



KAISER
SPECIAL

OWNER'S
INSTRUCTION BOOK

KAISER-FRAZER CORPORATION
WILLOW RUN, MICHIGAN

LICENSE DATA

CAR SERIAL NUMBER IS LOCATED on left "A" post between upper and lower door hinges.

ENGINE SERIAL NUMBER is stamped on the cylinder block between No. 1 and 2 cylinders just below the cylinder head and also on the engine name plate.

BORE— $3\frac{5}{16}$ ". **STROKE**— $4\frac{3}{8}$ ".

NUMBER OF CYLINDERS—6.

A.M.A. HORSEPOWER—26.3 hp.

MAXIMUM BRAKE HORSEPOWER RATING—100 at 3600 rpm.

PISTON DISPLACEMENT—226.2 cubic inches.

RECORD YOUR KEY NUMBER AND DESTROY THE TAG

Four keys come with your car; two for ignition lock, and two for the trunk. The key or lock number is stamped only on the tag attached to the keys. For protection against theft, record the number and destroy the tag.

RUNNING-IN SPEEDS

DO NOT EXCEED:

40 mph for the first.....	400 miles
50 mph for the next.....	200 miles
70 mph for the next.....	400 miles
1000 mile run-in completed.	

Engine ready for service check; oil change, compression check, set tappets, etc.

**DO NOT DRIVE AT SUSTAINED HIGH SPEEDS
DURING THE FIRST 2500 MILES**

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1561.9 ——— 18 gal + P66

FOREWORD

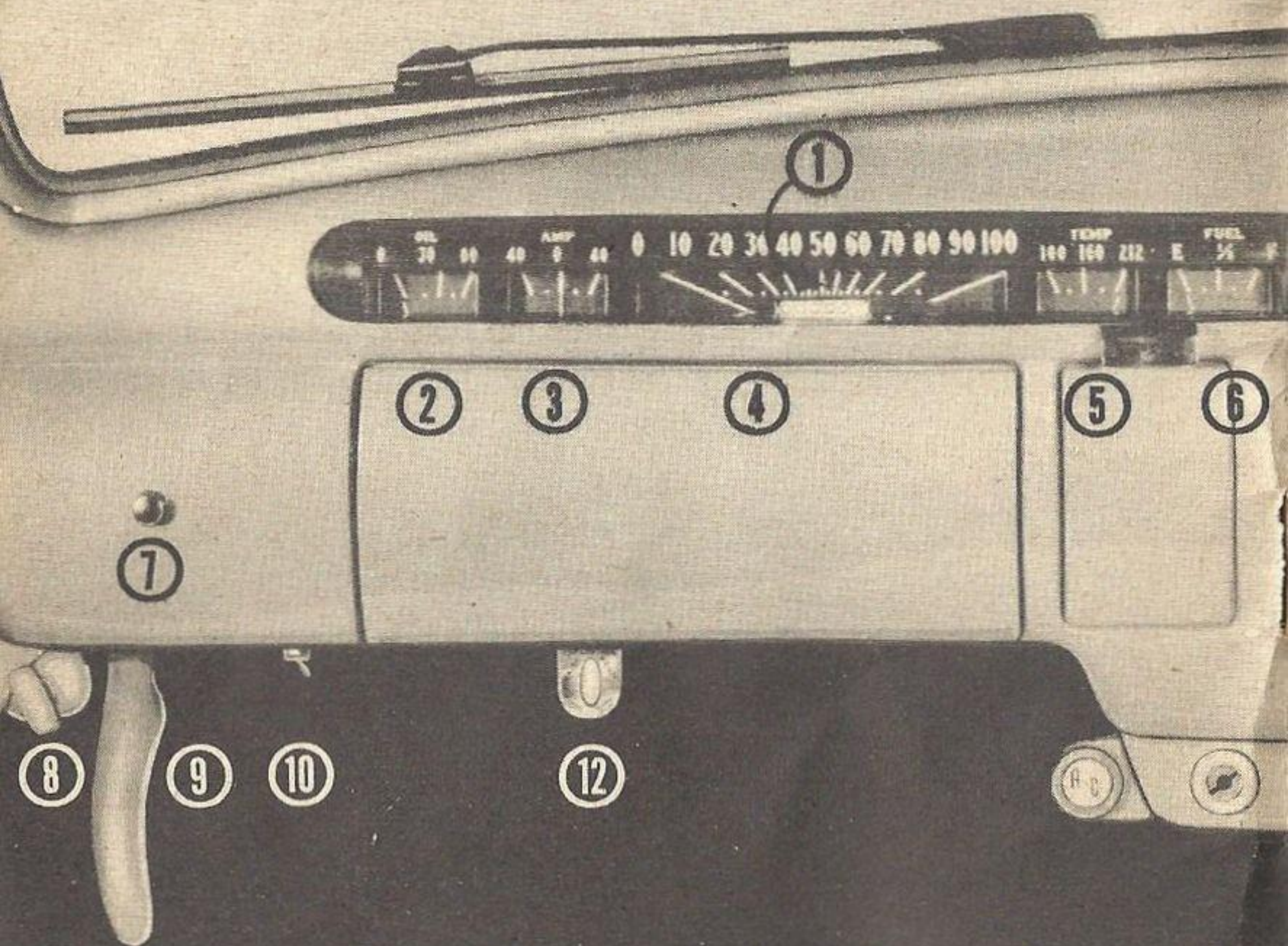
In preparing this book, we have included only such information as is essential to comfortable and efficient operation of your new Kaiser Special. No attempt has been made to cover detailed maintenance or adjustment procedures. Rather, our purpose is to acquaint you with the locations and functions of all controls and instruments used in normal driving.

