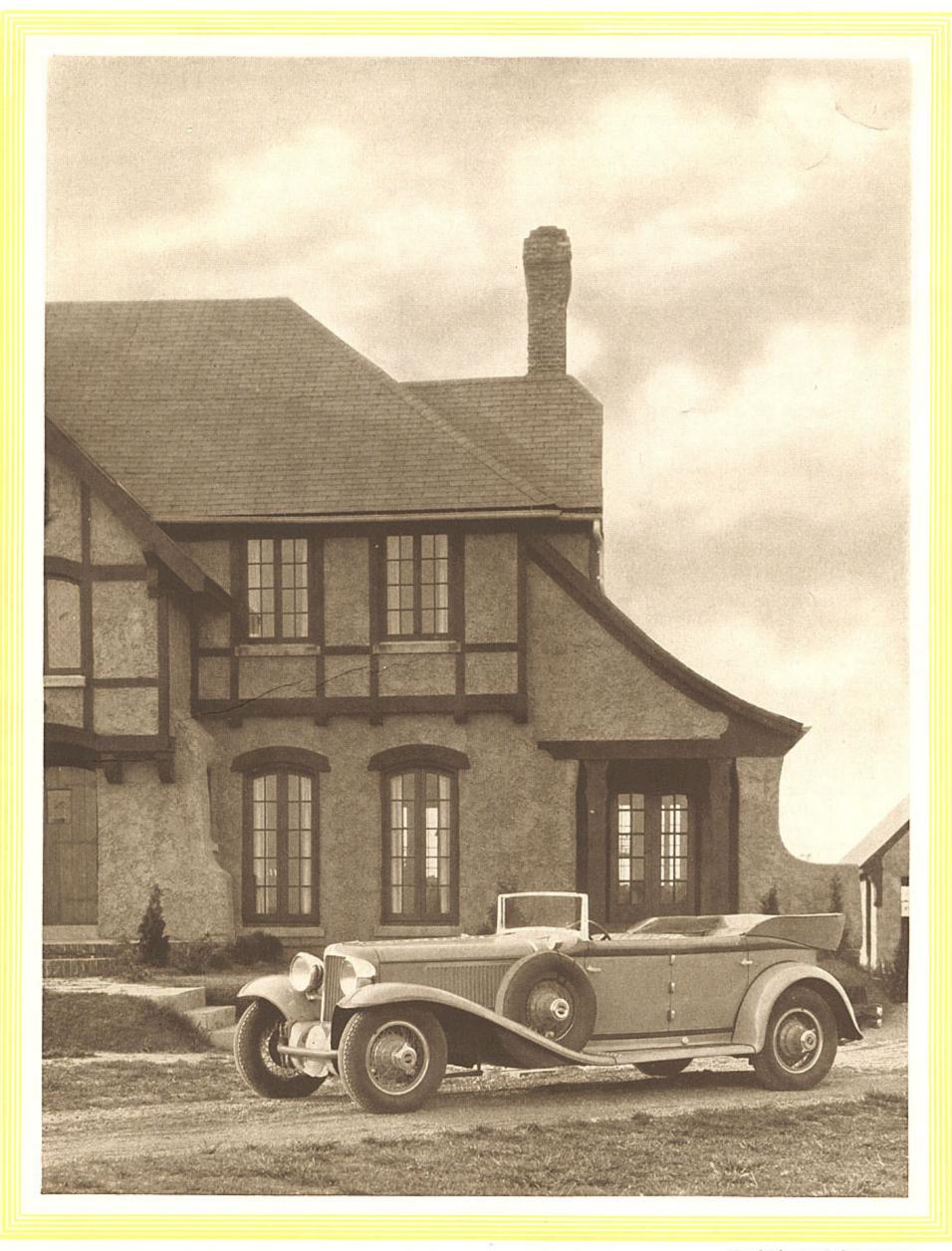


Long, low, racy lines

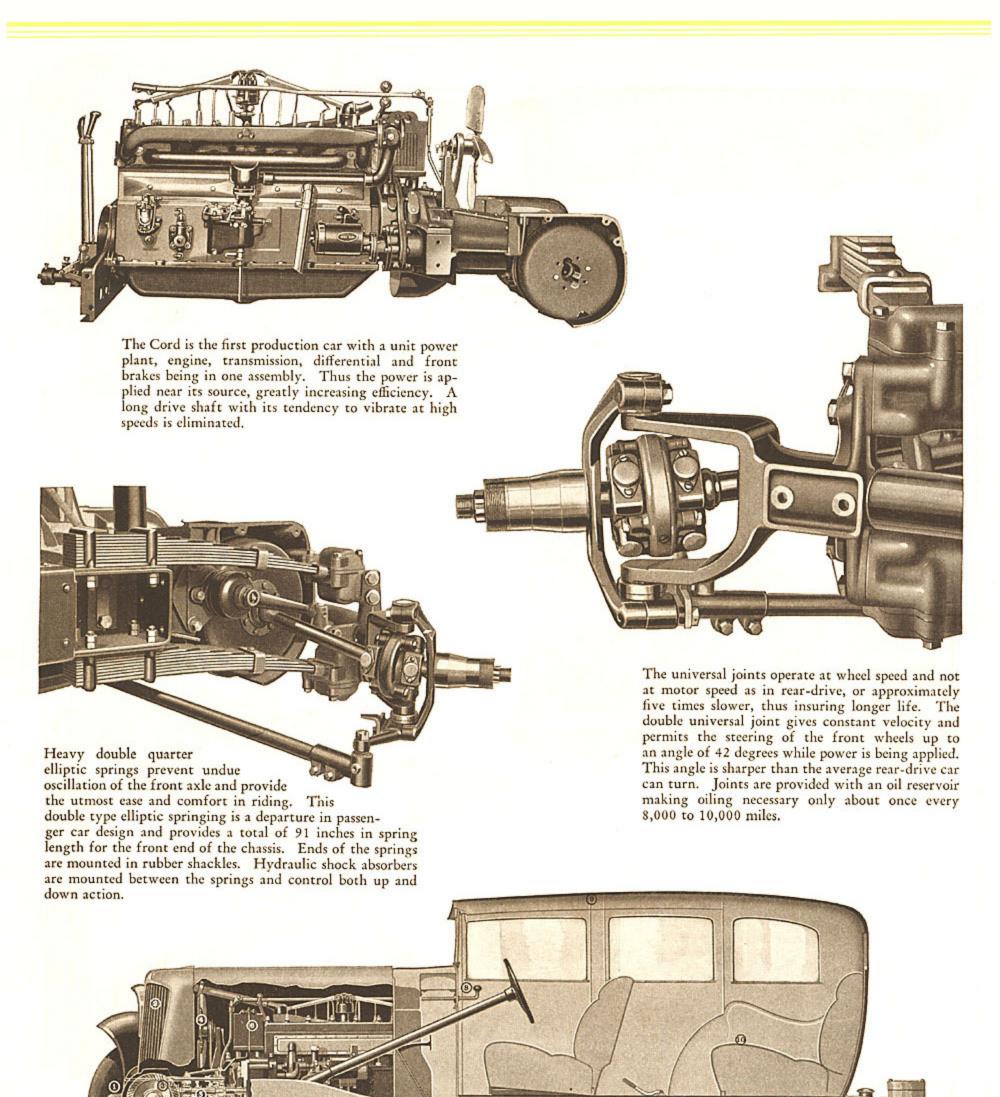


Narrow corner posts for clear vision





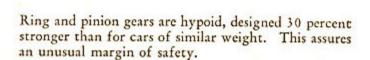


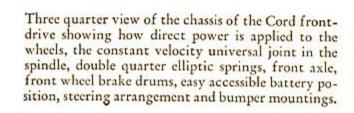


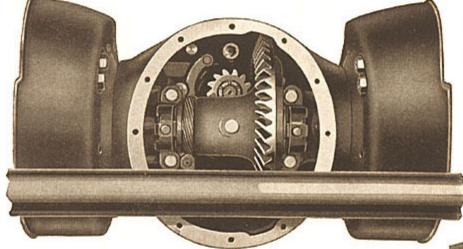
- 1 Tubular Front Axle.
- 2 Automatic Radiator Shutters.
- 3 Differential.
- 4 Four-Blade Fan.
- 5 Transmission.
- 6 Battery.
- 7 Single Plate Clutch.
- 8 Gear-shift lever.
- 9 Greater head-room.
- 10 Both seats on same level.
- 11 Straight frame-no kick-up.



