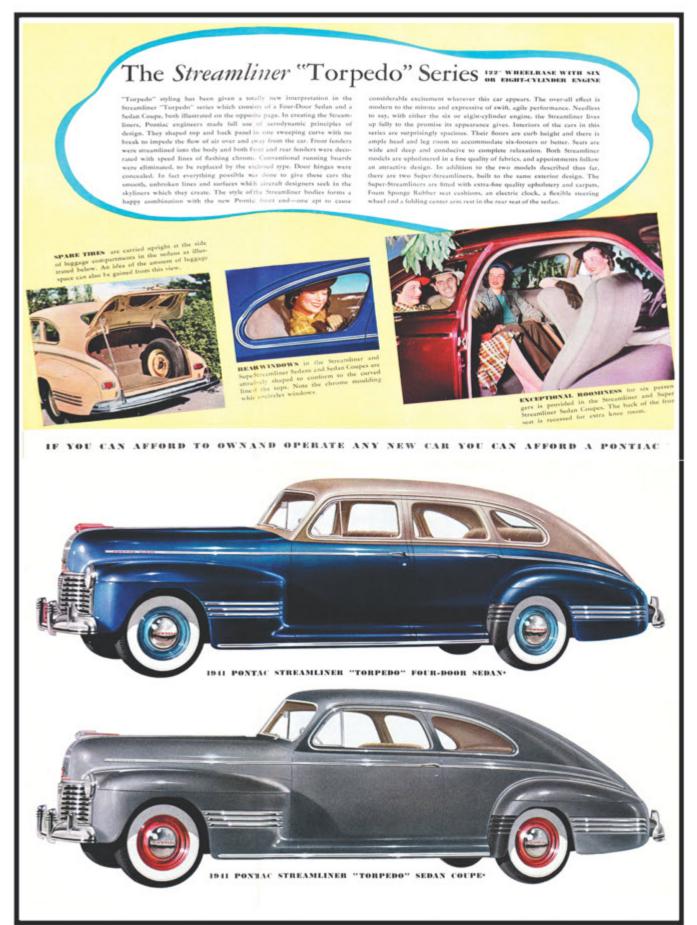






### **74 SOUTHERN WHEELS**

DECEMBER 2024

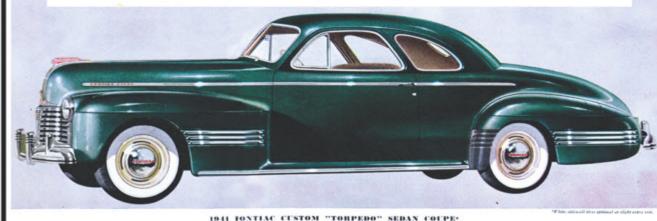


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their graceful lines and contours. The interiors of these cars match the exteriors in beauty and good taste. Upholstery, head and side lining all employ new highquality fabrics. Carpets are deep, soft and harmonious in color with the upholstery and trim. Seat cushions are of Foam Sponge Rubber and the rear seat of the sedan is equipped with a folding center arm rest. A flexible steering wheel and an electric clock are provided. A popular member of the Custom "Torpedo" series is the new. larger Station Wagon, accommodating eight passengers in three seats. Two of the seats are removable. The Station Wagon is offered with either standard or luxury type interior trim. The latter, at extra cost, includes Marshall springs and Foam Sponge Rubber cushions for the front seat, genuine leather and cloth upholstery for the front seat, genuine leather upholstery for the other seats and chrome finished tubular seat frames throughout.









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economy which many small car owners might very well envy.

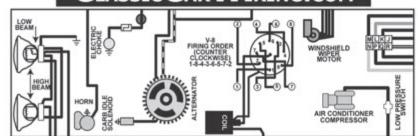
Yes, Pontiac is a big car-big in size, big in beauty, big in action. And Pontiac is easy to own -not only when you buy it, but during every

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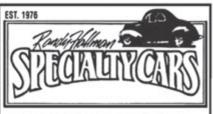
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## POP'S GARAGE



We Can Do It!