Should additional information be required, consult your dealer's service manager who is well qualified to serve you.

KAISER-FRAZER CORPORATION
WILLOW RUN, MICHIGAN, U. S. A.

THE INSTRUMENT PANEL

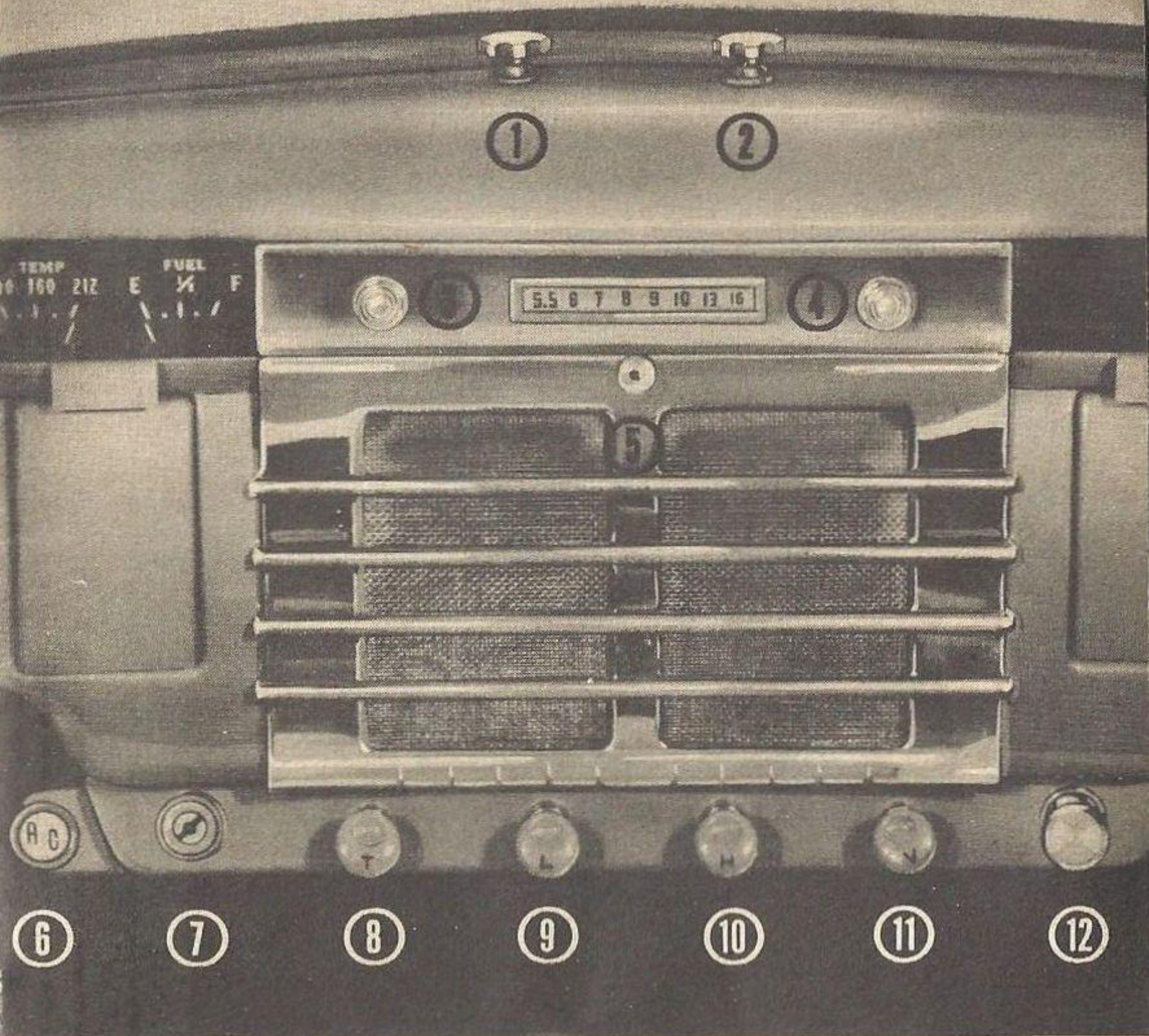
1. **HEADLIGHT BEAM INDICATOR**—Will glow when the upper beams are lighted by depressing the toe switch.



2. **OIL PRESSURE GAGE**—Indicates engine oil pressure in pounds per square inch. Should read 35 lbs. at speeds above 30 mph.
3. **AMMETER**—Indicates flow of electrical current to or from battery;—indicates discharge, + indicates charge.
4. **SPEEDOMETER**—Indicates speed in miles per hour. Horizontal travel of indicator increases readability of speedometer.
5. **TEMPERATURE GAGE**—Have cooling system checked immediately if indicator ever reaches the danger point.
6. **FUEL GAGE**—Will register the amount of fuel in the gasoline tank when the ignition switch is turned on.
7. **STARTING SWITCH BUTTON**—Push, to operate starting motor.