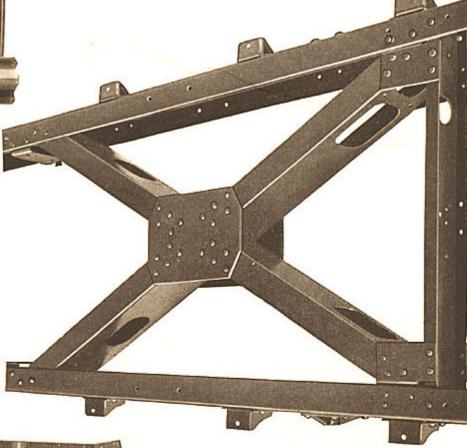
The metal instrument panel is in three divisions. The left group contains the speedometer, motor temperature indicator, oil pressure gauge, spark control, throttle, instrument lamp and left windshield wiper. In the center is a glove compartment and just below this is the ignition lock and the gear shift lever. The group on the right contains the starter, choke, manifold heat control, right windshield wiper, gasoline gauge, engine oil level gauge and ammeter. Background of the panel is in a rich crackle finish and instruments are of the approved aviation type, white figures on black background. Special attention has been given to arrangement of instruments for ease in operation.







Bridge like construction of the chassis frame (right) giving the Cord front-drive the strongest frame under any passenger car built. The X-cross member is an innovation in chassis frame bracing and is possible through the absence of a drive shaft. Illustration below shows the straight side rails and rear cross-members. Side rail stock is 7/32 inches thick. No tramp, shimmey, nor wobble with a frame like this. Absence of frame "kick-up" at rear makes lower body possible and enables Cord designers to place rear seat on same level as front.





