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RMPR 165

Supplementary Service Regulation 49

(2) Automotive Repair Services

Effective June 14, 1945



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RMPR 165
SUPP. SERVICE REG. 49
MAY 15, 1945

(Document No. 44744)

PART 1499—COMMODITIES AND SERVICES
[RMPR 165, Supp. Service Reg. 49]

AUTOMOTIVE REPAIR SERVICES

A statement of the considerations involved in the issuance of this regulation, issued simultaneously herewith, has been filed with the Division of the Federal Register.

§ 1499.682 *Maximum prices for specific automotive repair services.* The provisions of RMPR 165 are modified to the extent set forth below as far as automotive repair services are concerned.

(a) *Charge based on customer's hourly rate.* Your maximum price for each automotive repair service listed in Appendix A of this regulation shall not exceed:

(1) A charge for labor resulting from multiplication of your customer's hourly rate established under RMPR 165 or any applicable supplementary service regulation by the hours or fractions of hours which are specified in Appendix A, plus

(2) A charge for parts and materials not to exceed your maximum prices therefor.

If you have not already established a customer's hourly rate for pricing any service listed in Appendix A, you must establish such a rate under section 5 of RMPR 165.

(b) *Fixed charge.* If, however, your maximum price under RMPR 165 for any service listed in Appendix A, is a "fixed charge," you may not charge more for that service than your fixed charge or the price determined under the preceding paragraph, whichever is lower. A "fixed charge" means a charge which is not computed by means of a customer's hourly rate.

(c) *Lower prices.* Prices lower than those established by this regulation may be charged at any time.

(d) *Overlapping operations; discounts.* The practice of charging not more than once for overlapping operations, which has applied to pricing by use of manuals or labor schedules, also applies to pricing under this regulation. If you perform an operation listed in Appendix A which contains a step included in another operation which you perform, follow this rule, unless otherwise indicated in Appendix A—Use Ap-

pendix A to compute your price for the longer operation; and price under RMPR 165 that part of the shorter operation which has not already been taken into account.

For example—Assume that the longer operation consists of three steps (A, B, and C) and that the shorter operation consists of two steps (B and D). One step (B) is common to both operations. Compute your price for the longer operation (ABC) by using the time set forth in Appendix A. Price under RMPR 165 that part (D) of the shorter operation (BD) which you have not already taken into account. You have already taken into account the step (B) common to both operations in computing your price for the longer operation.

You must maintain your customary allowances, discounts, or other price differentials.

(e) *Sales slips or receipts.* Regardless of any request therefor, you must give to any person purchasing a service listed in Appendix A a sales slip or receipt showing:

(1) Your name and address,

(2) The date,

(3) A brief description of each service supplied,

(4) The number for that service given in Appendix A,

(5) Your customer's hourly rate,

(6) The number of hours charged for (indicating overtime hours if charged for at overtime rates),

(7) The prices charged for parts and materials, and

(8) The total charge.

(f) *Services not listed in Appendix A.* The following rules shall govern services not listed in Appendix A:

(1) *Maximum prices.* Your maximum price for any service not listed in Appendix A shall continue to be your maximum price for that service as established by RMPR 165 or any applicable supplementary service regulation.

(2) *Availability to customers of flat rate manual or labor schedule.* If you use a flat rate manual or labor schedule in pricing any service not listed in Appendix A, you must on request make such manual or schedule available to your customer for his inspection.

(3) *Sales slips or receipts.* If your customer requests a sales slip or receipt for any service not listed in Appendix A, you must give him a sales slip or receipt showing:

(i) Your name and address,

(ii) The date,

(iii) A brief description of each service for which a separate charge is made,

(iv) (a) If customer's hourly rate alone is used in pricing the service, your customer's hourly rate and the number of hours for which a charge is made (indicating overtime hours if charged for at overtime rates).

(b) If flat rate manual or labor schedule is used in pricing the service, the name of the manual or schedule, the number or other identification of the service as it appears in the manual or schedule, your customer's hourly rate, and the number of hours for which a charge is made (indicating overtime hours if charged for at overtime rates).

(c) If fixed charge is used in pricing the service, the fixed charge.

(v) The prices charged for parts and materials,

(vi) Any other charge (and indication of its nature), and

(vii) The total charge.

(g) *Availability of this regulation to customers.* A copy of this regulation shall be kept available at your place of business for inspection by your customers.

This regulation shall become effective June 14, 1945.

Issued this 15th day of May 1945.

CHESTER BOWLES,
Administrator.

APPENDIX A—AUTOMOTIVE REPAIR SERVICES

Important! So that you will properly determine your maximum prices, it is important that you understand the terms defined below. These terms as used in Appendix A shall have the meanings indicated, unless the context clearly otherwise requires. All other terms used in Appendix A shall have their customary trade meanings.

"Automotive repair services" means the repair operations listed in Appendix A when performed on any automobile listed there which is primarily designed for transporting persons, except ambulances and hearses.

"Remove" means to take off or to take out a part or parts.

"Install" means to put back the same part or parts.

"Replace" means to remove a part or parts and to put in or attach a different part or parts.

"Overhaul" means to tear down an assembly, to inspect all its parts, and to rebuild the assembly, replacing parts where necessary.

¹ 9 F.R. 7439, 9107, 9411, 11173, 12040, 12969.

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Nash and Lafayette
Oldsmobile
Packard
Plymouth
Pontiac
Studebaker
Willys

Car make and model

Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Engine	Single carburetor																							
	1936-37	All	5.4	1936	50	6.6	1936-42	All	4.5	1936-37	Six	6.7	1936-37	All	7.5	1936-37	All	6.5	1936-42	All 6-cyl. inder engines.	5.2	1936-38	Six	5.7
	1938-39	All	6.0	1936	60, 70, 75	8.8				1938-39	Six	8.8	1938-39	All	7.8	1938-39	All	6.9	1936-38			1936-38	Eight	6.5
	1940	All	6.5	1936-37	V-12	15.1				1938-39	Six	7.2	1938-39	All	8.0	1938-39	All	8.0	1939			1939	Six (except 42-43)	6.0
	1941-42	40S, 50, 60, 70, 80	6.7	1936-42	V-8, except 1938, 68, 75, 1939, 75, 1940, 75, 65, 75	9.2				1940-42	Eight	9.6	1940-42	All	4.0	1940-42	All	6.0	1936-42	All V-8 engines.	6.0	1936-42	Six	5.7
2. Piston assembly, replace one. No honing or lapping included. Does not include reconditioning cylinder bore.	1936-38	All	4.8	1936	50	2.1	1936-39	All	5.5	1940-42	Six	4.0	1936-38	All	3.5	1936-39	All	3.5	1936-42	All 6-cyl. der engines.	4.9	1936-42	Six	4.0
	1939-40	All	4.4	1936	60	2.5	1940-42	All	5.1	1940-42	Eight	4.3	1937	All	4.7	1940-42	All	4.0	1936-42			1936-42	Eight	4.6
	1941	All	5.0	1936-37	65, 70, 75, 80, 85	2.9							1938-42	All	4.0				1936-42	All 8-cyl. der engines.	6.3			
	1942	All	4.4	1937	50, 60	2.5																		
						2.5																		
3. Piston assembly, replace each additional one when done in connection with Operation No. 2. No honing or lapping included. Does not include reconditioning cylinder bores.	1936-42	All	0.8				1936-42	All	0.7															
4. Pistons (rings, and pistons). Replace all. Does not include reconditioning cylinder bores.																								
5. Piston rings, standard, replace all. Does not include reconditioning cylinder bores.	1936-38	All	8.0	1936	50	5.6	1936-39	All	8.3															
	1939-40	All	7.6	1936-42	V-8	7.2	1940-42	All	7.9															
	1941	All	8.2	1936-37	V-12	9.2																		
	1942	All	7.6	1936-37	V-16	11.1																		
						13.0																		