(Continued from Page 11)

"A lot-the big Cadillac V-16's, Packard V-12's and Lincolns were scrapped to get the materials to build wartime equipment. And then there was gas rationing, too," Pop continued. "We had to apply for windshield decals to be displayed in the lower right section of the windshield. Whatever your profession determined your rating. Examples were 'A' stickers for the general public, 'B'

for business owners, 'C' was used for professionals like physicians, nurses, dentists, ministers, etc., 'M' was for motorcycles and air raid wardens as well as Western Union messengers. 'T' was truck drivers, 'X' for high-mileage drivers like traveling salesmen."

"Were used-car sales controlled by the government, too?" asked Jimmy.

"No," Pop replied. "At first they considered it, but due to Americas' united effort, it wasn't needed. Parts were very hard to get. The mechanics of the day were 'true mechanics,' keeping the cars on the road by filing and re-filing points, sand blasting spark plugs, keeping everything greased, but some things the mechanics just couldn't help with. Rubber was in short supply and many had to make it through the war with one set of tires. Japan had taken over 90% of the world's natural rubber source in Indochina. To meet the emergency, America developed synthetic rubber

substitutes.

"We can't forget 'Rosie the Riveter," Tom said.

"Absolutely not," Pop agreed. "When the men left for war, the women came in to the factories-almost 19 million women helped to build planes, trucks, Jeeps, ships and munitions. The aviation industry was the greatest increase in female workers."

"What did each factory build?" Jim asked.

"A general overview would be, GM produced bombers, fighters, aircraft engines, tanks (Buick Hellcats) armored vehicles, ammunition and machine guns. Ford built B-24 Liberators, tanks, armored cars, Jeeps and amphibious vehicles. Studebaker built heavy trucks and engines for the B-17 Flying Fortresses, Packard built and improved the V-12 Rolls-Royce Merlin aircraft engines for the P-51 fighters and

produced engines for PT boats. Nash built aircraft engines and propellers, Hudson built aircraft wings and parts for the B-29 Super Fortress bombers, Chrysler tanks, Dodge trucks, tugboats and marine engines."

"It was a time in America where we came together, not only to win a war, but to make it possible for the world to be free. We should always keep that part of history alive," Jim said.

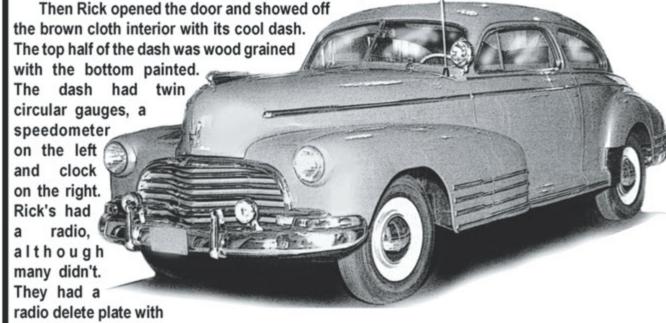
"During the war, did any of the factories have time to develop new ideas for postwar cars?" Tom asked.

"Absolutely, although it was necessary to get permission to use wartime plant production time to work on new cars. Many would meet informally at someone's house and work out ideas like Buick's gun sight hood ornament, port holes, Cadillac's fins, many automotive designers thought making the cars relate to the returning servicemen would help to sell cars. GM's Harley Earl took his design team to an air field during the war and the twin-fuselage P-38 fighter planes inspired the rear ends on the new postwar '48 Cadillacs with their all-new tail fins!"

Just then, Rick pulled in with his '46 Chevy-a Dove Gray 2-door coupe. As Rick pulled into Bay One, the guys gathered around the car. Rick's was a Fleet Master Aero Sedan, optioned out with fog lights, spotlight, bumper ends and deluxe hood ornament. It also had whitewall trim rings. These were used by Chrysler, GM and Ford after the war. They were round, white plates that covered the rims, giving the illusion of the impossible-to-get whitewall tires. They covered the rim and were held on by clips and dog dish hubcaps.