CONTROL PANEL

1. **WINDSHIELD WIPERS**—Turn control knob to the right to start wipers; to the left, to operate the windshield washer. A vacuum tank insures constant wiper operation even while the engine is accelerating.
2. **DEFROSTER CONTROL SWITCH.**
3. **RADIO SWITCH AND VOLUME CONTROL.**
4. **RADIO STATION TUNING KNOB.**
5. **RADIO STATION SELECTOR BUTTON.**
6. **AIR CONTROL.**
7. **IGNITION SWITCH**—Turn key to the right when starting engine. Turn key to the left to operate fuel gage, radio and other equipment when engine is not running.
8. **THROTTLE**—Pull, to open throttle. Keep throttle in closed position unless a fixed engine speed is desired.
9. **LIGHT SWITCH**—Pull the switch button out to the half way position, to turn on the parking and tail lights. Head and tail lights are turned on by pulling the button all the way out.



10. HEATER CONTROL SWITCH.

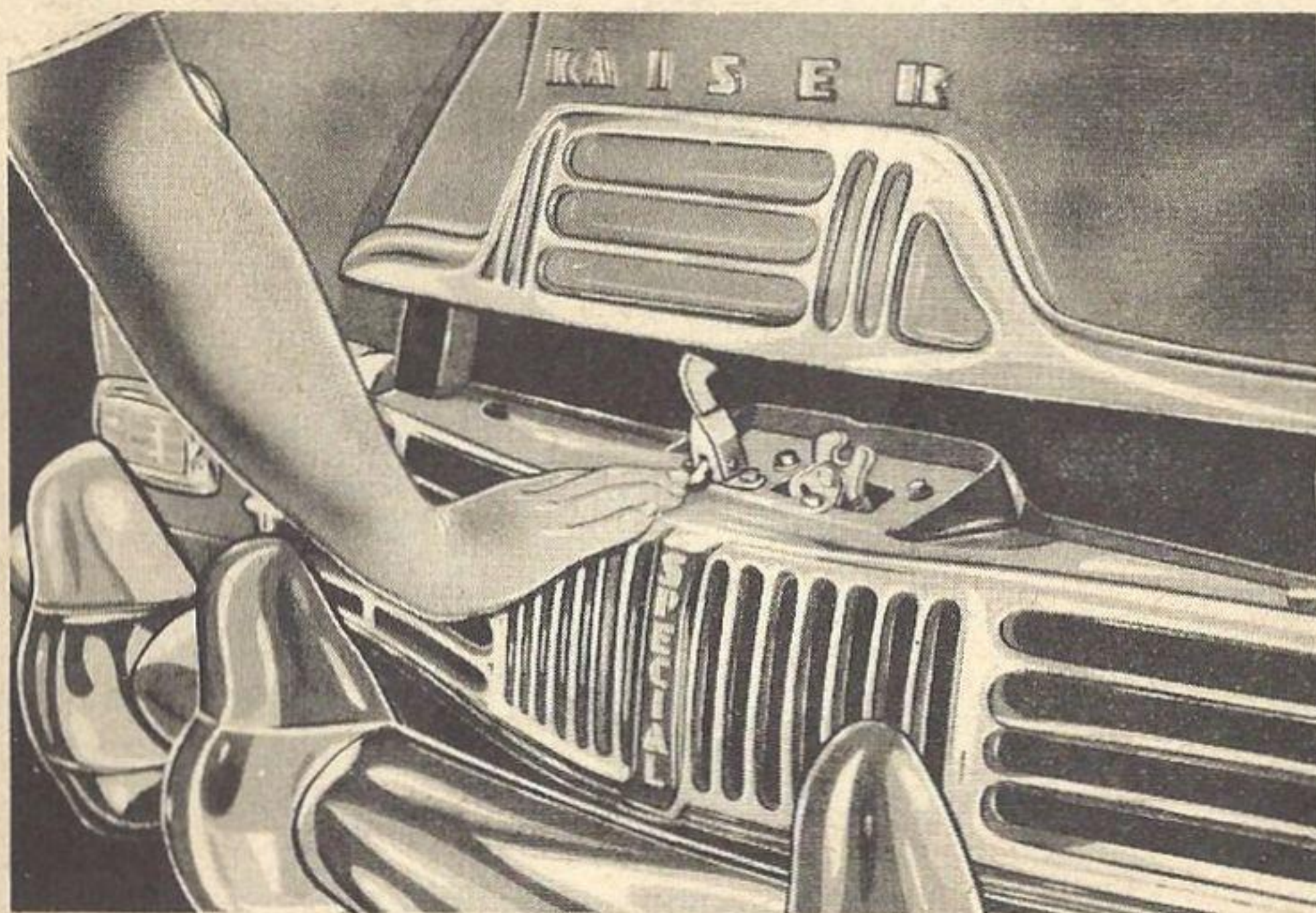
11. VENTILATOR CONTROL—Pull, to open the ventilator.

12. CIGAR LIGHTER—Push in to light. Lighter “pops out” when the element is hot.

(See Page 8 for Optional Equipment)

MISCELLANEOUS CONTROLS

1. **HOOD LOCK CONTROL**—The hood lock control button is located under the left corner of the instrument panel between the hand brake lever and inner body panel. (See picture page 2, reference 8.) To open the hood, pull the control button, then release the safety catch at front of hood. (See figure below.)
2. **HAND BRAKE LEVER**—The hand brake lever is located under the left corner of the instrument panel. (See picture page 2, reference 9.)



3. **INSTRUMENT PANEL LIGHT SWITCH**—A toggle switch controlling the instrument panel lights is located in the lower edge of the instrument panel, to the left of the steering column. (See picture page 2, reference 10.) With this switch in the "on" position, the panel lights are turned off and on with the head lights, but may be turned off to improve road visibility if desired.

