

**1952
SUPPLEMENT TO

HUDSON
480-490-500 and
"A" SERIES**

**FLAT RATE
MANUAL**

HUDSON MOTOR CAR COMPANY
Detroit 14, Michigan

INTRODUCTION

The 1952 Flat Rate Manual Supplement is intended for use with the 480-490-500 and "A" Series Flat Rate Manual in establishing labor charges covering service operations applicable to the 1952 "B" series cars.

This supplement lists only those operations necessary in servicing the 1952 Hudson cars which are either new, or due to design changes or other reasons, require procedures and times differing from the ones shown in the "A" series manual. For all other operations, use the time schedules listed in the "A" series book.

In accordance with established practice, the flat rate time is based on the performance of the operation following the Factory recommended procedure, using the special service tools and equipment developed for the work and by mechanics of average ability.

REAR AXLE

The rear axle operations and times listed below apply to the second series 1952 cars using the removable cover type rear axle. For cars with welded cover type rear axles, refer to the " A " series Flat Rate Manual.

OPERATION	DESCRIPTION	TIME	PRICE
2-20	AXLE ASSEMBLY (COMPLETE) - - Remove and Install. Includes Bleeding Brakes - - All Models	3.9	_____
2-21	AXLE ASSEMBLY HOUSING - - Remove and Install. Includes Disassembly, Inspection, Reassembly and Bleeding Brakes - - All Models	7.2	_____
2-22	AXLE ASSEMBLY - - Overhaul - - Includes Remove and Install and Complete Disassembly and Reassembly of Rear Axle and Bleeding Brakes. - - All Models	8.0	_____
2-23	DIFFERENTIAL ASSEMBLY - - Overhaul when removed from Axle. Includes Removing and Installing Drive Gear and Replacing Case, Gears, Pinions, Shaft, Thrust Washers or Spacer Block - - All Models	.8	_____
2-24	DIFFERENTIAL SIDE BEARINGS - - Remove and Install. Axle Housing in Car - - Includes Bleeding Brakes. All Models	2.8	_____
2-25	DRIVE GEAR AND PINION - - Remove and Install. Includes Replacing with Matched Set of Drive Gear and Pinion and Checking Pinion Depth. All Models	6.5	_____
2-26	DRIVE GEAR AND PINION - - Adjust - - Includes Remove and Install Axle Assembly - - All Models	6.5	_____
2-27	DRIVE PINION OIL SEAL - - Remove and Install. All Models	1.1	_____
2-28	AXLE HOUSING COVER AND/OR GASKET - - Remove and Install. All models	.4	_____
2-29	REAR AXLE COMPANION FLANGE - - Remove and Install. All Models	.6	_____
2-30	DIFFERENTIAL ASSEMBLY - - Remove and Install. Axle Housing in Car - - Includes Bleeding Brakes. All Models	2.3	_____
2-31	DRIVE PINION BEARING CUP AND CONE FRONT OR REAR - - Remove and Install - - Includes Checking Pinion Depth. All Models	6.5	_____

REAR AXLE - CONTINUED

OPERATION	DESCRIPTION	TIME	PRICE
2-32	AXLE SHAFT - - Remove and Install. Includes Bleeding Brakes - - All Models - One Two To Adjust End Play Add	1.8 2.5 .6	_____ _____ _____
2-33	AXLE SHAFT OIL SEAL (ONE OUTER) - - Remove and Install. All Models	.7	_____
2-34	AXLE SHAFT WHEEL BEARING - - Remove and Install. Includes Bleeding Brakes - - All Models - One Two	1.8 2.5	_____ _____
2-35	AXLE SHAFT OIL SEAL (INNER) - - Remove and Install. Includes Bleeding Brakes - - All Models - One Two	1.9 2.6	_____ _____

CLUTCH

The clutch operations and times listed below apply to the second series 1952 cars using the double shift rod type manual control transmission. For cars with single shift rod type transmissions, refer to the "A " series Flat Rate Manual.

OPERATION	DESCRIPTION	TIME	PRICE
5-15	DRAIN, FLUSH AND REFILL All Models	.5	_____
5-16	CLUTCH HOUSING - - Remove and Install. Includes Remove and Install Transmission. Commodore Six and Eight and Hornet Models Wasp and Pacemaker Models	1.7 2.8	_____ _____
5-17	CLUTCH ASSEMBLY - OVERHAUL Includes Remove and Install Transmission, Clutch Housing, Clutch Overhaul and Necessary Adjustments. Commodore Six and Eight and Hornet Models Wasp and Pacemaker Models	2.4 3.5	_____ _____
5-18	CLUTCH THROWOUT BEARING - - Remove and Install. Includes Removing Transmission Assembly. All Models	1.6	_____
5-19	CLUTCH OVERHAUL - - Add to Operation #2 All Models	.7	_____
5-20	CLUTCH PILOT BEARING - - Remove and Install. Add to Operation #2 - - All Models	.4	_____
5-21	CLUTCH ASSEMBLY - - Remove and Install - - Includes Replacing Cover Gasket and/or Driving Plate. Commodore Six and Eight and Hornet Models Wasp and Pacemaker Models	1.9 3.0	_____ _____
5-22	CLUTCH PEDAL - - ADJUST All Models	.3	_____
5-23	CLUTCH CROSS SHAFT, COUPLING LEVER, FELT SEAL, RETAINER OR RUBBER BUSHING - - Remove and Install. Housing Removed - - All Models	.5	_____
5-24	CLUTCH PEDAL LEVER SHAFT HOUSING - - Rebush - Includes Remove and Install - - All Models	1.3	_____

