# HUDSON

Commentallement

Dedicated to the interest of

VOL. 4 NO. 3

field service, parts and accessory merchandising.

MARCH, 1952



# SAN DIEGO HARP MEETING

Wednesday, January 23, the HARP meeting in San Diego, California, was attended by a representative of every Dealer in that area.

Presiding at the meeting was Mr. James E.

Foster, Division Parts and Service Manager, assisted by Mr. Joe Wm. Reeve, Zone Parts and Service Manager. The chart details were presented by District Manager Tom Newell.

HUDSON MOTOR CAR COMPANY.. DETROIT 14, MICHIGAN

# TORQUE SPECIFICATIONS

		Recommended
	Dia. & Thread	Torque
Location of Bolt or Stud	of Bolt or Stud	(Ft. Pounds)
Battery Hold-Down Bolt Nut	5/16–24	2-3
Brake Anchor Pin Nut		
Brake Control Tube Nut		
Breather Tube & Valve Chamber Cover Bolt (8 Cyl.)		
Camshaft Gear Bolt		
*Clutch Throwout Finger Retainer		
Clutch Cover Bolts.		
Clutch Cover Driving Lug.		
Clutch Housing Cap Screw		
Clutch Housing to Cylinder Plate Bolt.		
Clutch Housing to Cylinder Bolt		
Connecting Rod Bolt		
Cylinder Head Cap Screws (6 Cyl.)		
Cylinder Head Studs (8 Cyl.)		
Cylinder Water Jacket Cover Bolt (8 Cyl.)	5/16–18	12–15
Cylinder Support Plate Bolt		
Cylinder Head Water Outlet Bolt		
Diff. Carrier to Housing Bolt		
Engine Rear Mtg. to Cl. Hsg. Bolt		
Engine Front Mounting Bolt		
Engine Rear Mounting to Frame Bolt		
Exhaust Manifold Stud		
Flywheel Bolts		
Front Frame Anchor Bracket Bolt		
Gas. Tank Strap Bolt (Rear) Nut	DESCRIPTION OF THE PARTY.	
Intake Manifold Stud		
Oil Pan Bolt		
Overdrive to Trans. Case Bolt		
Pedal Rod Nut		
Prop. Shaft Companion Flange Nut (Rear End of Frt. Shaft)		
Prop. Shaft "U" Bolts		
Prop. Shaft Center Brg. Supt. Bolt (To No. 6 c/m)		
Prop. Shaft Center Brg. Supt. C/M Bolt (To No. 5 C/M)		
Prop. Shaft Center Bearing Housing Support Bolt		
Rear Axle Differential Case Cap Screw		
Rear Axle Wheel Bearing Adjusting Cap Bolt Nut		
Rear Axle Drive Gear Bolt		
Rear Axle Differential Carrier Bearing Cap Screw		
Rear Axle Drive Shaft Nuts		
Rear Spring Clip Nuts	1/2-20	40.50
Rear Shock Absorber Stud (Lower) to Clip Plate Locking Nut)		
Rear Shock Absorber Bracket (Upper) Bolt Nut		
Strg. Arm (Outer) Nut		
Strg. Spindle to Backing Plate Bolt Nut		
Strg. Spindle Nut (To Attach Wheel Hub)		
Strg. Spindle Support Clamp Bolt		
Strg. Arm (Center) Pivot Locknut (Self Locking)		
Strg. Spindle Supt. Arm (Lower) Pivot to Frame Bolt		
Strg. Spindle Supt. Arm (Upper) Pivot to Frame Bolt		
Strg. Spindle Supt. Arm to Support Bolt Nut	13/16-11	100–120
(*Back Off 2 to 3 Castellations and Insert Cotter Pin)		
PARTY AND THE PA		

<sup>\*\*</sup>Minimum 40 Ft-Lbs. on recheck after assembly.

	& Thread olt or Stud	Torque (Ft. Pounds)
Steering Arm (Center) Pivot Support Bracket Bolt	7/16–20	45–50
Sports Pluge	14 M.M	25-30
Speedometer Housing Screw	7/16–20	50–60
Steering Gear Shaft Nut	//8-14	123-140
Steering Wheel Nut	5/8-18	20-30
Tie Rod End Stud Nut. Timing Gear Cover Bolt.		15–20
Trong Comp Flange Locking Nut (To Mainshaft)	3/4-16	90–100
Vibration Dampener Can Screw	3/4-10	100-120
Water Pump Fan Blade Bolt	5/16–18	12–15
Wheel Hub Bolts	1/2-20	60–65

### STARTING 1952 A WINNER

The Hudson Hornet has started the 1952 stock car racing season in spectacular fashion, when on January 19, it took first place at Palm Beach, Florida, in a 100-mile race on a half mile track. Twenty-six cars were entered.