5. **HEATER TEMPERATURE CONTROL.** (See picture page 2, reference 12.)
6. **CLUTCH AND BRAKE PEDALS**—The clutch and brake pedals have a “high” and “low” adjustment. The adjustment is made from under the floor boards by removing the locking screw, adjusting the pedal, and then replacing the locking screw.
7. **DOMELIGHT SWITCH**—The dome light switch is located on the door pillar between the left doors. On the four-door sedans, this light is operated automatically when the right or left front door is opened or closed.
8. **HEADLIGHT BEAM SWITCH**—The headlight beam is raised or lowered by pressing the button located on the floor board, just left of the clutch pedal.
9. **FRONT SEAT ADJUSTMENT**—To adjust the front seat fore or aft, operate the locking lever located on the left side of the seat. After moving the seat, release the lever to lock the seat in that position.
10. **OUTSIDE DOOR HANDLES**—The outside door handles are stationary. The lock is released by gripping the handle in the usual manner, then squeezing the trigger located on the inside of the handle. When the lock is released, the door will swing slightly ajar.
11. **INSIDE DOOR LOCK RELEASE**—There are no inside door lock handles. To release the door lock, simply press the button located near the center of the trim panel just beneath the window molding. The door will swing slightly ajar when the button is pressed.

NOTE: All doors may be locked or unlocked from inside the car. To lock, press the locking plunger located in the window molding directly opposite the outside door handle. To unlock, raise the locking plunger.

(See Page 8 for Optional Equipment)

OPTIONAL EQUIPMENT

The specially designed equipment listed below may be purchased from and installed by your dealer.

HEATER

The heater obtains its heat from the fluid in the engine cooling system, while the defroster obtains heated air from the car heater. The following controls are furnished:

1. **HEATER CONTROL SWITCH**—Varies the speed of the blower and circulates heated air through the car.
2. **AIR CONTROL**—Permits entry of fresh air through the heater or, if desired, re-circulation of warm air in the car.
3. **HEATER TEMPERATURE CONTROL**—Controls temperature of heated air.
4. **DEFROSTER CONTROL**—Varies the speed of the defroster blower which directs heated air at the windshields.

RADIO

The radio obtains power from the car battery and is equipped with the following controls:

1. **PRE-SET STATION SELECTOR**—This control, installed as shown on page 5, enables you to tune in pre-set stations automatically. In addition, a button is provided on the floor board for toe operation so that both hands are free for driving while changing stations.
2. **TUNING KNOB**—Permits tuning of stations not available through use of the station selector.
3. **VOLUME CONTROL AND SWITCH**—Turns radio "on" or "off" and controls the volume.
4. **tone control**—Located directly behind the volume control; accents high or low tone ranges as desired.

WINDSHIELD WASHER—Sprays liquid cleaner on windshield exterior when windshield wiper control is turned to the extreme left.

STARTING THE ENGINE

Before starting the engine be sure the gear shifting lever is in the neutral position, then proceed as follows:

1. Disengage the clutch.
2. Turn on ignition (turn key to right).
3. Depress accelerator.
4. Press starter button.

If engine is extremely hot or cold, depress accelerator about one-third of its travel and keep starter engaged until the engine starts.

If engine over-chokes (floods), depress accelerator all the way and operate starter continuously until engine starts.

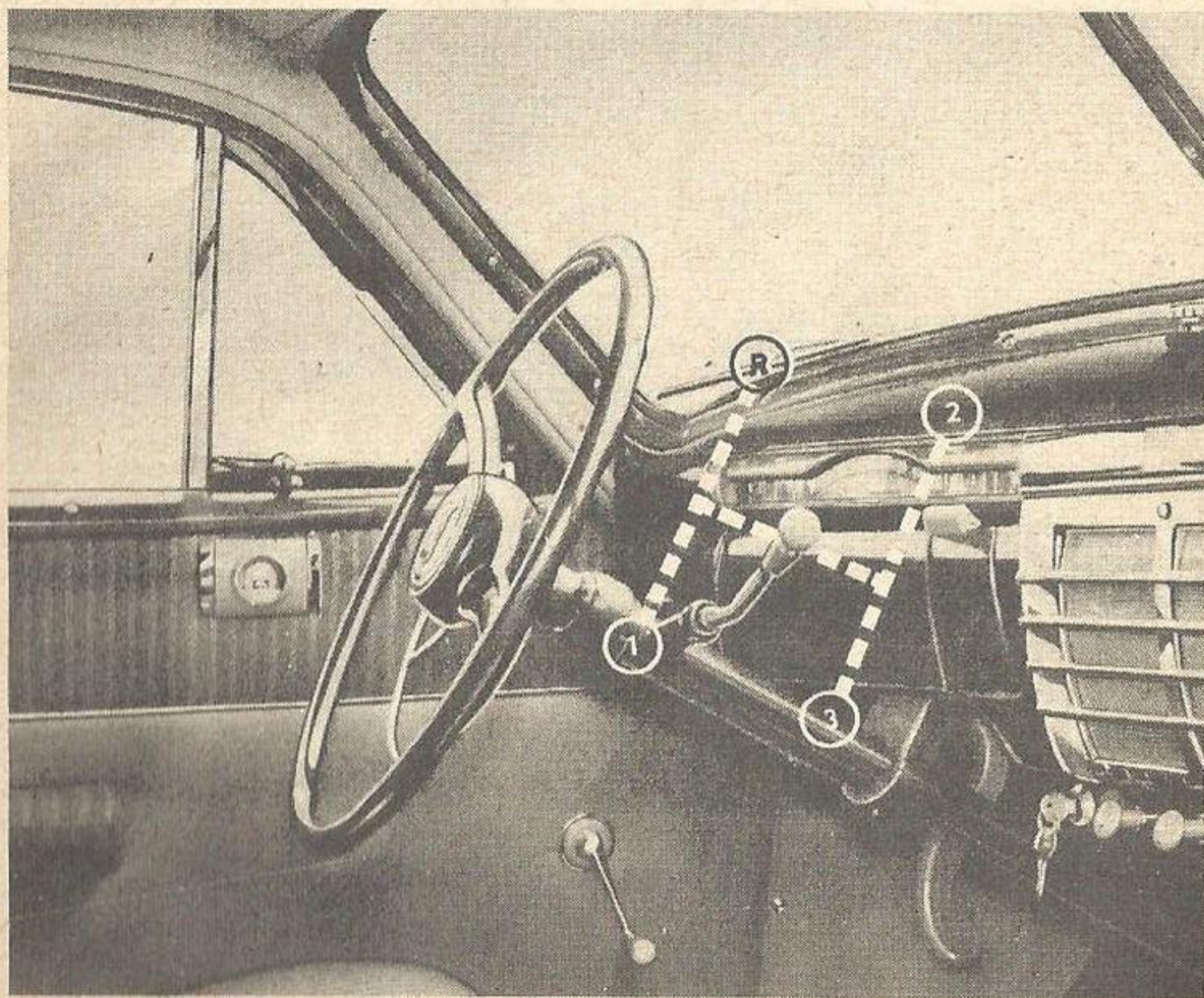
CAUTION: Do not pump the accelerator as this may cause difficult starting.