Car make and model

Car make and model																									
Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane			
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	
6. Piston rings and connecting rod bearings, replace all. Does not include reconditioning cylinder bores.	1936-38	All	4.6							1936	Six	5.5	1936-37	All	6.0	1936-39	All	5.0	1936-42	All 6-cylinder engines.	7.3				
	1939-40	All	4.2							1936-37	C-8, C-11, C-14, C-15	7.9	1938	All	6.2	1938	All	7.8	1938-42	All 60 H. P. engines.	8.3				
										1937	C-9, C-10, C-11, C-17	7.6	1939	All	6.6	1940-42	All	6.6	1939	All V-8 engines.	8.8				
										1938-39	Six	6.7													
7. Connecting rod, replace one. Includes removing and installing or replacing piston pin.	1936-38	All	4.6							1936	Six	2.7	1936	All	2.7	1936-39	All	2.7				1936-42	Six	3.5	
	1939-40	All	4.2							1937	C-8, C-14, C-15, C-16, C-17	3.5	1937	All	3.2	1940-42	All	3.2							
	1941	All	4.8							1938	C-9, C-10, C-11, C-17	3.3	1938	All	2.7										
	1942	All	4.2							1939	Six	2.7	1939	All	3.2										
8. Connecting rod, replace each additional one when done in connection with Operation No. 7.	1936-42	All	0.6							1936	50	0.7	1936-42	All	0.5							1936-42	All	0.5	
										1936-42	V-8	0.6													
										1936-37	V-12 or V-16	0.9													
										1938-40	V-16	0.6													
9. Connecting rods, replace all. Includes removing and installing, or replacing, or replacing, piston pins.	1936-38	All	8.8							1936	50	3.7	1936-39	All	7.5										
	1939-40	All	8.4							1936-42	V-8	5.3	1936-42	All	7.1										
	1941	All	8.0							1936-37	V-8	6.4													
	1942	All	8.4							1936-37	V-16	7.2													
10. Connecting rods, piston rings, and piston pins, replace all. Does not include reconditioning cylinder bores.	1936-38	All	10.4							1936	50	10.4													
	1939-40	All	10.0							1936-42	V-8	10.0													
	1941	All	10.6							1936-37	V-16	10.6													
	1942	All	10.0							1938-40	V-16	9.1													
11. Main bearings, adjust all.	1936-38	All	4.0							1936	50	4.8													
	1939-40	All	3.6							1936-42	V-8	4.1	1936-42	All	1.9										
	1941	All	4.2							1936-37	V-12	6.5													
	1942	All	3.6							1936-37	V-16	7.3													
12. Main bearings, replace all.	1936-38	All	4.0							1936	50	4.8													
	1939-40	All	3.6							1936-42	V-8	4.1	1936-42	All	1.9										
	1941	All	4.2							1936-37	V-12	6.5													
	1942	All	3.6							1936-37	V-16	7.3													
Does not include removing crank shaft.																									

Car make and model

Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Engine																								
	1936-39	All								1936-39	Six	13.0	1936-37	All	13.0	1936-38	All	12.0	1936-42	All 6-cylinder engines	5.8			
	1938	All								1938	Eight	14.5	1938	All	13.7	1939	All	11.4	1938-42	All V-8 engines	6.3			
	1939-41	All								1939	Six	13.5	1939	All	13.3	1940-41	All	12.5	1938-42	All V-8 engines				
14. Connecting rod bearings, replace all.	1940-41	All								1940-41	Six	12.5	1940-41	All	12.5	1942	All	13.1						
	1942	All								1942	Six	13.7	1942	All	10.7									
											Eight	11.1												
												13.1												
Fuel										1936	Six	3.8	1936	All	3.8	1936-38	All	3.8	1936-42	All 6-cylinder engines	3.9			
	1936-37									1936-37	C-8, C-14, C-15	5.5	1937	All	5.0	1939	All	3.2						
	1938-40									1938	C-9, C-10, C-11, C-16, C-17	4.7	1939	All	4.2									
	1941-42									1939	Six	4.2												
15. Fuel pump, replace.	1940-42									1940-42	Six	3.1												
										1940-42	Eight	4.5												
Oiling	1936-37	All								1936	C-7, C-8	1.3	1936	All	1.2	1936-38	All	1.0						
	1938	All								1937	C-9, C-10, C-11, C-15, C-16	1.0	1937	All with first type engine mounting	4.2	1939	All	0.7						
	1939-40	All								1937	C-14, C-15, C-16	4.2		All with second type engine mounting	6.2	1940-42	All	0.9						
	1941	All											1937											
16. Oil pump, and/or oil pump gasket, replace.	1942	All																						
Cooling system	1936-37	All								1936-37	V-12	1.3	1936-37	V-12	2.8									
	1938-40	All								1938-37	V-16	2.6	1938-40	V-16	2.6									
	1941	All								1939	50	1.5	1939	50	1.5									
	1942	All								1940	50, 52	1.5	1940	50, 52	1.5									
17. Water pump, and/or water pump gasket, replace one.																								
17. Water pump, and/or water pump gasket, replace one.	1936-37	All								1936	C-7, C-8	1.8	1936	S-1	1.5	1936-37	All	1.5	1936-42	All 6-cylinder engines	0.6	1936-42	All	0.8
	1938-40	All								1936-37	C-9, C-10, C-11, C-15, C-16, C-17	1.1	1936	S-2	1.1	1938	All	1.0						
	1941	All								1937-39	C-11, C-15, C-16, C-17	1.1	1937-39	All	1.1	1939-40	All	1.3						
	1942	All								1937	C-14	2.0	1940-42	All	1.0	1941-42	All	1.3	1936	All V-8 engines	0.8			
Covers replacing one pump on										1938-39	All	1.1												
										1940	Eight	1.5												
										1941-42	Eight	1.5												
										1941-42	Six	1.0												