CLUTCH - CONTINUED

OPERATION	DESCRIPTION	TIME	PRICE
5-25	CLUTCH PEDAL LEVER SHAFT - - Remove and Install. All Models	1.0	_____
5-26	CLUTCH HOUSING - Rebush - - Housing Removed - - If Necessary - - Add to Operation #2 - - All Models	.5	_____

TRANSMISSION

The Transmission operations and times listed below apply to the second series 1952 cars using the double shift rod type manual control transmission. For cars with single shift rod type transmission, refer to the "A" series Flat Rate Manual.

OPERATION	DESCRIPTION	TIME	PRICE
6-32	TRANSMISSION COMPANION FLANGE -- Remove and Install. All Models	.6	_____
6-33	TRANSMISSION MAINSHAFT REAR OIL SEAL -- Remove and Install -- Transmission in Car -- All Models	.7	_____
6-34	TRANSMISSION SPEEDOMETER GEAR HOUSING -- Remove and Install -- Transmission in Car -- All Models	.9	_____
6-35	TRANSMISSION SPEEDOMETER CABLE -- Remove and Install. All Models	.3	_____
6-36	TRANSMISSION SPEEDOMETER CABLE AND HOUSING OR SPEEDOMETER PINION -- Remove and Install. All Models	.5	_____
6-37	TRANSMISSION OPENING FLOOR COVER -- Remove and Install -- All Models	1.1	_____
6-38	TRANSMISSION CASE COVER AND/OR GASKET -- Remove and Install -- All Models	1.3	_____
6-39	TRANSMISSION ASSEMBLY -- Remove and Install -- From Underneath Car - Standard Type Overdrive Type.	1.4 3.0	_____ _____
6-40	TRANSMISSION ASSEMBLY -- OVERHAUL Includes Remove and Install From Underneath Car -- All Models	3.9	_____
6-41	TRANSMISSION MAINSHAFT REAR BEARING -- Remove and Install -- Transmission in Car Standard Transmission Overdrive Transmission	1.3 1.7	_____ _____
6-42	TRANSMISSION MAIN DRIVE GEAR BEARING RETAINER AND OIL SEAL -- Remove and Install -- Includes Remove and Install Transmission -- All Models	1.7	_____

TRANSMISSION - CONTINUED

OPERATION	DESCRIPTION	TIME	PRICE
6-43	TRANSMISSION MAIN DRIVE GEAR - - Remove and Install. Includes Remove and Install Transmission - All Models	1.8	_____
6-44	TRANSMISSION MAINSHAFT - - Remove and Install - - Includes Mainshaft Gears, Synchronizer Assembly or Mainshaft Rear Bearing - - All Models	3.0	_____
6-45	COUNTERSHAFT GEAR CLUSTER AND/OR COUNTER-SHAFT, ROLLER BEARINGS, ROLLER BEARING SPACER, THRUST WASHERS OR BEARING WASHERS. Remove and Install - - Includes Remove and Install Transmission From Underneath Car - - All Models	3.9	_____
6-46	REVERSE IDLER GEAR AND BUSHING OR IDLER GEAR SHAFT. Remove and Install - - Includes Remove and Install Transmission - - All Models	3.9	_____
6-47	TRANSMISSION SHIFT SHAFT - LOW AND REVERSE OR SECOND AND HIGH, ALSO INTERLOCK SLEEVE, PIN, SPRING OR BALLS. Remove and Install One or All. All Models	4.1	_____
6-48	TRANSMISSION CASE - - Remove and Install. Includes Remove and Install Transmission - - All Models	3.5	_____
6-49	REMOTE CONTROL HAND SHIFT LEVER AND CONTROL TUBE - - Remove and Install - - All Models	1.0	_____
6-50	STEERING JACKET TUBE, INCLUDES REMOTE CONTROL TUBE AND SHIFT LEVER - - Remove and Install - - All Models	2.0	_____
6-51	REMOTE CONTROL HAND SHIFT LEVER - - Remove and Install. All Models	.3	_____
6-52	REMOTE CONTROL TUBE BRACKET (UPPER) - - Remove and Install - - All Models - - With Direction Indicator Without Direction Indicator	.7 .4	_____ _____
6-53	REMOTE CONTROL TUBE BRACKET (LOWER) - - Remove and Install - - All Models	1.9	_____

TRANSMISSION - CONTINUED

OPERATION	DESCRIPTION	TIME	PRICE
6-54	REMOTE CONTROL ADJUSTMENT - - All Models	.6	_____
6-55	REMOTE CONTROL TUBE PUSH ROD OR PUSH ROD ENDS - - Remove and Install - - All Models	1.4	_____