The winning Hornet was driven by Tim Flock who, as you know, drove another make in 1951. When Hornets consistently beat him, he switched to a Hornet himself. Neither Marshall Teague nor Herb Thomas drove in this race, as they are busy preparing their cars for the Daytona Beach classic which will be run on February 10th.

Another Hornet in the race became involved in a multicar smashup. The car turned end for end three times but the driver walked away unharmed.

February 10th—Daytona Beach Stock Car race. Covering the 150 miles of this hazardous course in 1:46:19, for an average of 84.65 miles per hour, Marshall Teague won the National Stock Car Championhsip for the second year.

Starting in sixth place, his 1952 Hudson Hornet jumped to first place at the end of 4½ mile beach road course. Herb Thomas of Oliva, North Carolina, was second in another Hudson Hornet, following winner at three-quarters of a lap.

# SUGGESTION CONTEST OPEN TO ALL HUDSON SERVICE PERSONNEL

Three prizes are offered each month by the Service Merchandiser for suggestions from mechanics—parts men—and service men.

All that is necessary to get into this contest is to submit your suggestion pertaining to service—short cut—special tool—a new and easier way to do something—parts or accessory display—anything that makes for better service. Include a photograph or sketch with your suggestion. The names of the winners and their suggestions will be published in the Service Merchandiser.

There is no doubt but that there are probably thousands of these suggestions in the field among Hudson Service Personnel that would win prizes. Please bear in mind the Merchandiser is your paper and by sending in your suggestion, you may not only win a prize

but would also assist many other service men in the Field.

Checks will be mailed to those whose suggestions may win first, second and third prize each month just as soon as the judges have made their decision. Do not hesitate or delay; your suggestion may be a winner.



FOR 1952

Available through your Zone Parts and Service Manager.

News of your Parts and Service Manager's Club activities is of interest to all Field Service Personnel. Please let us have the details of your meetings and a photograph of your Club Membership Group for publication in the Service Merchandiser.

# **OWNER MANUALS FOR 1952**

Complete shipment has been made to all Zones and Distributors of 1952 Owner Manuals for all cars that were shipped without them.

Here is an opportunity to contact those Owners for the Manual delivery. Should an Owner's car be equipped with a Radio, see that the warranty tag is attached. If you have not already done so, do not fail to make a record of the ignition and door keys, also the paint color code number.

Regardless of whether the Manual is delivered in person or mailed to the Owner, be very sure to properly fill out both the Service Certificate and Owner Identification Card.





Dirty Oil Filters
Worn Fan Belt and
Radiator Hoses
Engine Repairs
Car Appearance—Liquid
Glaze
Bad Brakes
Weak Shock Absorbers
Poor Steering
Leaky Tail Pipes and
Mufflers
Replacing Spark Plugs

MR. PARTS AND SERVICE MANAGER:

The next five months are the best for selling PARTS AND ACCESSORIES.

DON'T MISS THIS OPPORTUNITY TO CASH IN!

Parts Manager.., should CHECK with each retail customer for related items—develop attractive displays of parts and accessories that have spring and summer demand—remember the wholesale trade is also a big customer for Hudson parts—ask them to buy from you.

Service Manager . . . have a SERVICE CHECK program . . . carefully checking each customer's car for parts or accessories that need replacing. Don't wait for the customer to ask—better to ask the customer.