Car make and model

Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Cooling system	1936	All	1.9	1936	50	1.6				1936	C-7, C-8	2.8	1936	S-1	2.5	1936-37	All	2.5	1936-42	All 6-cylinder engines	0.9	1936-42	All	1.9
	1937	All	1.3	1936-38	V-8 (except 1936 50)	1.2				1936-37	C-9, C-10, C-11, C-15	2.1	1936	S-2	2.0			2.0						
	1938-40	All	1.6	1939-40	V-8	1.4				1937-39	C-11, C-15	2.1	1936	S-2	2.0			2.5						
	1941	All	1.2	1939-40	V-8	1.4				1937-39	C-11, C-15	2.1	1936	S-2	2.0			2.4						
Ignition and electrical	1936-42	All	0.5	1936-42	V-8	0.8	1936-42	All		1936-39	C-14	3.0	1936-42	All	2.3	1941-42	All	2.3						
	1937	All	1.3	1936-37	V-12	2.8				1938-39	All	2.1	1936	S-1	2.0			2.3						
	1938-40	All	1.6	1936-37	V-16	2.6				1940	All	2.5	1936	S-2	2.0			2.3						
	1938-40	All	1.6	1936-37	V-16	2.6				1941-42	Eight	2.5	1936	S-2	2.0			2.3						
Distributor unit, overhaul. Includes retiming ignition. Also includes breaker points, clean and adjust, or replace. Includes retiming ignition.	1936-42	All	0.5	1936-42	V-8	0.8	1936-42	All		1936-39	All	0.6	1936-42	All	0.6			0.6				1936-38	All	0.6
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			1.3				1939	89 90 98	0.6
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			1.3				1939	92 93 95 97	1.3
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			1.3				1940-42	Six	0.5
Ignition coil, replace one.	1936-42	All	0.3	1936-42	V-8	0.4	1936-42	All		1936-39	All	0.5	1936-42	All	0.5			0.5				1940-42	Eight	1.1
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			1.1				1940-42	Eight	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			1.1				1940-42	Eight	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			1.1				1940-42	Eight	1.1
Condenser, replace one.	1936-42	All	0.3	1936-42	V-8	0.4	1936-42	All		1936-39	All	0.5	1936-42	All	0.5			0.5				1936-39	All	0.5
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			0.5				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
Starting motor, replace.	1936-42	All	0.4	1936-42	V-8	0.5	1936-42	All		1936-39	All	0.5	1936-42	All	0.5			0.4				1936-38	All	0.2
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			0.4				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
Generator, adjust just charging rate.	1936-42	All	0.3	1936-42	V-8	0.4	1936-42	All		1936-39	All	0.5	1936-42	All	0.5			0.4				1936-39	All	0.8
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			0.4				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
Generator, replace.	1936-42	All	0.4	1936-42	V-8	0.5	1936-42	All		1936-39	All	0.5	1936-42	All	0.5			0.4				1936-39	All	0.8
	1937	All	1.3	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-1	2.0			0.4				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.4				1939	92 93 95 97	1.1
Clutch	1936-42	All	0.2	1936-42	All	0.2				1936-42	All	0.5	1936-42	All	0.5			0.5				1936-42	All	0.3
	1937	All	1.3	1936-37	V-8	0.4				1940-42	All	0.7	1936	S-1	2.0			0.5				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
Clutch disc, adjust at pedal.	1936-42	All	0.2	1936-42	All	0.2				1936-42	All	0.5	1936-42	All	0.5			0.5				1936-42	All	0.3
	1937	All	1.3	1936-37	V-8	0.4				1940-42	All	0.7	1936	S-1	2.0			0.5				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
Clutch disc, driven plate, renew facings. Includes removing and installing disc, disc or plate.	1936-42	All	0.2	1936-42	All	0.2				1936-42	All	0.5	1936-42	All	0.5			0.5				1936-42	All	0.3
	1937	All	1.3	1936-37	V-8	0.4				1940-42	All	0.7	1936	S-1	2.0			0.5				1939	89 90 98	0.2
	1938-40	All	1.0	1936-37	V-12 or V-16	1.5				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1
	1938-40	All	1.0	1936-37	V-16	1.0				1940-42	All	0.7	1936	S-2	2.0			0.5				1939	92 93 95 97	1.1

[illegible]

Car make and model

Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Clutch 29. Clutch release, etc.—Con. 30. Clutch overhaul completely. Includes re- moving and in- stalling clutch assembly.	1936-37	All	6.1	1936	50	3.5	1936	Standard	4.2	1936	C-7, C-8	5.0	1936	S-1	4.6	1936-38	All	4.2	1936-38	All without	4.7			
	1938	All (stand- ard trans- mission).	5.5	1936	60	4.8	1936	Master	3.2	1936-38	C-9, C-10	7.0	1936	S-2	6.5	1939	All	3.6						
				1937	70, 75	5.7	1937-39	All conven- tional gear- shift.	3.2		C-11, C-15		1937-39	All with overdrive.	4.6	1940-42	All without fluid drive.	3.8	1936-38	All with Elec- tric Hand.	6.1			
	1938	All (self- shifting transmis- sion).	6.2	1936-37	V-8	4.8					C-14, C-16	4.6	1938	All with overdrive.	5.7				1939	All without	4.5			
				1938-40	V-12 or V-16	5.7					C-18, C-19		1939	All with overdrive.	6.8	1941-42	All with fluid drive.	4.1						
					V-16	5.8	1939-42	All vacuum gearshift.	3.5		C-22, No overdrive.		1940-42	Standard										
	1939	All	6.0								Six with overdrive.	5.7	1940	All with overdrive.	3.6				1939	All with Elec- tric Hand.	5.2			
	1940-42	40, 50	5.1								C-19 with overdrive.	7.8	1941-42	All with fluid drive	4.3				1940	All without	3.9			
											Six with overdrive.	6.8		Eight, no overdrive.	5.3				1940	All with overdrive.	4.4			
											Eight with overdrive.	7.2		Eight with overdrive.	7.2				1941-42	All without	3.7			
										C-25, C-28	3.6		C-25, C-28	3.6				1941-42	All with overdrive.	4.2				
										C-26 with out fluid drive.	4.1		C-26 with out fluid drive.	4.1				1941-42	All with overdrive.	4.5				
										C-25, C-26 with over- drive.	4.3		C-25, C-26 with over- drive.	4.3				1942	All with overdrive.	4.5				
										C-30 with fluid drive and over- drive.	4.3		C-30 with fluid drive and over- drive.	4.3				1942	All with overdrive.	5.0				
										C-28, C-30 with fluid drive and standard transmis- sion.	4.1		C-28, C-30 with fluid drive and standard transmis- sion.	4.1										
										C-28, C-34, C-36, C-37 with fluid drive and vacumatic transmis- sion.	4.7	1941-42	C-28, C-34, C-36, C-37 with fluid drive and vacumatic transmis- sion.	4.7										