As Rick was showing the car, he said, "In '46, the model lineup was renamed with Style Master replacing the Master Deluxe and the Fleet Master replacing the Special Deluxe. The Aero Sedan was the fastback and the Sport Master Sedan was the notch back."

Rick opened the hood to show the tried-and-true straight six-a 216 CID introduced in 1937 that would continue through 1953 in one model. "It's a tough old engine," he said. "A four-bearing crank with 90 horse power. What's interesting about this engine is its lubricating system. It's not a fully pressurized oiling system. The main bearings are pressurized, but the connecting rods were oiled using an oil trough built into the oil pan that had spray nozzles that squirt a stream of oil at the connecting rods, which are equipped with dippers and they supply oil to the rod bearings. The rod bearings are made of babbitt cast integral with the rod and can be adjusted for wear by removing copper shims placed between the rod cap and connecting rods. This allows specific oil clearance to be maintained. I don't use an oil filter on these old 216's. I think they need all the unobstructed oil flow they can get (just my opinion)."



a"bow tie" emblem in the center.

"It's really a nice example of Chevy's first postwar cars," Pop said. "Is all well with her?"

"Most everything, Pop," Rick answered. "The lights have started flickering."

"Have you checked all connections and made sure all the fuses are seated properly?"

"Yes, I have, Pop. The problem started when I put in a new head light. The head light socket has its original cloth covered wire."

"Let me look at the wire connections at the head light you replaced."

Pop saw something in the wire covering that would cause the flickering problem.

Do you know what it was?

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(Answer on Page One)

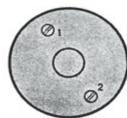
# Southern Wheels TECHNICAL SERVICE BULLETIN

While we usually concentrate on late '30's, '40's, '50's and '60's cars, our readers have mentioned to us the diffisulty in finding technical information about their '20's and early '30's cars. WE have manuals going back into the teens, so we are happy to share that information our readers have asked for.

## Generator Charging Adjustments

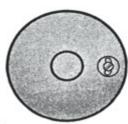
On the following pages is shown the method of adjusting the generator charging rate on practically every make of motor car. With the third brush type of generator output regulation it is well to bear in mind that moving the brush in the direction of the armature rotation increases the charging rate and moving it

against the direction of rotation decreases the output. On 6-volt batteries the charging rate for summer should be 8 to 10 amps. For winter, 15 to 18 amps. On 12-volt systems these figures should be 3 to 5 and 8 to 9 amps. respectively.



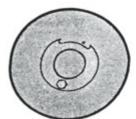
Not necessary to loosen Cover Band. Loosen bottom locking screw (b) and adjust by turning top screw (a). Relock.

Dodge Early 1926



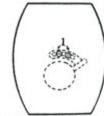
Not necessary to remove cover band. Remove small plate on end housing. Loosen small locking nut and adjust by moving stud in slot. Relock.

Velie Early 1925



Not necessary to remove cover band. Loosen hex. head locking stud. Shift plate by hand. Relock.

> Hudson 1925 Hudson Early 1926



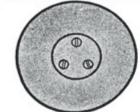
Loosen cover plate. Loosen two screws in third brush arm one or two turns. Increase or decrease length of arm. Tighten screws. Reseat brush with OO sand paper.

Cadillac 1924-25



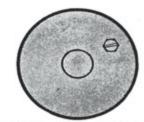
Loosen cover plate. Loosen third brush plate adjusting screw 1 one or two turns. Shift plate by hand. Tighten screw.

Buick Stan. & Master 1925



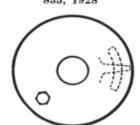
Loosen cover band. Loosen the three screws in the bearing retainer plate (on commutator end of generator) one or two turns. Shift third brush mounting plate by hand. Tighten screws.

Durant 1925 Durant 1926



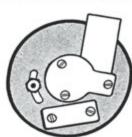
Not necessary to loosen cover band. Shift third brush by turning hex. headed screw.