C 175670

C 175554

C 175924

C 175669

C 175555

C 175557

# BODY LACQUERS-SERIES "B" 1952

Listed below are the Code Numbers of the various Colors and Du-Tone Combinations of the 1952 Series "B" Car Lacquer. A Code Letter or Number indicating the paint color is stamped on the upper hinge of the

right front door. Shown also are the Part Numbers of the Wheel Enamel and Miscellaneous paints, also the Part Numbers of the various container sizes.

the paint co	olor is stampe	d on the upper	r hinge of the	Part Numb	ers of the various conta	iner sizes.
Pint C 175500 C 175637 C 175972 C 175970 C 175979 C 175968 C 175971 C 175798 C 175798 C 175799 C 175872 C 175967	Quart C 175501 C 175638 C 175962 C 175960 C 175805 C 175958 C 175961 C 175806 C 175807 C 175873 C 175957	Gallon C 175502 C 175503 C 175952 C 175950 C 175813 C 175948 C 175951 C 175814 C 175815 C 175874 C 175947	3 Oz. Can HS 175379 HS 175660 HS 175982 HS 175980 HS 175978 HS 175981 HS 175822 HS 175823 HS 175875 HS 175875	Texas Tan Southern B Jupiter Gra Jefferson G Symphony Broadway I Naples Gre Toro Red French Gra	Name k. (light opal.) lue ay (opal.) rreen (light opal.) Blue-Green Blue en (dark opal.) ight ay	
			DUO-TONE CO	MBINATIO	NS .	
			Code			Code
Boston Ivo Ebony Blac			100		ck - upper) ny - lower	107
French Gra Broadway	y - upper) Blue - lower)		101	Toro Red French Gra	- upper) ay - lower) · · · · · · ·	108
			102		Blue - upper)  y - lower)	109
				Jefferson G French Gra	Green - upper) ay - lower	110
Naples Gre	en - upper) reen - lower)			Boston Ivo		111
Boston Ivon Texas Tan		****	105	Symphony Boston Ivo	Blue-Green - upper) ry - lower)	112
French Gray - upper 106 Toro Red - lower 106			Texas Tan - upper Boston Ivory - lower 113			
					Green - upper) ry - lower	
SYNTHETIC WHEEL ENAMELS						
C 175693 C 175615 C 175833 C 176002 C 176000 C 175831 C 175998	Cream Texas Tan . Southern Blu Jupiter Gray Jefferson Gre Symphony E	een	* * * * * * * * * * * * * * * * * * *	C 176001 C 175832 C 175879 C 175876 C 175997 C 175826	Broadway Blue Naples Green Toro Red French Gray Boston Ivory Ebony Black * Retained from Ser	* * * * * * * * * * * * * * * * * * *
MISCELLANEOUS						
Pint		uart	Gallon	Waterhaam	Name	

C 175671

C 175556

C 175558

C 175559 C 175560 C 175561 Velechrome Lacquer

Red Primer Surfacer

Chassis Enamel - Black Engine Enamel - Bronze

Lacquer Thinner
Lacquer Thinner - Five Gal. Container
Lacquer Thinner - 55 Gal. Container

Answers to the following questions will appear in the April Service Merchandiser:

- The Hudson Rear Axle is a three-quarter floating type. True or false?
- Drive gear and pinion used are of the spiral bevel type. True or false?
- Noise attributed to rear axle differential is sometimes caused by defective rear wheel bearings.
   True or false?
- 4. Use of a knockout rear wheel puller and heavy hammer is not detrimental to the differential. True or false?
- To adjust bearing preload on drive pinion bearing, shims are transferred from the front to the rear shim pack or vice versa. True or false?
- Drive pinion bearing preload should be in a range of from: (a) 8 to 15 inch pounds\_\_\_\_\_; (b) 12 to 18 inch pounds\_\_\_\_\_; (c) 17 to 32 inch pounds\_\_\_\_\_.
- The drive pinion bearing preload should be checked with the pinion shaft oil seal installed. True or false?
- 8. Pinion shaft end play should be:
  (a) .000"\_\_\_\_\_; (b) .002" to .004"\_\_\_\_\_
- What is the torque specification for tightening the pinion shaft nut?
- Runout of the differential case flange should not exceed .002". True or false?

Following are the answers to questions contained in the February Service Merchandiser:

- True. The front suspension used on Hudson cars is the parallelogram system of independent front wheel suspension.
- The first step preparatory to front wheel alignment is to locate steering high point.
- 3. 1. Notch in upper end of steering tube.
  - 2. Centralize by counting turns and dividing.
  - Adjust cross shaft roller mesh in until high point can be felt.
- Front wheel toe-in should be 0 to 1/16 equalized on both wheels.
- Correction of steering wheel spoke position to right or left can only be made by removing the steering wheel and turn one or more serations to right or left on the serrated taper of the steering tube.
- 6. (a) Cross shaft for meshing depth.
  - (b) Worm gear for end play.
- Before front wheel alignment is checked or adjusted, tire air pressure must be checked and corrected.
- True. Weak coil springs or incorrect shock absorber action can affect front wheel alignment.
- The riding height of front suspension is 31<sup>5</sup>/<sub>16</sub> inches. See Figure 1, Page 162 of 1951 Procedure Manual.
- A tracking gauge is used to detect misalignment of front suspension or rear axle.

