## REPAIRS OF RAILWAY CAR EQUIPMENT: WITH PRICES OF LABOR AND MATERIAL

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Repairs of Railway Car Equipment: With Prices of Labor and Material by H. M. Perry

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H. M. PERRY

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RAILWAY	CAR	EQUIP	MENT
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		N AND OTHER MA	ATERIAL;
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E	L M. PERRY,	м. с. в	Otoma e
	CHICAGO: THE RAILWAY		

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## PREFACE.

After an experience of over thirty years in railway car work, and recognizing the growing necessity of a book devoted entirely to the subject of car repairs, it is the purpose of the author, in offering this work to the railway fraternity, to furnish a ready means of reference on this subject; especially for estimating the cost of repairs, making out damaged car reports, checking up bills, comparing the different methods of doing work, making out bills of material, etc.

The prices for both labor and material are based, as far as possible, on the Master Car Builders' Code of Rules governing repairs to cars, thus making them applicable to any section of the country, and damaged car reports based on these prices would not only be correct, but when made out by different employes would be approximately allke.

The useful information, such as tables, and weights of all classes of material, has been carefully compiled, and is intended to cover all the information required to answer the various problems arising in car-shop work.

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REPAIRS OF RAILWAY CA	R EQUIP.	MENT.	(	1
AVERAGE COBT OF R TO STANDARD PASSENGER J These prices include the labor of removin	EQUIPM			
naterial for replacing new, unless otherwise spe	•	·	Cost of Labor.	
Removing old siding, filling between studs, renewing siding and mouldings, burning off letter board and posts and finishing ready to paint, 340 hours	1462 feet. 300 ···	\$38 00 9 00	\$85 00	\$132 00
Removing and replacing siding but not filling in frame, burning off old paint and finishing car ready for paint, 100 hours	750 " 300 "	19 50 9 00	25 00	53 50

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## REPAIRS OF RAILWAY CAR EQUIPMENT.

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17 - Version of the Marcola - Conference	Amount of Material.	Cost of Mate'l.	Cost of Labor.	Total Cost.
Burning off old paint and finishing outside of car ready for paint, 100 hours				<b>\$21 7</b> 5
Removing and replacing belt rail	160 feet.	\$ 5 00	\$ 8 00	13 00
Length of car costs about 12}c per foot.		+1	212030417	
Shorter lengths " " 25c "				
Removing and replacing letter board, crown moulding and fascia	200 "	6 00	12 50	18 50
For painting, estimate 25c per foot, " lettering, " 15c per letter, gold.				
Repairing short lengths — for woodwork painted and varnished, estimate 60c per foot, with 15c per letter extra for gold letters.				
Baggage and mail cars cost about the same as coaches for the same class of work,				
Tinning roof, complete, copper flashing	652 "	41 24	22 76	64 00
" " lower deck, " "	367 "	28 02	12 48	40 50
" " upper deck	285 "	. 13 22	9 28	23 50
Canvas roof, complete, copper flashing	73 sq. yd.			48 00
Copper flashing	60 lbs.	11 50		3
	00100			
Tin roof, complete, copper flashing, per sq. ft.				10
Canvas roof, " " per sq. yard.				50
		1		

REPAIRS TO PASSENGER EQUIP	MEN	T-Co	NTING	ED	<b>b</b>			
	Amo Mat	ant of erial.	Cost Mat	of e'l,	Cost	of	Tot	al st.
Removing "Miller" platform timbers and re- placing new, using old castings and forg-								
ings, one end of car	340	feet.	\$18	00	\$12	00	\$30	O
Removing and replacing same platform	48	005058	1000	20	0,040	~~	10	785
	40		1	20			10	U
End sill, including removing and replacing platform, and siding ready for paint	68	a		00	15	~	10	-04
			85		걸었		12	
Siding and moulding one end of car, complete Painting and varnishing """"	68	£1	2	00	3	00	5 22	
		11235			- 10		1.1	-
1 door post, removed and replaced new	20	**		60	- 67	40	- m	00
1 corner post, """""" 1 end carline, """""""	20	61 67		60 75	1.32	40 50	1.1	50 25
1 " corner, " " " "	6	*1	1	18	[ · · ~	50		63
2 16 11 11 11 11 12	12	4		36	_	00	1.5	36
1 "arm, " " " "	16	¢1		50	2	50	3	00
2 н п с н н н	32	61	1	00	5	00	6	00
1 end carline and 2 corners removed and								
replaced new	37	**	1	10	5	00	6	1(
1 end carline and 2 corners, and 2 arms re-		-			10	-		33
moved and replaced new.	69	F1			10			
Removing and renewing hood, complete			10		20		1.723	- 33
Splicing roofing at end plate, lower deck	- 신영광	4 11		50	- 82.	00 50	8.3	50
	40			00	- 27	1517		50
Lining underside of hood	33	14	1	00	2	00	3	00
Tinning hood, complete							1.3	00
" " lower deck							1.157	00
upper							3	00
Canvas on hood, complete							2	50

REPAIRS	OF	RAILWAY	CAR	EQUIPMENT.		
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	Cost of Material.	Cost of Labor.	Tota Cost
Applying "Pullman" vestibule, including remod- eling hood and platform, 1 end of car	\$485 00	\$190 00	\$675
	\$109 UU	\$150 W	4010
Applying vestibule after the platform and hood have been remodeled, 1 end	290 00	110 00	400
Removing old platform and applying new Janney-	200 00	110 00	400
Miller platform to receive vestibule and credit-			æ
ing old material, 1 end	160 00	40 00	200
Removing old hood and applying a new one to			
receive vestibule, 1 end	35 00	40 00	75
1 end door, complete, mahogany, trimmed			24
1 set of glass and trimmings for 1 door			8
4 vestibule doors, complete, mahogany, 1 end			48
1 set of glass and trimmings for 4 doors			27
1 " " " beveled for 4 doors			10
1 vestibule door, mahogany, not trimmed			5
2 vestibule posts			6
1 " dome		ł	9
1 " lamp			18
2 " steps, curved risers, not trimmed			8
2 sets bronze ornaments for step risers		í	6
Gear brake attachment, one end of car			25
Body hand rails, bronze, 1 end of car			7
Platform " " 1 " "			5