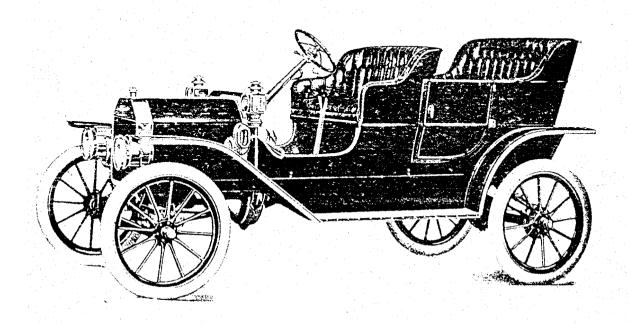
Ford Price List of Parts and Instruction Book of Model T

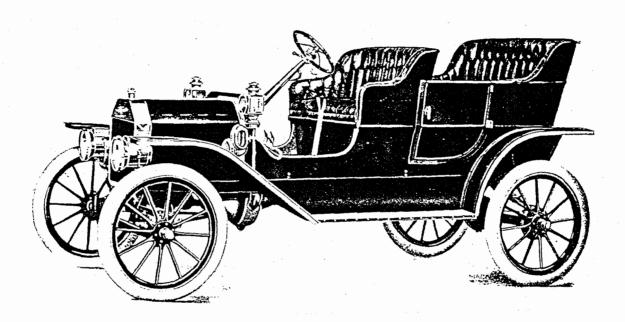
Ford Notor Company, Detroit, U. S. A.



Ford Price List of Parts and Instruction Book of Model T

Ford Motor Company.

Detroit, U.S.A.



IN EFFECT JUNE 1,1909

NOTE: PAGE 4 IS START OF

PARTS. FORD COUNTED

COVER OF PARTS BOOKS

AS PAGE ONE, SO NO

PAGES ARE MISSING.

Ford Price List of Parts and Instruction Book of Model T



BRANCHES

BOSTON

147 Columbus Avenue

BUFFALO

727 Main Street

CHICAGO

1444 Michigan Avenue

CLEVELAND

1914 Euclid Ave., S. E.

DENVER

1556 Broadway

DETROIT

268 E. Jefferson Avenue

KANSAS CITY

1608-10 Grand Avenue

NEW YORK CITY 1721 Broadway **PHILADELPHIA**

250 N. Broad Street

ST. LOUIS

3669 Olive Street

SEATTLE

532 19th Avenue, North

EXPORT DEPT.

18 Broadway, N. Y.

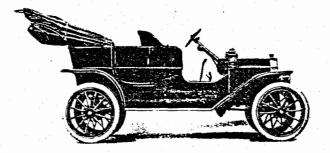
PARIS, FRANCE 6 bis, rue Auber LONDON, ENGLAND 117 Long Acre

Canadian Trade Supplied By

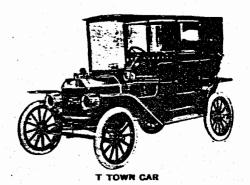
THE FORD MOTOR CO., of Canada, Limited

WALKERVILLE. ONTARIO

Standard Manufacturers-American Motor Car Manufacturers' Ass'n



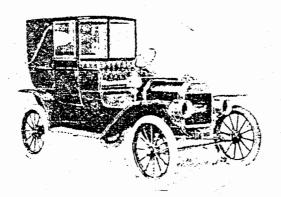
INSTRUCTIONS FOR ORDERING PARTS



T TOURING CAR

- 1. Order all parts through the branch or dealer representing us in your territory, as parts are generally carried in stock by them.
- 2. Specify model, and give number and name of each part ordered, as well as the machine number.
- 3. Cash should accompany all orders. If it is desired to have parts shipped C. O. D., a deposit sufficient to cover transportation charges must be remitted with the order.

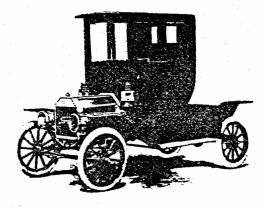
- 4. Mail orders must be accompanied by an amount sufficient to cover postage.
- 5. All prices are net f. o. b. Detroit.
- 6. Specify whether shipments are to be forwarded by mail, express or freight.
- 7. Orders for parts should be written separately from correspondence pertaining to other matters, as this will insure prompt handling by the proper department at the factory.



T LANDAULET



T ROADSTER



T COUPE

Telegraph Code

TO save expense, to expedite ordering and for the convenience of those ordering parts, we have arranged a code word for each part of the Model "T" car. In addition to the parts code we list below a brief general code covering miscellaneous instruction, questions and answers relative to the entering and shipping of parts ordered.

¶ In telegraphing an order for parts start with the code telling us how to ship, then use the word for the next part, stating the number required and then give the number of your car.