Graham-Paige 619, 629, 835, 1928



Loosen cover band. Loosen hex. headed locking screw which releases brush mounting plate. Shift third brush by means of extension handle. Relock,

Pierce-Arrow 33 1927



Not necessary to loosen cover band. Loosen hex. nut and move in slot. Relock.

> Hupmobile E 1925 Stutz (early) 1927

## Southern Wheels TECHNICAL SERVICE BULLETIN



Loosen cover band. Loosen locking screw which releases brush mounting plate. Shift by hand. Relock.

Auburn 8-63, 8-88 1925 Auburn 1926 Auburn 1927-28 (All Models) Auburn 1929-30 (All Models)

Buick 1927-28 Buick 1929-30

Chandler 6 & 8 1927 Chandler 1928 (All Models) Chevrolet 1926 Chevrolet 1927-28 Chevrolet 1929-30 Chrysler B 1925

Chrysler 58-70 1926 Chrysler 1928-30 (All Models)

De Soto (All Models)

Dodge 1930 Elcar 1926 & 27 Elcar 1928-30

Erskine 1928 rdner 8A 1925

Gardner 8A, 1925-26 Gardner 1927 Gardner 1928-30

Hudson 1929

Kissel 1927 Kissel 1928-29

Locomobile 90, 8-66 1927 Locomobile 8-70 1928

Marmon L 1927 Marmon 68, 78 1928-29

Marquette 1929-30 Moon 6-72 8-80 1928

Nash Spec. 1927 Nash Spec. 1928

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Oakland 1927 Oakland (All Am.) 1928-30 Oldsmobile 30E (Later) 1927

Oldsmobile F-28 1928-29

Packard 1928-29

Peerless 6-91 1928

Plymouth 1928-30 Pontiac 6 1926-27

Pontiac 6 1928-29 Reo Flying Cloud 1927-29

Roosevelt 1929-30

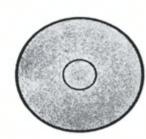
Studebaker (All Models) 1926

Studebaker late 1927 and 1930

Stutz late 1927

Velie 77-88 1928 Velie 60 1926-27

Velie late 1925



Loosen cover band. Shift third brush by hand. Mounting plate held in any position by friction clamp washers.

> Ajax 1926 Cadillac 341B

Durant (All Models) 1928-30

Essex (Late) 1926 Essex 1927

Essex 1928-30 Falcon-Knight 1928

Flint 1926-27 Hudson (Late) 1926

Hudson (Late) 192 Hudson 1927-28

Hupmobile 6 1926-27 Hupmobile 8 1926-27 Hupmobile 6 & 8 1928-30

Jordan 1926 Jordan 1927 Jordan RE & JE 1928-29 LaSalle 1928-29

Nash 1926 Nash Light & Adv. 1927

Nash Stand. & Adv. 1928-29

Oldsmobile 1926

Overland 91 & 93 1926

Peerless 1926

Peerless 6-60, 6-80, 6-90 1927-29

Star 4 & 6 1926

Star 4 & 6 1927

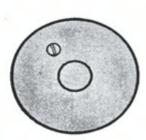
Stutz BB 1928

Velie 50 1927 Velie 66 1928

Whippet 1927

Whippet 4 & 6 1928-30 Willys Knight 66, 70 1926 Willys Knight 66-A, 70-A

Willys Knight 4 & 6 1928 Willys Knight 56 1928-29



Not necessary to loosen cover band. Shift brush by turning small screw over oil cup.

> Chandler 1925 Chandler 1926

Cleveland (Early) 1925 Cleveland 1926

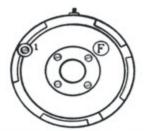
> Dupont 1926 Dupont 1927

Locomobile Jr. 8 1926 Reo 1925

Willys Knight 66

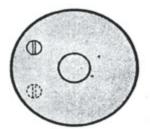
Continued

# Southern Wheels TECHNICAL SERVICE BULLETIN



Remove cover cap. Shift third brush by turning ad-justing screw 1.