Car make and model

Operation	Car make and model											
	Buick			Cadillac and La Salle			Chevrolet			Chrysler		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Transmission	1936-37	All	6.9	1936	50	4.4	1936	All	5.2	1936	C-7, C-8	5.5
	1938	All	6.3	1936	60	4.7	1937-39	All with con-	4.2	1936	C-9, C-10	5.5
	1939	40, 60	5.9	1936	70	8.3	1937-39	All with con-	4.2	1936	C-11, C-12	5.5
	1939	80, 90	6.8	1936	V-12 or V-16	8.3	1937-39	All with con-	4.2	1936	C-13, C-14	5.5
	1940-42	All	6.4	1937	V-8	5.3	1939-42	All with vac-	4.7	1939	C-15, C-16	5.5
31. Transmission, overhaul. Includes removing and installing.	1936-37	All	6.9	1936	50	4.4	1936	All	5.2	1936	C-7, C-8	5.5
	1938	All	6.3	1936	60	4.7	1937-39	All with con-	4.2	1936	C-9, C-10	5.5
	1939	40, 60	5.9	1936	70	8.3	1937-39	All with con-	4.2	1936	C-11, C-12	5.5
	1939	80, 90	6.8	1936	V-12 or V-16	8.3	1937-39	All with con-	4.2	1936	C-13, C-14	5.5
	1940-42	All	6.4	1937	V-8	5.3	1939-42	All with vac-	4.7	1939	C-15, C-16	5.5
32. Universal, front or single, overhaul. Includes removing and installing.	1936-37	All	3.6	1936	50	4.4	1936	All	5.2	1936	C-7, C-8	5.5
	1938	All	3.3	1936	60	4.7	1937-39	All with con-	4.2	1936	C-9, C-10	5.5
	1939	40, 60	3.3	1936	70	8.3	1937-39	All with con-	4.2	1936	C-11, C-12	5.5
	1939	80, 90	3.5	1936	V-12 or V-16	8.3	1937-39	All with con-	4.2	1936	C-13, C-14	5.5
	1940-42	All	3.2	1937	V-8	5.3	1939-42	All with vac-	4.7	1939	C-15, C-16	5.5
33. Universal, rear, overhaul. Includes removing and installing.	1936-37	All	3.6	1936	50	4.4	1936	All	5.2	1936	C-7, C-8	5.5
	1938	All	3.3	1936	60	4.7	1937-39	All with con-	4.2	1936	C-9, C-10	5.5
	1939	40, 60	3.3	1936	70	8.3	1937-39	All with con-	4.2	1936	C-11, C-12	5.5
	1939	80, 90	3.5	1936	V-12 or V-16	8.3	1937-39	All with con-	4.2	1936	C-13, C-14	5.5
	1940-42	All	3.2	1937	V-8	5.3	1939-42	All with vac-	4.7	1939	C-15, C-16	5.5
34. Rear axle assembly, overhaul. Includes removing and installing.	1936-37	All	6.8	1936	50	4.4	1936	All	5.2	1936	C-7, C-8	5.5
	1938	All	7.0	1936	60	4.7	1937-39	All with con-	4.2	1936	C-9, C-10	5.5
	1939	40, 60	6.9	1936	70	8.3	1937-39	All with con-	4.2	1936	C-11, C-12	5.5
	1939	80, 90	6.9	1936	V-12 or V-16	8.3	1937-39	All with con-	4.2	1936	C-13, C-14	5.5
	1940-42	All	6.6	1937	V-8	5.3	1939-42	All with vac-	4.7	1939	C-15, C-16	5.5

Car make and model

Operation	Buick			Cadillac and La Salle			Chevrolet			Chrysler			De Soto			Dodge			Ford and Mercury			Hudson and Terraplane			
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	
<i>Rear axle</i>																									
35. Rear axle shaft, replace one, where not necessary to remove differential assembly. Does not include replacing broken axle shaft where necessary to remove rear axle housing cover and opposite axle shaft.	1936 1938 1937-42	90 All except 90 All	1.1 0.9 0.9	1936-37 1936-42 90 Includes bleeding rear brake lines.	90 All except 1936-37 90	0.9 1.2 0.9	1936-42	All	1.0	1936-42	All	1.3	1936-42	All	1.3	1936-42	All	1.0 1.3	1936-42 1938-42	All except models with full-floating rear axle. 1936-42 All models with full-floating rear axles, if necessary to disassemble.	5.0 5.0	1936-42 All	0.8		
<i>Wheels</i>																									
36. Rear wheel bearing, replace one.	1936 1938 1937-42	90 All except 90 All	0.7 1.1 1.1	1936-42 Includes bleeding one brake.	All	1.0	1936-42	All	1.2	1936-42	All	1.3	1936-42	All	1.3	1936-37 1938-42	All	1.0 1.3	1936-42 1938-42	All Add 0.4 for installing bearing cup or sleeve in rear hub.	0.7 0.7	1936-42 All	0.8		
37. Front wheel bearings, inner and outer, replace one side.	1936-42	All	0.6	1936-37 1936-42 90	90 All except 1936-37 90	1.2 0.9	1936-42	All	0.4																
38. Front wheel bearings, adjust. Includes removing and installing wheels, cleaning and repacking bearings, both sides.	1936-42	All	0.5				1936-42	All	0.5	1936-42	All	0.7	1936-42	All	0.7	1936-37 1938-42	All	0.6 0.7	1936-42	All	0.5	1936-42	All	0.4	
39. Wheels, changing from front to rear, or from front, or from one side to the other. Time shown per wheel.		All models	0.1		All models	0.1		All models	0.1		All models	0.1		All models	0.1		All models	0.1		All models	0.1		All models	0.1	
<i>Front axle and steering</i>																									
40. King pin and/or king pin bushings or bearings, replace all, both sides.	1936-42 Includes adjusting for caster and toe-in.	All	2.1																						
41. Steering knuckles, rebush both sides and replace king pins if necessary.	1936-42 Includes adjusting for caster and toe-in, and replacing thrust bearings if necessary.	All	3.5	1936-42 Includes adjusting for caster, camber and toe-in. 1-Beam suspension Includes adjusting for toe-in.	All SLA susp. (incl. adjuster, camber & toe-in.) 1936-42 All 1938-37 All	4.4 2.5 3.0 2.5				1936-42 Includes adjusting brake anchors and aligning wheels.	All	3.6	1936-42 Includes adjusting brake anchors and aligning wheels.	All	3.6	1936-42 1938-42	All	3.6	1936-42 1938-42	All Includes adjusting brake anchors and aligning wheels.	2.5	1936-42 All			

Car make and model

Operation	Buick		Cadillac and La Salle		Chevrolet		Chrysler		De Soto		Dodge		Ford and Mercury		Hudson and Terraplane	
	Year	Model	Year	Model	Year	Model	Year	Model	Year	Model	Year	Model	Year	Model	Year	Model
Front axle and steering																
	1936-40	80, 90, 40, 50, 60, 70, 1.1	1936-37	50, 60, 1.1	1936-42	All with S.T.A. suspension. All with I-Beam and enclosed knee suspension. 1.2	1936-42	All	1.4	1936-42	All	1.4	1936-42	All	1.6	Tie rods only
42. Steering tie rod assembly, for tie rod ends, replace both sides and align wheels.	1936-41	40, 50, 60, 70, 1.1	1936-37	All except 50, 60, 1.2	1936-42	All	1936-42	All	1.4	1936-42	All	1.4	1936-42	All	1.6	1936-42, All. Includes adjusting for toe-in. Tie rod end assemblies 1936-39, All. 1940-42, All. Includes adjusting for toe-in.
43. Steering drag link ball sockets, replace all.																
44. Steering knuckle assembly, replace one.	1936-42	All			1936-42	All S.T.A. Includes adjusting for caster, camber and toe-in. 1.4	1936-42	All	2.1	1936-42	All	1.9	1936-42	All	1.5	Includes adjusting for toe-in.
Brakes																
	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.
45. Service brakes, minor adjustment only.	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.
46. Service brakes, all four, adjust completely, free and tighten linkage, fill master cylinder, and bleed lines.	1936-42	All			1936-39	All	1936-42	All	2.2	1936-39	All	2.0	1936-42	All	1.2	1936-42, All. Includes filling master cylinder with fluid if necessary.
47. Service brakes, bleed hydraulic system, all four wheels, and add fluid.	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.
48. Service brakes, relime all four and adjust. Includes removing and installing shoes.	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.
49. Brake shoes, replace all four and adjust brakes completely.	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.
50. Brake hydraulic master cylinder, overhaul. Includes removing and installing.	1936-42	All			1936-39	All	1936-42	All	0.5	1936-42	All	0.5	1936-42	All	0.5	1936-42, All. Includes filling master cylinder with fluid if necessary.