WARNING

Never start or run the engine in a closed garage. The exhaust gases are highly dangerous. They contain carbon-monoxide gas, which is colorless, tasteless and odorless—but nevertheless is a DEADLY POISON!

SHIFTING THE GEARS

The gear shift lever is located directly under the steering wheel for convenient and easy shifting. Synchronous-mesh helical cut gears make shifting into second and high exceptionally easy and quiet. There are three speeds forward and one speed in reverse. (See illustration.)



CAUTION: Before starting the engine, be sure the gear shift lever is in the neutral position. Never attempt to shift gears without first depressing the clutch pedal. Never attempt to shift into reverse gear when the car is moving forward.

CAPACITIES

Engine.....	5.5 qts (5 qts. for refill)
Transmission.....	2.5 pts
Rear Axle (Differential).....	3 pts
Steering Gear.....	5.5 oz
Air Cleaner.....	1 pt
Hydraulic Brake System.....	10.2 oz
Cooling System.....	13 qts

CARE OF STORAGE BATTERY

The storage battery is located under the hood in the left side of the engine compartment. The carrier clamps should be kept snug but not tight enough to crack the battery case. Check the following items frequently:

- 1. WATER LEVEL.** Maintain the water level using either distilled water or a good grade of chemically analyzed drinking water. If such types are not available, a good grade of water which is clear and free from sediment and fit to drink, may be used. **NOTE:** Do not add water in freezing weather unless the car is to be driven immediately afterward.
- 2. SPECIFIC GRAVITY.** Using a temperature-corrected hydrometer, check specific gravity of battery solution for a reading of between 1.280 and 1.290 at a temperature of 80° F.
- 3. BATTERY CONNECTIONS.** Keep all battery connections clean and tight. This is especially important in cold weather as it materially aids starting.