#### Franklin Airman 1928-29 Packard 6 & 8 1925



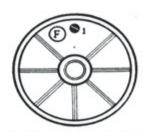
Loosen cover band. Loosen filister head locking screw to left of oil cup. Shift third brush by hand Tighten screw.

> Auburn 1923-1925 Chevrolet K 1925 Paige 1925 Stutz 1925



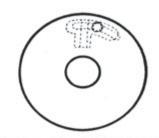
Not necessary to loosen cover band. Insert special Bosch wrench thru hole above oil cup. Shift by turning wrench. Mounting plate held in position by friction clamp washers. This adjustment can be made without wrench by loosening cover band and shifting third brush by hand.

Cleveland (Late) 1925 Essex 6 1925 Essex 1926 Lexington 1926



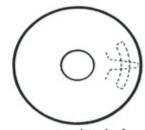
cover band. Adjusting screw 1 moves entire brush rig. Third brush cannot be moved without changing position of main brushes.

#### Dodge 1928 (All Models) Graham-Paige 1928-30



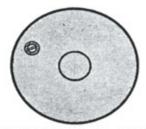
Loosen cover band. Loosen hex. nut which clamps brush mounting to end housing. Shift by hand.

#### Flint 1925 Overland 1925 Star 1925



Loosen cover band. Loosen hex. headed locking screw which releases brush mounting plate. Shift third brush by means of exten-sion handle. Relock.

> Case Y 1927 Cunningham 1925-26 Davis 1925-26 Diana 1926 Duesenberg 8 1927 Elcar 6-60 1925



Not necessary to remove Cover Band. Loosen screw in center of knurled nut Adjust by turning knurled nut. Relock.

> Franklin 1925 Franklin 1926 Franklin 1927



Not necessary to loosen cover band. Loosen hex head lock screw. Shift third brush by turning other hex. head adjusting screw. Re-

> Dodge late 1926 Davis 92 1927 Diana 1927

Elcar 8-80 1925 Jordan 1925 Marmon D-74 1925 Marmon 74 1926 Marmon E-75 1928 Moon A 1925-26 Moon A 1927 McFarlan 1926-27 Nash 1925 Peerless 1925 Peerless 6-72, 69 1927 Pierce-Arrow 1926 Pierce-Arrow 80 1927 Wills St. Claire 1926-27

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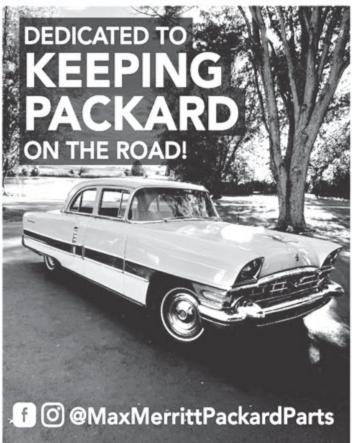
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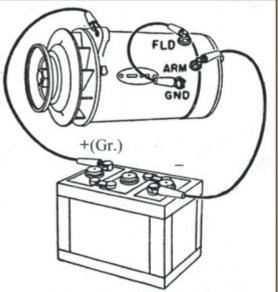
# & **VOLTAGE REGULATOR** ON A



few months ago, you might remember I said the '51 Packard Mayfair Coupe is finished, and I will drive out the flaws and repair whatever comes up. Well, the car wandered all over the road, and I thought it was the bias ply tires (I have a set of 8:20 x 15 4.25" wide Firestone bias ply tires on it.) These have been on it several years, and sat in one place while I was restoring the car. They had flat places on them, which quickly rounded out as I drove it. I found lowering the tires' air pressure (24 lbs.) helped, but that wasn't it: it was the shocks!

I am in the middle of our next project finishing my '53 Buick Roadmaster 2 dr, and thought I would have the shocks replaced by an outside shop. I bought a new (front) set of Monroe shocks and let the outside shop do it. When I got the car back, the generator light was on. I noticed the light flickering on the way over, so I don't hold them responsible. Through 1950, Packard used an amp gauge on the dash that used the traditional (-, +) readout and in 1951 they changed to a light. There is a "red" light (Battery) that comes on in the dash and goes off when the car is started, assuring that the generator is charging. When I got the '51 back, the red light was on and stayed on(?).