Operation	Buick				Cadillac and La Salle				Chevrolet				Chrysler				De Soto				Dodge				Ford and Mercury				Hudson and Terraplane			
	Year	Model	Hours		Year	Model	Hours		Year	Model	Hours		Year	Model	Hours		Year	Model	Hours		Year	Model	Hours		Year	Model	Hours					
<i>Brakes</i>																																
51. Brake pedal, adjust for proper clearance.																																
<i>Springs</i>																																
52. Front spring, replace one.	1936-42	All	Coil spring	0.6	1936-42	All	1.0		1936-42	Coil spring SLA suspension	0.6	1936-37	Leaf type—Right	0.7	1936-42	S-2 right	2.7	1936-38	All	1.5	1936-42	All	0.3		All with hydraulic control.		1936-38	Leaf spring	1.6			
53. Rear spring, replace one.	1936-37	All		1.1	1936	50, 60	1.4		1936-42	All	1.0	1936-40	All	1.5	1936-39	All	1.5	1936-40	All	1.5	1936-42	All	1.2									
	1938-39	All		0.5	1937	50	1.4		1941-42	All	1.2	1940-42	All	1.2	1940-42	All	1.2	1941-42	All	1.2	1941-42	All	1.2									
	1940-41	All		0.7	1936	50, 60	1.6																									
					1937	All except 50	1.6																									
					1938-42	All	1.4																									
54. Rear spring center bolt, replace one.	1936-37	All		0.9	1936-42	All	0.8		1936-42	All	0.9	1936-40	All	1.6	1936-39	All	1.6	1936-40	All	1.6	1936-42	All	1.6									
<i>Major engine operations</i>																																
55. Engine assembly, remove, replace, and tune. Includes removing any parts and accessories, such as fuel pump and fuel equipment, manifold, timing folds, fan, etc., and transferring to a stripped engine assembly.	1941	All	16.5						1936-38	All	8.5	1936-38	Six	12.4	1936-38	All except 1938 with overdrive.	12.4	1936-38	All	11.8	1936-39	Six	10.6									
	1942	All	14.0						1939	All	10.0	1939	Six	16.7	1939	All with overdrive.	13.1	1940-41	All	12.2	1940-41	Six	12.1									
									1940-41	All	10.0	1940-41	Six	15.3	1938	All without overdrive.	12.0	1942	All	16.2	1942	Six without Drive-Master.	9.0									
									1942	All	10.0	1942	Six	15.3	1939	All with overdrive.	12.7				1942	Six with Drive-Master.	9.8									
	</																															

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willys	
	Year	Model	Year	Model	Year	Model	Year	Series	Year	Model	Year	Model	Year	Model	Year	Model
Engine	1936-37	Zephyr	1936-37	10, 40, 40A	1936	Six	1936-37	120C, 1601	1936-37	All	1936	Six	1936-37	Dictator	1936	All
	1938-42	Zephyr	1938-42	20	1937	Eight	1938-39	1701, 1801	1938-39	All	1938	Eight	1938-40	President	1937-42	All
1. Remove carbon, grind and re-face valves, and tune up engine.	1938	K series	1938	10 with vacuum shift	1938	Six	1940-42	1901, 1951	1940-42	All	1940	Six	1938	Stud. Six		
	1938-40		1938-40	10	1938	Six	1941-42	*1901, *1951	1941-42		1941	Six	1939-40	Commander		
	1938-40		1938-40	20	1939	Six	1941-42	*2001	1941-42		1940	Six	1939-40	Champion		
	1938-40		1938-40	40	1940	Six	1941-42	*1901, #1951	1941-42		1940	Six	1941-42	Champion		
	1941-42		1941-42	40	1940	Six	1941-42	*2001	1941-42		1941-42	Six	1941-42	Champion		
	1941		1941	60	1941	Six	1941-42	#1901, 1600	1941-42		1941-42	Six	1941-42	Champion		
	1941		1941	80	1941	Six	1941-42	1700, 1800	1941-42		1941-42	Six	1941-42	Champion		
	1942		1942	80	1942	Six	1941-42	1900, 2000	1941-42		1941-42	Six	1941-42	Champion		
	1942		1942	80	1942	Six	1941-42	*1900	1941-42		1941-42	Six	1941-42	Champion		
							1940	*1800	1940							
							1941-42	*1800, *2000	1941-42							
							1941-42	*1800, #2000	1941-42							
2. Piston assembly, replace one. No honing or lapping. Does not include reconditioning cylinder bore.	1936-42	Zephyr	1936-40	10, 40, 40A	1936	Six	1937-42	120C, 1601	1936-37	All	1936	Six	1936-37	Dictator	1936	All
		All K series	1936-40	20	1937	Eight	1937-42	1701, 1801	1937-42	All	1937	Eight	1937-40	President	1936-42	All
		Includes cleaning oil pan and replacing gaskets	1936-40	80	1937	Six	1937-42	*1901, 1951	1937-42	All	1938	Six	1938	Stud. Six		
			1941-42	40	1938	Six	1941-42	*1901, #1951	1941-42		1940	Six	1939	Six		
			1941-42	60	1938	Six	1941-42	*2001	1941-42		1940	Six	1940	Commander		
			1941-42	80	1939-42	Six	1941-42	*2001	1941-42		1940	Six	1940	Champion		
					1939-42	Six	1941-42	115C, 1600	1941-42		1941-42	Six	1941-42	Champion		
							1937-42	1700, 1800	1937-42		1941-42	Six	1941-42	Champion		
							1941-42	1900, 2000	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	*1900, #2000	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	1803, 1807	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	1903, 2003	1941-42		1941-42	Six	1941-42	Champion		
2. Piston assembly, replace one. No honing or lapping. Does not include reconditioning cylinder bore.	1936-42	Zephyr	1936-40	10, 40, 40A	1936	Six	1937-42	120C, 1601	1936-37	All	1936	Six	1936-37	Dictator	1936	All
		All K series	1936-40	20	1937	Eight	1937-42	1701, 1801	1937-42	All	1937	Eight	1937-40	President	1936-42	All
		Includes cleaning oil pan and replacing gaskets	1936-40	80	1937	Six	1937-42	*1901, 1951	1937-42	All	1938	Six	1938	Stud. Six		
			1941-42	40	1938	Six	1941-42	*1901, #1951	1941-42		1940	Six	1939	Six		
			1941-42	60	1938	Six	1941-42	*2001	1941-42		1940	Six	1940	Commander		
			1941-42	80	1939-42	Six	1941-42	*2001	1941-42		1940	Six	1940	Champion		
					1939-42	Six	1941-42	115C, 1600	1941-42		1941-42	Six	1941-42	Champion		
							1937-42	1700, 1800	1937-42		1941-42	Six	1941-42	Champion		
							1941-42	1900, 2000	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	*1900, #2000	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	1803, 1807	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	1903, 2003	1941-42		1941-42	Six	1941-42	Champion		
							1941-42	2006	1941-42		1941-42	Six	1941-42	Champion		

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willys																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Engine 3. Piston assembly, replace each additional one when done in connection with Operation No. 2. No honing or lapping included. Does not include reconditioning cylinder bores.										1937-42	120C, 1601, 1701, 1801, 1803, 1807, 1901, 1903, 1905, 2001, 2003, 2006, 2008, 115C, 1608, 1700, 1800, 1900, 2000, 2002, 1703	0.5 0.8						1936-42	All	0.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willys	
	Year	Model	Year	Model	Year	Model	Year	Series	Year	Model	Year	Model	Year	Model	Year	Model
8. Connecting rod, replace each additional one when done in connection with Operation No. 7.																
			1936-40 All		0.8	1936-42 All			0.3		1936-39 All		1936-42 All		0.5	
9. Connecting rods, replace all. Includes removing and installing or replacing piston pins.																
			See Operations Nos. 7 and 8		0.6											
10. Connecting rods, piston rings, and piston pins, replace all. Does not include reconditioning cylinder bores.																
11. Main bearings, adjust all.																
12. Main bearings, replace all.																
13. Main bearings, connecting rod bearings, and crankshaft, replace all.																