KAISER MODEL K-100

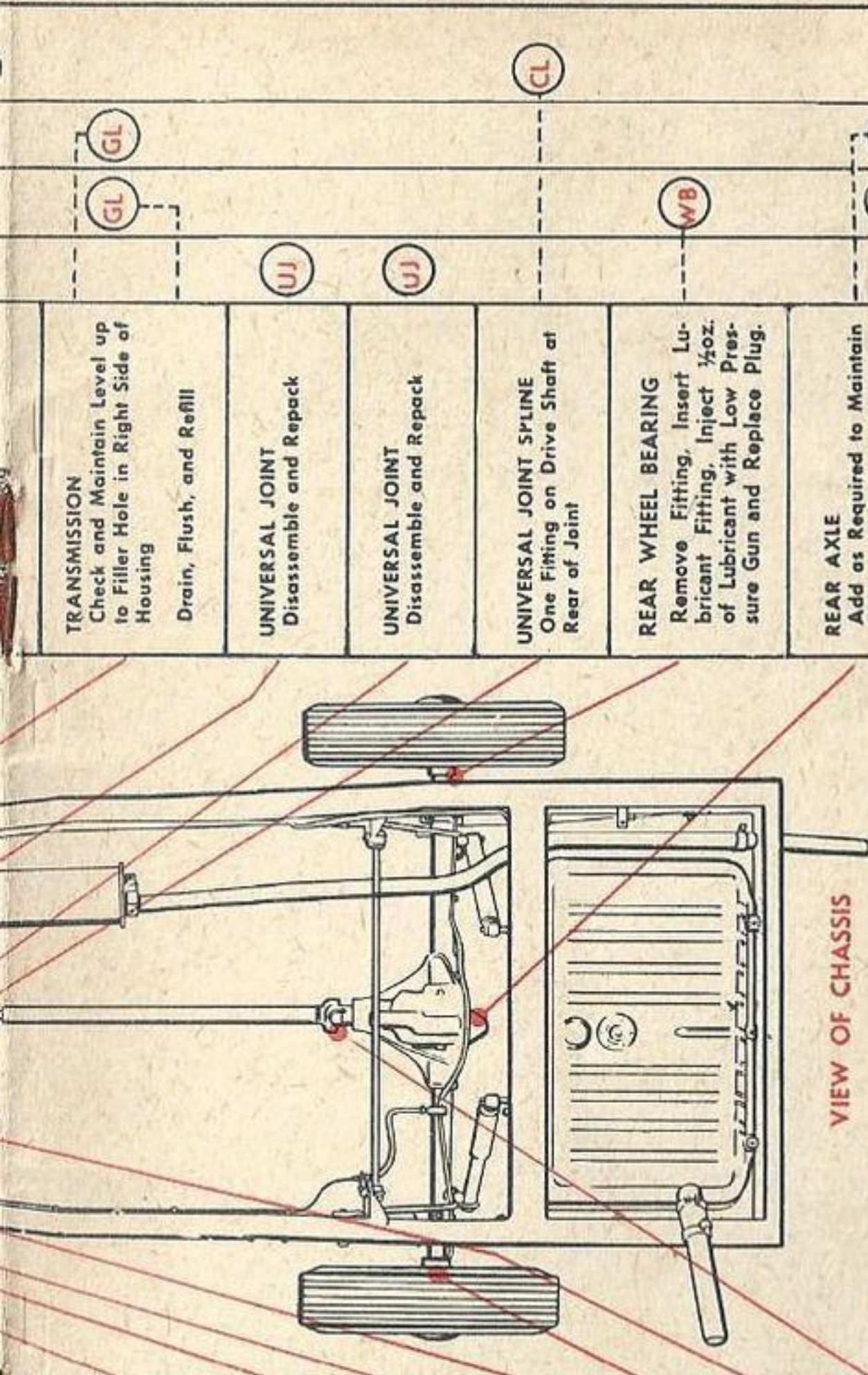
KAISER MODEL K-100

MILES	1,000	2,000	10,000	20,000
LOWER SUSPENSION 3 Fittings, Right Side	CL			
TIE-ROD JOINTS 2 Fittings, Right Side	CL			
GENERATOR 2 Oil Cups, Front & Rear Apply 2 Drops in Each Cup ★		EO		
CRANKCASE BREATHER CAP Wash thoroughly in Kerosene, then Dry and Immerse in Oil ★★		EO		
UPPER SUSPENSION 4 Fittings, Left Side	CL			
FRONT WHEEL BEARING Remove, Clean, and Repack			WB	
KING PIN 2 Fittings (Upper & Lower), Left Side	CL			
ENGINE CRANKCASE Drain, Flush, and Refill After First Two 1,000 Mile Intervals; Thereafter, Every 2,000 Miles				EO
STEERING GEAR Add as Required to Maintain Level up to Filler Hole on top of Gear Housing				EP

UNDERSIDE OF CHASSIS

MILES	1,000	2,000	10,000	20,000
STERING IDLER ARM 1 Fitting	CL			
LOWER SUSPENSION 3 Fittings, Left Side	CL			
DRAG LINK 2 Fittings	CL			
TIE-ROD JOINTS 2 Fittings, Left Side	CL			
CARBURETOR AIR CLEANER Remove and Wash Element in Kerosene, Dry and Immerse in Oil. Empty and Clean Res- ervoir then Refill to Indicat- ed Level ★★		EO		
UPPER SUSPENSION 4 Fittings, Right Side				CL
KING PIN 2 Fittings, (Upper & Lower), Right Side				CL
FRONT WHEEL BEARING Remove, Clean, and Repack			WB	
DISTRIBUTOR OIL CUP AND BREAKER-ARM PIVOT Apply 3-5 Drops in Cup, Then Remove Distributor Cap and Apply 1 Drop to Breaker-Arm Pivot Remove Rotor, Apply 1 Drop to Shaft Felt ★				EO
DISTRIBUTOR CAM While Distributor Cap is off, Apply Lubricant to Cam, Using Finger				CL
CLUTCH RELEASE SHAFT 1 Fitting on Right Side of Clutch Housing				CL

CL	GEAR SHIFT LEVER 1 Fitting	CL	TRANSMISSION Check and Maintain Level up to Filler Hole in Right Side of Housing	GL
BF	BRAKE MASTER CYLINDER Maintain Level to Within 1/4" of Filler Hole on Top of Cylinder	GL	UNIVERSAL JOINT Disassemble and Repack	UJ
CL	CLUTCH BELL CRANK 1 Fitting on Bell Crank Shaft	UJ	UNIVERSAL JOINT Disassemble and Repack	UJ
CL	CLUTCH PEDAL BEARING 1 Fitting on Pedal Base	CL	UNIVERSAL JOINT SPLINE One Fitting on Drive Shaft at Rear of Joint	CL
CL	BRAKE PEDAL BEARING 1 Fitting on Pedal Base	WB	REAR WHEEL BEARING Remove Fitting, Insert Lubricant Fitting, Inject 1/2oz. of Lubricant with Low Pressure Gun and Replace Plug.	WB
CL	REAR WHEEL BEARING Remove Fitting, Insert Lubricant Fitting, Inject 1/2oz. of Lubricant with Low Pressure Gun and Replace Plug.	HL	REAR AXLE Add as Required to Maintain Level up to Filler Hole	HL
CL	CLUTCH RELEASE SHAFT 1 Fitting on Left Side of Clutch Housing	HL		HL
UJ	UNIVERSAL JOINT Disassemble and Repack			