I tested the generator, Delco-Remy 110745 1F1, to see of it worked, (It is a 6-volt positive ground system.) and there are multiple ways that you can check the generator: 1) Run a wire from the "Field" screw to a ground (engine block) or any good ground, and rev the engine up to 1000 RPMs. If the generator takes off and starts climbing over 1000 RPMs, it's putting out and must be disconnected quickly! The dash red light will go out when this test is done. If NO output is indicated on the dash ammeter, the trouble is in the generator, but if the ammeter shows a charge, the trouble lies in the voltage regulator or wiring. I couldn't get this test to work, so I took the generator off the car using it as a "motor." This worked! And my generator was bad. I found a rebuilt generator (no core) online. I tested it the same way, motored it, and it tested good. When the new generator was sent to me, the wire hookup Field/Ammeter screws were not positioned where they



Connections for running generator as a motor. Be sure to connect the generator with the same polarity that it any charge outwill have when it is installed on the car put! I knew the

were on top of the generator as before, but now were positioned where you had to get to the wire hookups from under the car.

This is awkward, and Steve had to screw down the wires, because the convenience of top-mounted wires was now gone. When I have my old generator rebuilt, I can have them set correctly, but to change them now would have to do with removing the "front" mounting bracket and rotating it up, which could pull the wires or void my warranty, so I will have to leave them alone for now.

With the generator back on and hooked up, I still wasn't getting

generator was good, so I used my multimeter. On these old cars, I always use an analog multimeter. The digital ones are not accurate. So I set the selector on "10 Volt, DC Current" (nearest setting to 6 Volt)





and grounded one lead and put the other lead on the voltage regulator "generator" with the car running. It







showed no reading-the voltage regulator was bad! So I replaced it with an NOS one, a Delco-Remy 6 Volt positive ground, part # CONTINUED D-607 #1118828 regulator. First, I cleaned off the contact points with a point file, used black electrical tape all around the contacts before polarizing. To polarize, momentarily touch the "Bat" and "Gen" posts (not Field). The tape kept me from touching the metal casing and Field by mistake. Because the fender of the car is so high, I just didn't want to take a chance of touching the wrong leads. After the battery and generator posts were touched, the electrical tape was removed and the car now started right up and the Red "Battery" light went off as soon as the car started.

I have had generator/voltage regulator dilemmas before, such as my 1936 Packard Super 8 (gear driven generator), but I think this was more of a hassle, probably because of the height of the car. I just couldn't see the bottom of the voltage regulator, but the black electrical tape masking the metal around the "Batt," "Gen," "Field" screws did the trick. It's fixed, and with the new shocks, handles well. The new shocks are Monroe #5751, made in USA, and they were put on as follows:

#### Front Shock Absorber Removal

To remove the front shock absorbers, raise the car until there is sufficient ground clearance to permit the shock absorber to be removed through a hole in the bottom of the lower support arm. Using an offset screwdriver, insert the tool in the slot of the shock absorber upper extension. While holding the top shock absorber extension, remove the shock absorber nut washers and grommet.

From underneath the lower support arm, remove the nuts holding the shock absorber retaining bracket to the bottom of the lower spring seat and remove the shock absorber. The bracket may then be removed from the shock absorber by holding the shock absorber body in a vise, unscrewing the nut and removing the rubber grommets.

#### Front Shock Absorber Installation

Before installing the shock absorber, check the resistance of the shock absorber to determine if it should be replaced. If the shock absorber lacks resist-

ance, if there is excessive free play in its operation, or if the shock absorber is binding, install a new shock absorber.

Hold the shock absorber retaining bracket in a vise. Install the shock absorber retaining bracket on the shock absorber lower extension. Slip rubber grommet and washers on the shock absorber extension. Install the nut and tighten to a torque of 12 to 18 foot pounds.