SPECIFICATIONS

AXLE—Front	Connecting Rod Length 9" center to center
Type3/4 floating—Tubular	Connecting Rod Bearing Diam. 21/8"
Axle End Type Reverse Elliot	Piston MaterialBohnalite
Trans. Inclination of King PinNone	Piston Type Invar Strut
Trans. Inclination of Spindle11/2 deg.	Piston Rings
Castor Angle 2 deg.	Piston Rings LocationAll Above Pin
Castor Angle 2 deg. Toe-in Nothing	Valve Port. Diam.
Inside Universal Joints Universal Products	1-5/16 Exhaust, 1-7/16 Intake
Outside Universal Joints	Valve Lift11/32"
Mechanics—special constant velocity	Exhaust Valve Material Silicrome
Final DriveInverted Hypoid	FIFT OVOTEM
Gear Ratio4.076-1, 4.416-1, 4.818-1	FUEL SYSTEM
	Tank Capacity 20 gallons
AXLE—Rear	Fuel Feed Pump
	Carburetor Schebler 11/4" Dual
TypeI Section	FRAME
PRODUCTURE OF THE PROPERTY OF	
BRAKES—Foot	Channel Depth 7" Flange Width 3"
TypeInternal Hydraulic	Thickness 7/32"
Operate on4 wheels	Cross Members 3 Straight, 2 Diagonals
Front Drum Diam12"	Cross Members 3 Straight, 2 Diagonais
Rear Drum Diam15"	IGNITION & ELECTRICAL
Division of Braking Effort	Make Delco Remy
60% front, 40% rear	Generator Drive Chain
	Starter Drive Bendix
BRAKES—Hand	Battery Make U. S. L.
TypeInternal Mechanical	Battery Capacity104 a. h. at 5 amp. dis.
Operate on Rear Wheels	Battery LocationUnder Hood
This system operates the serv. brake shoes	Spark Control Semi-automatic
in rear drums.	Automatic Advance15 deg. engine
	Manual Advance15 deg. Engine
CLUTCH	Firing Order1-6-2-5-8-3-7-4
	Ignition Switch Delco Remy
TypeDry Disc	
Driven Discs1	LUBRICATION
Facings2	Chassis Bijur
COOLING	Points Reached—
COOLING	Points Reached—
TypeCentrifugal Pump	Points Reached—
TypeCentrifugal Pump Pump DriveChain	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to—
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in.	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double 1/4 elliptic
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double 1/4 elliptic
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement I. Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double 1/4 elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic
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Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4 Mixture Heated by Exhaust around riser Heat Control Manual	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic Length Semi-elliptic Length 62"
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4 Mixture Heated by Exhaust around riser Heat Control Manual Vibration Dampener Tortional—Lanchester	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double 1/4 elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic
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Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4 Mixture Heated by Exhaust around riser Heat Control Manual Vibration Dampener Tortional—Lanchester Crankshaft Counterbalanced No. Main Bearings 5 Main Bearing Diam. 23%	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic Length 62" Shackles Metallic Leaf Material Silico-Manganese STEERING GEAR Type Worm and Roller
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4 Mixture Heated by Exhaust around riser Heat Control Manual Vibration Dampener Tortional—Lanchester Crankshaft Counterbalanced No. Main Bearings 5 Main Bearing Diam. 23% Camshaft Drive Chain	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic Length 62" Shackles Metallic Leaf Material Silico-Manganese STEERING GEAR Type Worm and Roller Gear Ratio 20-1
Type Centrifugal Pump Pump Drive Chain Radiator Type Tube Thermostat Dole Radiator Shutter Automatic ENGINE Make Lycoming Cylinders 8 in line en bloc Valve Arrangement L Crankcase Separate Bore and Stroke 3½ x 4½ Piston Displacement 298.6 cu. in. Tax HP 33.8 Maximum Developed HP 125 Compression Ratio 5.25-1 Rotation of Engine Counter-clockwise Points of suspension 4 Mixture Heated by Exhaust around riser Heat Control Manual Vibration Dampener Tortional—Lanchester Crankshaft Counterbalanced No. Main Bearings 5 Main Bearing Diam. 23% Camshaft Drive Chain No. Camshaft Bearings 6	Points Reached— Rear Springs 6 points Fan 2 points Water Pump 1 point Clutch 1 point Clutch and Brake Pedals 2 points Engine Gear Pump Capacity 8 quarts Pressure to— Main Bearings Camshaft Front Bearing Rod Bearings Timing Case SPRINGS—Front Type Double ¼ elliptic Shackle Type Rubber Leaf Material Silico-Manganese SPRINGS—Rear Type Semi-elliptic Length 62" Shackles Metallic Leaf Material Silico-Manganese STEERING GEAR Type Worm and Roller
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Gear Shift	
Std. in Transm	ission, 1 3
reversed in	
reversed in	****
	* *
	R 2
Transmission Ratios-	-
Low	3.11-1
Second	
High	Direct
Nevers	
Note: All driving at	nd front braking torque the frame. Rear brak-
ing torque taken	
	FEATURES
Height of Sedan	61"
Height of Phaeton-Se	dan58"
	Sedan36" - 37"
	58" front, 60" rear
Wheels	71111
Horns, I on each side.	tuned to give beat note
Instrument Board—	3
(Water Temp. Gauge
- V-33	Oil Pressure Gauge
Left Inst. Group	Speedometer
(Left Windshield Wiper
1666	Spark Control Throttle
Left Con. Group	Inst. Light Switch
}	Gear Shift Lever
Center Group	Ignition Switch
	Glove Compartment
,	Rt. Windshield Wiper
Rt. Con. Group	Starter
Kt. Con. Group	Choke
(Carb. Heat Control
Rt. Inst. Group	Gasoline Gauge
Rt. Hist. Group?	Oil Level Gauge
All instruments are o	Ammeter f the rotating dial type.
Two Cowl Ventilator	
Two Windshield Wipers.	
Emergency Brake Lever placed well forward	
in center.	No. 11- Control of Con
	iding rod type through
instr. board.	
Hand crank in conve	ting crank hole cover,
glove comparts	nent lid, and gasoline
tank cover.	iene na, and gasonne
Front Seat adjustable	fore and aft.
Steering column adju	
Four Houdaille shoel	absorbers.
Torchieres in rear c	orners and dome light
in all closed cars	
	ning board of all models.
on right rear	, stop and back up light
	knurled knob in center
Lights controlled by knurled knob in center of steering wheel.	
Speedometer drive off differential shaft giv-	
ing proper record	ding with all gear ratios.
Front fenders approx	imately 80" in length.
Hood 46" in length.	
Tires 18 x 7.00 standard.	
Unique and original lock.	theft-proof spare tire
lock.	

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