VIEW OF CHASSIS

KEY TO SYMBOLS

NOTES ★ Use SAE 20 Only ★★ SAE 20 Below 32° SAE 50 Above 32°	HYPOID GEAR LUBRICANT SAE 90 Below 32° use SAE 80 Use only Hypoid Lubricant Manufactured by a Reputable Company. NEVER MIX VARIOUS BRANDS OF HYPOID IN THE REAR AXLE (DIFFERENTIAL) HL	HIGH-GRADE ENGINE OIL Temperature Range +32° F and above use SAE 20 +10° F to +32° F... use No. 20W +10° F to -10° F... use No. 10W BELOW -10° F use No. 10W plus 10% colorless refined kerosene. CHANGE OIL FILTER CAR- TRIDGE EVERY 10,000 MILES OR OFTENER IF DIP STICK INDICATES DIRTY OIL EO	SEMI-FLUID CHASSIS LUBRI- CANT NLGI No. 1 Below 32° use No. 0 CL HIGH MELTING-POINT UNI- VERSAL JOINT LUBRICANT UJ	OIL FILTER CHANGE CARTRIDGE EVERY 10,000 MILES OR OFTENER IF DIP STICK INDICATES DIRTY OIL
	FLUID GEAR LUBRICANT SAE 90 Below 32° use SAE 80 A High Grade of Engine Oil SAE 40 for Summer, or SAE 30 for Winter, may be Used as a Substitute. Never Use a Lubricant Containing Extreme Pressure Ingredients such as Sulphur, Chlorine, or Lead GL	BRAKE FLUID Lockheed No. 21 or Equiva- lent BF	UNIVERSAL ALL-PURPOSE GEAR LUBRICANT SAE 90 Below 32° use SAE 80 EP FIBRE GREASE NLGI No. 3 WB	BATTERY ADD WATER AS REQUIRED TO KEEP LEVEL ABOVE PLATES

COOLING SYSTEM

Keep the radiator filled to the correct level (approximately 1 inch below bottom of filler neck).

Never pour cold water or anti-freeze into radiator when the engine is overheated.

Check fan belt, hoses and connections periodically.

Flush cooling system before adding anti-freeze in Fall and after draining it in the Spring. In climates where anti-freeze solutions are not required, flush the cooling system twice a year.

If there is excessive loss of water from the radiator, check with your Kaiser Dealer.

Treat the cooling system of your car with "Rust Resistor" every time it is drained and refilled. (If you are using an anti-freeze solution which contains a rust resistor, this precaution is unnecessary.)

CAUTION: When removing the filler cap from a hot radiator, turn the cap toward the left until the "stop" is reached. This is the vented position which allows the pressure to escape. Keep cap in this position until the pressure in the cooling system has been relieved, then turn the cap more forcibly to the left to remove. Turn the cap all the way to the right when replacing it.

To drain the cooling system, open the drain cock in the lower front side of the radiator near the right corner. This drain cock may be reached through the air intake opening back of the front bumper. The drain cock in the cylinder block is located at the bottom of the water jacket, near the center on the left side. Both cocks should be opened to completely drain the system.

GOOD DRIVERS

1. Disengage clutch fully before shifting gears.
2. Do not "ride" the clutch pedal.
3. Keep clutch pedal free-play properly adjusted.
4. Check water in battery frequently.
5. Keep tires properly inflated.
6. Cross-switch tires every 2000 to 3000 miles.
7. Add anti-freeze at first sign of freezing weather.
8. Flush cooling system twice a year.

AUTOMOBILE MANUFACTURERS ASSOCIATION

UNIFORM WARRANTY

“The Manufacturer warrants each new motor vehicle manufactured by it to be free from defects in material and workmanship under normal use and service, its obligation under this warranty being limited to making good at its factory any part or parts thereof, including all equipment or trade accessories (except tires) supplied by the Motor Vehicle Manufacturer, which shall, within ninety (90) days after making delivery of such vehicle to the original purchaser or before such vehicle has been driven four thousand (4,000) miles, whichever event shall first occur, be returned to it with transportation charges prepaid, and which its examination shall disclose to its satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on its part, and it neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of its vehicles.”

“The Warranty shall not apply to any vehicle which shall have been repaired or altered outside of an authorized Kaiser Service Station in any way so as, in the judgment of the Manufacturer, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident.”

KAISER-FRAZER CORPORATION
WILLOW RUN, MICHIGAN

IMPROVEMENTS

THE KAISER-FRAZER CORPORATION reserves the right to make changes in design or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

TIRE WARRANTY

The tires that came with your car are guaranteed by the tire manufacturer or his agent, according to the Tire Manufacturer's Warranty.



OWNERS SERVICE POLICY

When your new Kaiser Special was delivered to you, you also received an Owner's Service Policy from your Kaiser Dealer.

Under the terms of the Policy you, as the owner of a new Kaiser Special, are entitled to a number of privileges and free services which are important to the efficient and satisfactory operation of your car.

You are also entitled to parts replacement without charge, for any parts found to be defective within the terms of the Warranty.