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willys		
	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
Engine	1936-42	Zephyr	6.4				1936-38	Six	2.5	1937-42	120C, 1601, 1701, 1801, 1901, 1951, 2001	3.2	1935-38	All	3.8	1936-38	Six	3.0						
	All	K series	5.4				1938-42	Eight	2.9				1939-42	All	3.1	1936-39	Eight	3.4						
Fuel							1939-42	Six	3.0				1940-42	28	3.4	1939-42	Six	2.8						
							1941-42	Eight	2.8							1940	29	4.0						
																1941-42	Eight	4.0						
Fuel	1936-42	Zephyr	0.3	1936-42	All	0.7	1936	All	0.8	1937-42	120C, 1601, 1701, 1801, 1901, 1951, 2001, 2003, 2006		1936-37	All	0.6	1936	All	0.4	1936-37	All	0.3	1936-42	All	0.5
							1937	All	1.2				1938	All	1.0	1937-39	All	0.5	1938	Studebaker	0.5			
Oiling							1938	All	1.0				1939	All	0.8	1940	All	0.4	1938-42	Commander	0.5			
							1939-40	Six	1.2				1940-42	All	0.9	1941-42	All	0.4	1938-42	Champion and President	0.4			
Oil pump and/or oil pump gasket, replace.							1941-42	All	0.9	1937-42	115C, 1600, 1700, 1800, 1900, 2000, 1703	0.6												
Cooling system	1936-42	Zephyr	1.4	1936-40	All	0.5	1936	All	0.7	1937-42	115C, 120C, 1600, 1701, 1800, 1901, 1951, 2001	0.8	1936-37	All	1.0	1936-38	All	0.7	1936-37	Dictator	0.6	1936-42	All	1.0
		Covers replacing one pump only.					1937	All	0.9				1938	All	0.7	1939	All	0.9	1936-40	Commander	2.2			
							1938	All	0.7				1940-42	All	0.9	1940	All	1.0	1938-40	Commander	0.7			
							1939	Six	0.6						0.7	Includes resetting ignition timing.		0.8	1939-42	Stud. Six	0.7			
							1940-42	Eight	0.7						0.7			0.8	1939-42	Champion	0.7			
															0.7			0.7	1941-42	Commander	1.4			
							1940-42	All	0.7						0.7			0.8	1941-42	President	2.4			
Water pump, and/or water pump gasket, replace one.	1936-42	Zephyr	1.4	1936-40	All	0.5	1936	All	0.7	1937-42	115C, 120C, 1600, 1701, 1800, 1901, 1951, 2001	0.8	1936-37	All	1.0	1936-42	All	0.7	1936-42	All except President	0.7	1936	All	1.5
							1937	All	0.9				1938	All	1.3			1.3	1936-42	President	1.0	1937-38	All	1.3
							1938	All	0.7				1939	All	1.2			1.2	1936-42	President	1.0	1939-42	All	1.0
							1939	Six	0.6				1940	All	1.1			1.1						
							1940-42	Eight	0.7				1941-42	All	1.1			1.1						

Car make and model																									
Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willys			
	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	
Cooling system 18. Water pump, overhaul. Includes removing and installing.	1936-42 All	Zephyr K series	1.7 3.5	1936-40 1941-42	All All	1.0 1.2	1936 1937 1938-42 1939	All All except 1939 Eight	1.6 1.3 1.1 1.0	1936-42 1939	120C, 115C, 1600, 1601, 1700, 1701, 1800, 1801, 1900, 1901, 1951, 2000, 2001	1.6	1936-42 1939	All	2.5 2.8 2.2 2.4 2.1	1936-37 1938 1939 1940 1941-42	All	1.6 1.1	1936 1937 1938-42 1939-42	Dictator President Stud. Six Commander President Champion	1.8 2.2 1.7 1.7 1.9 1.3	1936 1937 1938-42 1939-42	All	2.3 2.0	
Ignition and electrical 19. Distributor breaker points, clean and adjust, or replace. Includes retiming ignition.				1936-42 All with single ignition. All with twin ignition.	All	0.4 0.7	1936-42 1939		0.5	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1951, 2000, 2001, 2003, 2006, 2008 *With air conditioning.		1936-42	All	0.6	1936-42	1936-42	All	0.5	1936-42 1936-37 1938-42	All except President President President	0.5 1.0 0.9	1936-42 1936-42 1938-42	0.3 Replacing 0.5	
20. Distributor unit, overhaul. Includes removing and installing. Also includes Operation No. 19.	1936-42 All	Zephyr K series	1.0 1.3	1936-42 1936-42	All with single ignition. All with twin ignition.	0.5 1.0	1936-42 1939	All	1.3	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1703, 1800, 1801, 1803, 1807, 1951, 2001, 2003, 2005, 2008, 1900, 1901, 1903, 2000, 1903, 2000	0.7	1936-42	All	1.7	1936-42	1936-42	All	1.3	1936-42		1.5	1936-42	All	1.5

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willys	
	Year	Model	Year	Model	Year	Model	Year	Series	Year	Model	Year	Model	Year	Model	Year	Model
Ignition and electrical 21. Ignition coil, re- place one.	1936-40	All	1936-40	All	1936-42	All	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 1951, 2000, 2001, 2003, 2006, 2008.	1936-42	All	1936-42	All	1936-37 1938-40 1938-40 1938 1939-40 1941-42	3A, 5A, 2C, 3C, 4A, 6A Commander President Studebaker Six Champion All	1936-42	All
	1941 1941 1942	40 60, 80 All	1936-40 1941 1942	All 40 All	1936-42	All	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 1951, 2000, 2001, 2003, 2004, 2006, 2008.	1936-42	All	1936-42	All	1936-37 1938-40 1938-40 1938 1939-40 1941-42	3A, 5A, 2C, 3C, 4A, 6A Commander President Studebaker Six Champion All	1936-42	All
22. Condenser, re- place one.	1936-42	All	1936-42	All	1936-42	All	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 1951, 2000, 2001, 2003, 2004, 2006, 2008.	1936-42	All	1936-42	All	1936-37 1938-40 1938-40 1938 1939-40 1941-42	3A, 5A, 2C, 3C, 4A, 6A Commander President Studebaker Six Champion All	1936-42	All
	1936-42	All	1936-42	All	1936-42	All	1937-42	115C, 120C, 1600, 1601, 1700, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 1951, 2000, 2001, 2003, 2004, 2006, 2008.	1936-42	All	1936-42	All	1936-37 1938-40 1938-40 1938 1939-40 1941-42	3A, 5A, 2C, 3C, 4A, 6A Commander President Studebaker Six Champion All	1936-42	All
23. Starting motor, replace.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.	1938	80 with vac- uum shift.
	1938-42	All others...	1938-42	All others...	1938-42	All others...	1938-42	All others...	1938-42	All others...	1938-42	All others...	1938-42	All others...	1938-42	All others...
24. Generator, ad- just. charging rate.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.
	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.	1936-42	All models with third- type generator.
25. Generator, re- place.	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...
	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...
26. Clutch, adjust at pedal.	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...	1936-42	Zephyr...
	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...	1936-42	All... K series...