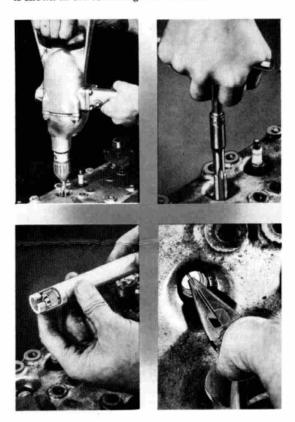
### REPAIRING STRIPPED THREADS

The danger of stripping threads is reduced to a minimum where the mechanic uses a Torque Wrench and follows the recommended tightening shown in the Torque Chart reproduced in this issue.

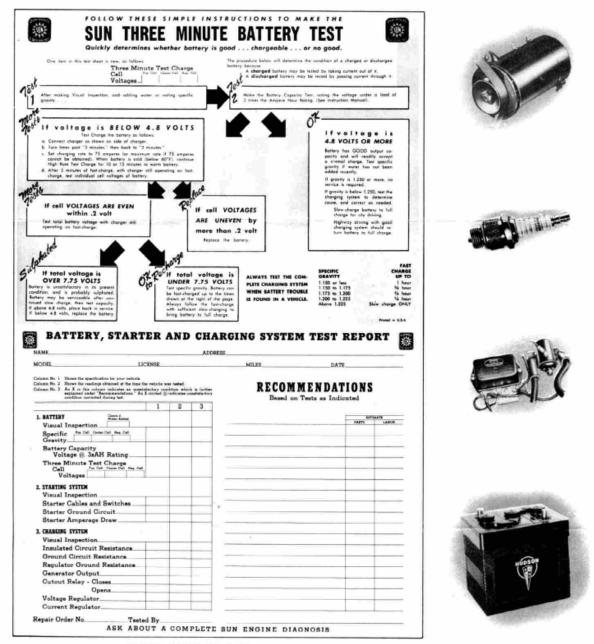
Stripped threads do occur occasionally, however, and the important thing then is to know just what the proper method of repair should be.

For quite a number of years our Production Department have used the Heli-Coil stainless steel inserts to repair broken or stripped threads. This method offers a time-tested and approved system of repairing stripped, broken or worn threads and at a comparatively low cost.

The step by step procedure of installing the Heli-Coil is shown in the following illustrations:



No doubt many Hudson Dealers have these tools. For those who do not have them, there are approximately three hundred Heli-Coil jobbers and Dealers throughout the United States and you may find one listed in your local Telephone Directory.



# NEW SUN PROCEDURE FOR BATTERY ANALYSIS

The new method developed by the Sun Electric Corporation for determining the actual state of a battery—whether it may be recharged or has reached a state where a replacement is in order—is outlined in a systematic step by step operation shown in the chart above.

Following the results of this test and assuming the car owner purchases a new battery, a detailed test and examination is made for all conditions that might lead to a repetition of battery difficulty. This in itself is a splendid feature. It is a very salient point.

Here is a combination of testing and selling that both the mechanic and service salesman should be familiar with, mainly because batteries have been the number one service item for 1950 and 1951. Increase your profits on battery servicing and improve the service.



# OIL FILTERS



Sell a Hudson oil Filter cartridge with every Spring reconditioning. Winter driving has left its mark! Dirt, water and sludge have been building up. Ask every service customer, "How's Your Oil Filter?" Check your stock of filters and cartridges and order an additional supply now!

SP-161007	Oil Filter Cartridge	1937-49
SP-302496	Oil Filter Cartridge	1948-52
HA-302494	Oil Filter Kit-6 Cyl.	1949-52
HA-302495	Oil Filter Kit-8 Cyl.	1949-52



### Attention: Service Manager

Display oil cartridges and filters in your service department. Always sell a new cartridge with every change of motor oil.

A HUDSON Approved ACCESSORY