#### **Extension Grommet Retaining Nut**

Extend the shock absorber and insert it in the opening in the lower support arm with the top shock absorber extension extending through the pilot hole in the top of the frame cross member. Slip the rubber grommet and washers over the extension and screw on the nut. Insert a screwdriver in the slot of the extension, and tighten the nut to a torque of 12 to 18 foot pounds. Position the retainer bracket on the bottom of the lower support arm and attach the screws. Tighten the retaining bracket screws to a torque of 15 to 18 foot pounds.

## SUSPENSION AND STEERING TROUBLE SHOOTING AND CORRECTIVE MEASURES

CONDITION	POSSIBLE CAUSE	CORRECTION
Excessive free play in steering system.	(a) Steering gear out of adjustment or badly worn.	(a) Adjust the steering gear or recondition the steering gear with new parts.
	(b) Steering connecting rod or cross tube ball joints loose or worn.	(b) Tighten the connecting rod nuts or replace the cross tube ball joints with new parts.

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	(c) Steering knuckle pins, bushing or bearings worn.	s, (c) Replace the worn parts.
	(d) Wheel bearings out of adjustme or worn.	nt (d) Adjust the wheel bearings to proper torque or replace them with new bearings as necessary.
	(e) Loose steering gear Pitman are	<ul> <li>(e) Tighten the Pitman arm nut to proper torque or replace the arm if it is worn on ball end.</li> </ul>
	(f) Loose steering knuckle levers.	(f) Tighten the steering knuckle lever nuts.
	(g) Steering idler arm bearing loos or worn.	se (g) Tighten the idler arm nut or re- place the rubber bushings if worn.
2. Hard Steering.	(a) Lack of lubrication or improper lubricant in steering gear.	er (a) Lubricate the steering connections until they work freely, or change to the proper lubricant.
	(b) Low or uneven tire pressures.	(b) Inflate all tires to the pressure recommended by the manufacturers.
**	(c) Oversize tires.	(c) Replace all oversize tires with the proper size as specified for the chassis.
	(d) Steering gear or steering conne- tions adjusted too tight.	c- (d) Adjust the steering gear and con- nections to their proper torque.
	(e) Steering gear to frame misalignment.	n- (e) Align the steering gear to the frame.
	(f) Suspension support arms bent of twisted.	or (f) Replace with new support arms.
	(g) Steering knuckle bent.	(g) Replace with a new steering knuckle.
	(h) Frame bent or out of line.	(h) Straighten the frame.
	(i) Improper caster.	(i) Adjust the caster.
3. Erratic steering or swerv- ing on application of brakes.	(a) Low or uneven tire pressure.	(a) Inflate all the tires to pressure specified by the manufacturer.
	(b) Brakes incorrectly adjusted.	(b) Adjust the brakes.
	(c) Brake fluid or grease on the brake lining.	(c) Use a suitable cleaner to remove the brake fluid or grease from the lin- ing and readjust the brakes if neces- sary.
	(d) Incorrect or uneven caster angle.	(d) Adjust the caster to specifications.
	(e) Worn bushings or pins in lower support arm and vertical wheel sup- port.	(e) Replace the worn bushings or pins with new parts.
	(f) Steering knuckle bent.	(f) Replace with a new part.
		CONTINUED
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	(g) Steering connecting rod bent or out of alignment.	(g) Replace with a new part and reset the toe-in.	
	(h) Front end stabilizer bar or bearing bracket broken.	(h) Replace with new parts.	
4. Car pulls to one side.	(a) Tire size uneven.	(a) Replace the tire with one of the proper size.	
	(b) Low or uneven tire pressure.	(b) Inflate the tires to the pressure recommended by the manufacturer.	
	(c) Brakes dragging or unevenly adjusted.	(c) Check the brake pedal free play adjustment or adjust the brakes.	
	(d) Incorrect or uneven camber or caster.	(d) Adjust the caster or camber to the proper setting.	
	(e) Steering knuckle lever bent.	(e) Replace the bent lever with a new part.	
	(f) Upper or lower support arm bent.	(f) Replace with new arms and re- check the caster and camber.	
	(g) Frame bent or out of line.	(g) Straighten the frame to proper dimensions.	
	(h) Rear axle shifted.	(h) Replace the rubber insulators be- tween the spring and support and tighten the U-bolts.	
5. Steering wander or road weave.	(a) Low or uneven tire pressure.	(a) Check and inflate all tires to the proper pressures.	
<ol><li>Steering wheel "kick" or road shock.</li></ol>	(a) Steering gear incorrectly adjusted.	(a) Adjust the steering gear.	
Ŀ	(b) Steering connecting rod ball joint spring tension incorrectly adjusted.		
	(c) Broken springs in steering connecting rods.	(c) Replace with new springs.	
	(d) Worn cross rod ball joints.	(d) Replace with new ball joints.	
	(e) Bent steering knuckle.	(e) Replace with a new part.	
	(f) Worn steering knuckle pins, bushings, or bearings.	(f) Replace with new parts.	
	(g) Incorrect tire pressure.	(g) Inflate all tires to the proper pressure.	
	(h) Wrong type or size of tires.	(h) Replace the wrong type tires with proper size tires.	
7. Steering gear rattle or chuckie.	(a) Insufficient amount or improper lubricant in steering gear.	(a) Lubricate or replace with the proper lubricant.	
	(b) Excessive clearance between worm and cross shaft roller.	(b) Adjusting the steering gear.	