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willlys		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
27. Clutch disc, discs, or clutch driven plate, renew facings. Includes re-moving and installing disc, discs or plate.																								
28. Clutch disc, discs, or clutch driven plate, replace all.																								
29. Clutch release bearing, replace.																								

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willys	
	Year	Model	Year	Model	Year	Model	Year	Series	Year	Model	Year	Model	Year	Model	Year	Model
Clutch																
	1936-42	All except 1938 with vacuum shift.	1936-42	All except 1938 with vacuum shift.	1936-38	All with Synchro-Mesh transmission.	1937-42	115C, 120C, 1600, 1701, 1800, 1901, 2000, 2001, 2003, 2006, 2008.	1936-38	All	1936-38	All with conventional gear shift.	1936-42	All	1936-42	All
Transmission																
	1936-42	All except 1938 with vacuum shift.	1936-42	All except 1938 with vacuum shift.	1936-38	All with Synchro-Mesh transmission.	1937-42	115C, 120C, 1600, 1701, 1800, 1901, 2000, 2001, 2003, 2006, 2008.	1936-38	All	1936-38	All with conventional gear shift.	1936-42	All	1936-42	All
Universal																
	1936-42	All	1936-42	All	1936-38	All with Synchro-Mesh transmission.	1937-42	115C, 120C, 1600, 1701, 1800, 1901, 2000, 2001, 2003, 2006, 2008.	1936-38	All	1936-38	All with conventional gear shift.	1936-42	All	1936-42	All

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willlys	
	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Model
Universals																
	33.	Universal, rear, overhaul. Includes removing and installing.		On cars with spline at front end of propeller shaft. 1936-40 All. 1.1 On cars without spline at front end of propeller shaft. 1941-42 60,80. 1.2 1936-40 All. 1.4	1936 All. 0.7 1937-38 All. 0.9 1939 All with Automatic transmission. 0.9 1939-42 All except 1939 with Automatic transmission. 0.7		Same as Operation 32.		1.2	1936-42 All.	1936-42 All.	0.9	1936 All. 0.7 1937 President. 0.7 1938-40 All. 0.7 1941-42 All. 0.6			
Rear axle																
	34.	Rear axle assembly, overhaul. Includes removing and installing.														
		1936-37 Zephyr without overdrive. 7.0 1936-37 Zephyr with overdrive. 9.0 1938-42 Zephyr without overdrive. 4.5 1938-42 Zephyr with overdrive. 6.5 All K series. 7.6														
35. Rear axle shaft, replace one, where not necessary to remove differential assembly. Does not include replacing broken axle housing where necessary to remove rear axle housing cover and opposite axle shaft.																
		Models without full-floating rear axles. 1936-42 Zephyr. 5.0 All K series. 0.8 Models with full-floating rear axles. 1936-42 Zephyr. 5.6 All K series. 5.6														
Wheels																
	36.	Rear wheel bearing, replace one.														
		1936-42 All. 0.7 Add 0.4 for installing bearing cup or sleeve in rear hub.														
37. Front wheel bearings, inner and outer, replace one side.																
38. Front wheel bearings, adjust, removing and installing wheels, cleaning and repacking bearings, both sides.																
		1936-42 Zephyr. 0.5 All K series. 0.7														

Car make and model

Car make and model																								
Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willys		
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours
<i>Wheels</i>																								
39. Wheels, changing from front to rear, rear to front, or from one side to the other. Time shown per wheel.	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1	1936-42	All models.	0.1
<i>Front axle and steering</i>																								
40. King pin and/or king pin bushings or bearings, replace all, both sides.	1936-42	Zephyr.	2.5	1941-42	60, 80	2.0	1936-42	All.	2.1	1936-42	115C, 120C, 1600, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 1951, 2000, 2001, 2003, 2004, 2006, 2008.	2.1	1936-42	All.	2.2	1936-42	All.	2.2	1936-42	All.	2.2	1936-42	All.	3.0
	All	K series.	3.0	Includes adjusting for toe-in	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	
41. Steering knuckles, re-bush both sides, and replace king pins if necessary.	1936-39	All	1.0	1940-42	All except 40.	2.8	1936-42	All.	3.5	1936-42	All.	3.5	1936-42	All.	3.6	1937-39	All.	3.4	1936-38	All.	2.7	1936	All.	4.0
	1940-42		2.0			3.4												2.6	1939-40	Commander and President.	2.7	1937-42	All.	3.0
42. Steering tie rod ends, replace both sides and align wheels.	1936-42	Zephyr.	1.0																					
	All	K series.	2.0																					
43. Steering drag link ball socket, etc., replace all.	1936-42	Zephyr.	0.6																					
	All	K series.	1.3																					
44. Steering knuckle assembly, replace one.	1936-42	Zephyr.	1.5	1936-39	All except 40.	1.1	1936-42	All.	1.4	1936-42	115C, 120C, 1600, 1701, 1703, 1800, 1801, 1803, 1807, 1900, 1901, 1903, 1907, 2004, 2008.	1.4	1936-42	All.	1.9	1937-42	All.	1.3	1936-37	3A, 5A, 4-5C, 2C, 1938 Studebaker Six, 1938-40 Commander & President, 1939-40 Champion, 1941-42 Commandant.	1.2	1936-42	All.	1.0
	All	K series.	2.0	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	Includes adjusting for toe-in.	