The Owner's Service Policy is issued by the Dealer. A full knowledge of its contents will preclude the possibility of any misunderstandings should it become necessary to consult your own, or any other Authorized Kaiser Dealer, concerning its provisions.

ADJUSTMENT REFERENCE

AXLE—FRONT

Toe-in (measured 9" from floor).....	$\frac{1}{16}"$
Caster.....	-1° to $+1^{\circ}$ 0° Preferred
Camber.....	0° to $+\frac{3}{4}^{\circ}$ $+\frac{1}{4}^{\circ}$ Preferred
Pivot angle.....	$4\frac{3}{4}^{\circ}$ to $5\frac{3}{4}^{\circ}$

AXLE—REAR

Axle shaft end play.....	.001" to .006"
Back-lash (ring gear and pinion).....	.003" to .006"

BRAKES—SERVICE

With the hand brake in full released position and the wheel free of the floor, turn the front shoe adjustment cam toward the front of the car until the shoe firmly contacts the drum, then back off the cam slowly until the wheel is just free of drag. Turn the rear shoe adjustment cam toward the rear of the car until the shoe firmly contacts the drum, then back off the cam until the wheel is just free of drag. Proceed in like manner in adjusting the shoes on all wheels.

BRAKES—HAND

The hand brake lever, through cables, controls the brakes which operate on the rear wheels. Adjustment is made at the equalizing yoke under the center of the car. Three adjustments are possible by removing the pin and replacing it in one of the three holes.

CLUTCH

Pedal free play.....1" to 1 1/4"

CIRCUIT BREAKER AND FUSES

NAME	SIZE (AMPERES)	LOCATION
Radio (Special Equipment)	20	In wire from ignition switch to radio.
Clock (Special Equipment)	2	In wire from clock to ammeter.
Electrical System Circuit Breaker		At rear of light switch.

LAMP BULB SPECIFICATIONS

C. P.	FILA- MENT	GE NO.	LOCATION	NO. REQ.
1 1/2	Single	51	Headlamp Beam Indicator	1
1 1/2	Single	51	Clock (Accessory)	1
3	Single	63	License Lamp	1
3	Single	63	Front Parking Lamps	2
21	Single	1129	Dome Lamp	1
21-3	Double	1154	Tail and Stop Lamps	2
2	Single	55	Instrument Cluster	3
2	Single	55	Instrument Panel, Name Plate	1
		4030	Sealed Beam Headlamps	2

IGNITION

Breaker point gap	.020"
Spark plug gap	.032"
Set points to open	0° top dead center
Firing order	1-5-3-6-2-4

VALVES

Tappet clearance (engine cold):

Inlet	.014"
Exhaust	.014"
Inlet opens, before top dead center	10°
Exhaust closes, past top dead center	10°

TIRE PRESSURES—FRONT AND REAR

SIZE	LBS. AT NORMAL AIR TEMPERATURE	
	FRONT	REAR
7.10 x 15"	24	24

LUBRICATION—ENGINE

Oil pressure at speeds above 30 mph	35 lbs.
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GENERAL SPECIFICATIONS

Wheelbase.....	123½"
Turning radius.....	22' average—right and left
Overall length, bumper to bumper....	203"
Overall height, loaded.....	64½"
Overall width, widest point.....	72⅞"
Tread, front.....	58"
Tread, rear.....	60"
Minimum road clearance.....	7⅛" (rear axle)
Shipping weight.....	3358 lbs. approx.
Shock absorbers.....	Hydraulic, 2-way control
Springs, front.....	Coil
Springs, rear.....	Semi-elliptic with rubber inserts, shackled at rear end, mounted in rubber bushings front and rear.
Axle, rear.....	Semi-floating type. Drive gears—hypoid. Ratio 3.73-1.
Brakes.....	Four-wheel, hydraulic, internal expanding type, 11" x 2". Two floating self-centering shoes operating on each wheel.
Propeller shaft.....	Two shafts with midship bearing mounted on frame cross-member.
Clutch.....	Single plate, 9¼" dia. sealed release bearing, ball type.
Transmission.....	Synchronous-mesh on second and third; helical gears throughout.
Engine.....	6 cyl., "L" head, bore 3⅝", stroke 4⅜", displacement 226.2 cu. in., compression ratio 7.3-1, A.M.A. horsepower 26.3, brake horsepower 100 @ 3600 rpm, spark plug size 14mm, carburetor 1¼" with automatic choke, air cleaner with silencer, oil filter.
Battery.....	105 AH, 6 volt, 15 high plate. Positive terminal grounded.

(Specifications subject to change without notice)

A MESSAGE TO KAISER SPECIAL OWNERS

The factory, as well as your dealer, has a sincere interest in the satisfactory performance and economical operation of your Kaiser Special.

Maintenance of the car in good working order greatly depends on the skill of the driver in its operation, and prompt attention to corrective measures as soon as need for adjustments and services become apparent.

Kaiser Dealers are well equipped with trained mechanics, special tools, parts identical with those used in the construction of your car, and they are kept informed by the factory on new developments and service procedures. They are, therefore, in the best position to help you get the most from your car.

Engine oil change

30. miles 1 qt SAE #10

tires rotated & balanced 329H. miles

Return after $\approx$ 4000. miles miles run.

HOW TO USE BUMPER JACK

1. Set hand brake securely, remove hub cap and loosen wheel nuts slightly.
2. Place wheel block under wheel diagonally opposite the wheel to be removed.
3. Place jack adjacent to bumper guard (nearest wheel to be removed) as shown, and raise car.