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	(c) Badly worn or damag gear parts, preventing pro- ment.		(c) Replace all badly worn and damaged parts and readjust.	
	(d) Excessive clearance rod connections.	at steering	(d) Tighten the connections or re- place the worn parts.	
	(e) Steering gear (pitman) on cross shaft.	) arm loose	(e) Tighten the pitman arm to the proper torque.	
	(f) Excessive looseness in on idler bracket.	idler arm	(f) Replace the worn parts.	
	(g) Steering gear loose or	n frame.	(g) Tighten the steering gear to the frame side member.	
	(h) Steering column lo bracket.	ose at the	(h) Tighten the steering column bracket.	
8. Low speed shimmy (wobble).	(a) Wheels and tires out of	of "true."	(a) True up the wheels.	
(HODDIO)	(b) Bent wheel or hub.		(b) Replace the bent wheel or hub.	
	(c) Wheels unbalanced.		(c) Balance the wheels statically and dynamically.	
	(d) Low or uneven tire p	ressure.	(d) Inflate the tires to the pressures recommended by the manufacturer.	
	(e) Boot or vulcanize spo	t in tire.	(e) Replace with a new tire.	
	(f) Steering gear out of adjustment.		(f) Turn the adjusting screw on the steering gear case until the pull on the steering wheel with scale through the high spot position is 1½-2 pounds.	
	(g) Loose or worn steering rod ball joints.		(g) Replace the ball joint ends.	
8. Low speed shimmy (wob- ble). (Continued)	(h) Caster, camber, or toe-in improperly set.		(h) Reset to the proper dimension.	
	(i) Shock absorbers incumbalanced resistance.	operative or	(i) Replace with new shock absorbers.	
<ol><li>High speed shimmy (wheel tramp).</li></ol>	(a) All causes listed under low speed shimmy.		(a) See low speed shimmy (wobble).	
	<ul><li>(b) Static and dynamic unbalance of wheels (front and rear).</li><li>(c) Loose or broken body bolts.</li><li>(d) Loose engine mountings.</li></ul>		(b) Balance all wheels.	
			(c) Tighten all body bolts to the proper torque or replace the broken bolts.	
			(d) Tighten the engine mountings to proper torque.	
See you next month. Merry Christmas,				
and keep 'em driving!	,	Our th	nanks to Ron Carpenter and Steve Bailey	

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1957 "E" Thunderbird, Red ext, white Int, Black soft top. 312 eng, 2x4 carb, Auto, p/steering, p/brakes, TC Radio, wire wheels and wide white wall tires. AACA JR and SR winner. \$82,500



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black soft top, p/steering, p/brakes, wire wheels, wide white wall tires, 3 spd OD. \$45,500



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