Car make and model

Operation	Lincoln K Series and Lincoln Zephyr		Nash and Lafayette		Oldsmobile		Packard		Plymouth		Pontiac		Studebaker		Willys	
	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Model
Brakes	1936-42	Zephyr	0.5	1936-42	All	0.5	1937-42	All but V-12 and 1500 series	0.6	1936-42	All	0.5	1936-42	All	0.6	1936-38 All
	1936-42	K series	0.8	Includes adjusting pedal and checking fluid level.	1936-42	Includes filling hydraulic master cylinder.	1937-42	1500 series	0.6	Adjusting brake shoes and cams only.	Includes filling master cylinder.	1936-38	1939-42	All	1.0	1939-42 All
	1936-42	Zephyr with rod or cable control.	1.2	Includes adjusting and repacking front wheel bearings. Does not include bleeding lines.	1936-42	All	1937-42	All but V-12 and 1500 series	1.7	1936-42	All	1.6	1936-42	All	2.3	1936-38 All
	1936-42	K series	2.7									1.5	1936-42	All	1.0	1936-42 All
46. Service brakes, all four, adjust completely, free and tight, in linkage, fill master cylinder, and bleed lines.	1936-42	All	0.8	1936-42	All	0.9	1936-42	All but V-12 and 1500 series	0.7	1936-42	All	0.7	1936-42	All	1.5	1936-42 All
47. Service brakes, bleed hydraulic system, all four wheels, and add fluid.	1936-42	All	0.8	1936-42	All	0.9	1936-42	All but V-12 and 1500 series	0.7	1936-42	All	0.7	1936-42	All	1.5	1936-42 All
48. Service brakes, reline all four and adjust. Includes removing and installing shoes.	1936-42	All	0.8	1936-42	All	0.9	1936-42	All but V-12 and 1500 series	0.7	1936-42	All	0.7	1936-42	All	1.5	1936-42 All
49. Brake shoes, replace all four, and adjust brakes completely.	1936-38	Zephyr with rod or cable control.	2.0	1936-40 All	1936-42 All	4.1	1936-42 All	1500 series	2.9	1936-42 All	All	3.1	1936-38 Commander and President	1939-40 Commander and President	4.3	1936-42 All
50. Brake hydraulic master cylinder, overhaul. Includes removing and installing.	1936-42	Zephyr with hydraulic control.	1.8	Includes bleeding lines and adding fluid.	1936-42	Includes lubricating parking brake cables.	1937-42	Includes repacking front wheel bearings	3.8	1936-42 All	Includes bleeding lines and adding fluid.	2.2	1936-38 Commander and President	1939-40 Commander and President	4.3	1936-42 All
51. Brake pedal, adjust for proper clearance.	1936-42	All with hydraulic control.	0.9	1936-42	All	1936-42	1936-42	1500 series	0.2	1936-42 All	1936-42 All	0.2	1936-38 Commander and President	1939-40 Commander and President	3.5	1936-42 All
52. Front spring, replace one.	1936-42	Zephyr	1.5	1936-39 10, 20, 40, 40A	1936-42 All	1.1	1936-42	1500 series	0.2	1936-42 All	Leaf spring	0.9	1936-37 3A, 5A, 2C, 4A, 3C.	1939-40 Commander and President	1.0	1936-42 All
	1936-42	K series	2.0	1936-39 80	1936-42 All	1.2	1936-42	1500 series	0.2	1936-42 All	Coil spring	0.5	1936-37 3A, 5A, 2C, 4A, 3C.	1939-40 Commander and President	1.0	1936-42 All
	1936-42	All	0.6	1940 All	1940 All	0.6	1940 All	1500 series	0.2	1936-42 All	Coil spring	0.5	1936-37 3A, 5A, 2C, 4A, 3C.	1939-40 Commander and President	1.0	1936-42 All
	1936-42	All	1.0	1941-42 60, 80	1941-42 All	1.0	1941-42	1500 series	0.2	1936-42 All	Coil spring	0.5	1936-37 3A, 5A, 2C, 4A, 3C.	1939-40 Commander and President	1.0	1936-42 All

[illegible]

Operation	Lincoln K Series and Lincoln Zephyr			Nash and Lafayette			Oldsmobile			Packard			Plymouth			Pontiac			Studebaker			Willys											
	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Series	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours	Year	Model	Hours									
Major engine operations	New cylinder assembly																																
	1936-42 Zephyr.....			10.0																													
	Reconditioned cylinder assembly																																
	1936-42 All.....			10.0																													
	Cylinder block (reground) with pistons (on exchange)																																
	1936-39 Six.....			23.0			1939 1703.....			22.0			1936-38 All.....			23.0			1936 Six.....			14.8			1936-37 Dictator.....			18.9					
	1936-39 Eight.....			24.5															1936 Eight.....			15.2			1936-37 President... 23.5								
	1940-41 Six with Synco-Mesh transmission.....			24.5															1937-38 Six.....			14.7			1938 Studebaker Six.....			15.0					
	1940-41 Six with Hydromatic transmission.....			25.5																													
	1940-41 Eight with Synco-Mesh transmission.....			27.0																													
1940-41 Eight with Hydromatic transmission.....			28.0																														
1942 Six with Synco-Mesh transmission.....			21.2																														
1942 Six with Hydra-Matic transmission.....			22.2																														
1942 Eight with Synco-Mesh transmission.....			23.5																														
1942 Eight with Hydromatic transmission.....			24.5																														
Includes grinding valves.																																	

STATEMENT OF THE CONSIDERATIONS INVOLVED IN THE ISSUANCE OF SUPPLEMENTARY SERVICE REGULATION 49 TO RMPR 165

Automotive repair service labor charges are characteristically priced upon the basis of the time required for performance of a given operation. Repair shops usually price either upon the basis of time used on individual jobs or upon the basis of time-studies for given operations as listed in flat rate manuals or labor schedules. Such shops (with minor exceptions) bill their customers for labor by multiplying their customer's hourly rate by the actual hours of time or by the hours of time set forth in the manual or schedule.

To the extent that "actual" time (as distinguished from time specified in a flat rate manual or labor schedule) has been used as the basis for pricing automotive repair services, adequate compliance with the services regulation has not been secured. In many such cases, consumers have been charged for more time than was used. The accompanying regulation is calculated to check this practice insofar as many standard operations are concerned, while at the same time recognizing a pricing method long familiar to the automotive repair trade as reflected in the use of flat rate manuals or labor schedules for standard operations.

The regulation limits the time for which a customer may be charged for certain common automotive repair services for specified makes of automobiles. The listed operations correspond to those customarily used in the trade, except for such minor changes as are required for uniformity. The time allowances follow as closely as possible those determined in the base period by the automobile manufacturers to be generally adequate for the performance of the operations. These allowances, in the Administrator's opinion, are representative of the times customarily required to complete the operations specified, and when ap-

plied to customer's hourly rates established for individual repair shops under the services regulation, will result in prices which are generally fair and equitable.

In any case where a person has a fixed (dollars-and-cents) charge for an operation listed in the regulation, he must compare that charge with the one resulting from multiplication of his customer's hourly rate by the time specified in the regulation. He must then charge no more than the lower of the two figures for that operation. If any person supplying a service listed in the regulation has not established a customer's hourly rate, he must apply to OPA under Section 5 of RMPR 165 for the establishment of such a rate, to be used in determining a price for that service.

The regulation also requires persons supplying any of the specific services listed therein to give their customers informative invoices. A salient feature of this provision, and of the regulation generally, is that a practicable means will for the first time be afforded the customer to ascertain the correctness of charges for automotive repair work. The average customer is unfamiliar with the technicalities of automotive repair work and has little knowledge of the manner in which it is priced. The regulation will help to remedy a condition which has hitherto constituted a marked impediment to price control.

It is contemplated that other standard operations will be added to the list which appears in the regulation in order to make it an ever more effective instrument of price control.

The regulation requires continuance of a seller's previous pricing practices as authorized by RMPR 165. For example, he must adhere to his base period pricing policy, if he had one, of giving discounts or price differentials; he must re-

tain his pricing policy as far as multiple operations are concerned; etc.

Automotive repair services not listed in the regulation continue to be priced under RMPR 165. With respect to such services the regulation specifies the information to appear on the sales slip or receipt if a customer requests one; and it also provides that if a flat rate manual or labor schedule is used to price the service, the manual or schedule must on request be made available for the customer's inspection.

All provisions of the regulation and their effect upon business practices, cost practices or means or aids to distribution in the industry affected have been carefully considered. No provisions which might have the effect of requiring a change in such practices, means, aids or methods established in the automotive repair trade are included in the regulation unless such provisions have been found necessary to achieve effective price control. To the extent that the provisions of this regulation compel or may operate to compel changes in business practices, cost practices or methods, or means or aids to distribution established in the industry such provisions are necessary to prevent circumvention or evasion of RMPR 165 or the Emergency Price Control Act of 1942, as amended.

Insofar as the provisions of this regulation use specifications and standards which were not, prior to such use, in general use in the trade or industry affected, or insofar as their use was not lawfully required by another Government agency, it is determined, with respect to such standardization, that no practicable alternative exists for securing effective price control with respect to the services subject to this regulation.

Issued this 15th day of May 1945.

CHESTER BOWLES,
Administrator.