The following will illustrate how to send in an express order for 8 push rods No. 3058, 1 fan No. 496, and 3 transmission band springs No. 3425:

FORD MOTOR COMPANY,

Detroit, Mich.

Signed.

Toperig, eight Tubgener, one Tuburbain, three Tubmergin for car No. 2841.

Toperig	Ship to me (us) by express.	Topflutch	When and how will you ship parts called for in my (our) telegram of——
•	Ship by express to	Topfwasser	When and how will you ship parts called
Topermolen	Ship to me (us) by Canadian Express	•	for in my (our) letter of—
Toperoker	Ship to me (us) by U. S. Express	Topfgeld	Cancel order for parts our (my) telegram
Toperpool	Ship to me (us) by Dominion Express	Topfgicht	Cancel order for parts my (our) letter
Toperslak	Ship to me (us) by American Express	Topigiciti	of—
Topersteen	Ship to me (us) by freight	Topfkiemer	Add to our (my) telegraph order of-
Toper	Ship to me (us) by mail	Topfartig	Will send duplicate shipment by——ex-
Topfton	When and how did you ship parts called for in my (our) telegram of——	Topfhaar	press at once. Will send duplicate order——freight at once.

When writing messages in code, print the code words in capital letters.

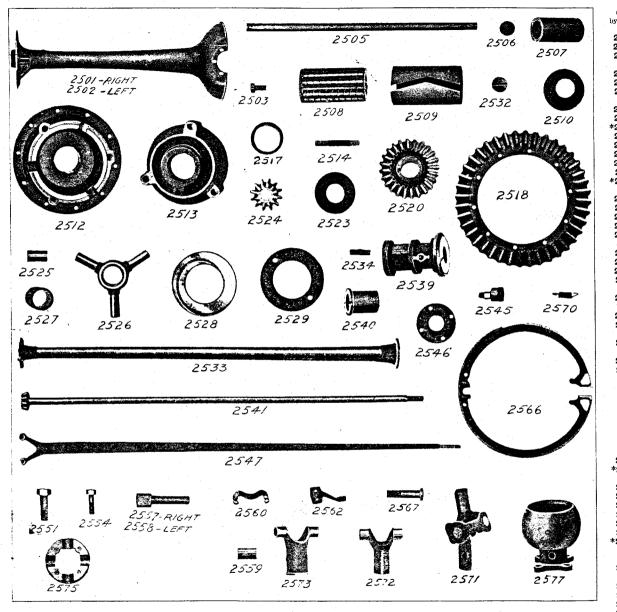
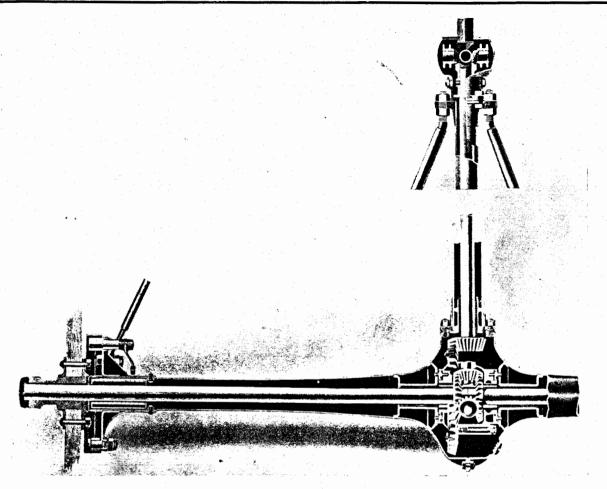


Plate 1-
Rear Axle
Parts

Order	Rear Axle				
by these Nos.	e Description.	Price.	Code Word.	Factory No.	
2501 2502	Rear axle assembly (specify color)\$ Rear axle housing—right half Rear axle housing—left half Rear axle housing bolt	16 00 16 00	Tuadebant	95B 1B 2B 42	

	D A - 1 - C			
Order	Rear Axle—Con	tinued		
these				Factors
Nos.	Description.	Price.	Code Word.	No.
504	Rear axle housing bolt nut	. 02	Tuadiais	44
505	Rear axle shaft washer (fi-	2 50	Tuadibale	40
506	Rear axie snaii inrust wasner (n-		m	
507	bre)	05 80	Tuadibas	39
508	Dear axle shaft roller hearing	1 00	Tuadibil	- 51
509	Rear axle shaft roller bearing	1 00	Tuadibox	97
	gleeve	40	Tuadiega	170
510	Rear axle housing cap	10	Tuadieot	56
511	Rear axle housing cap Differential assembly Differential case—left half Differential case—right half	30 00	Tuadiera	36
512	Differential case—left half	5 00	Tuadiera Tuadierect	1013
513	Differential case—right half	4 00	Tuadieron	11
514	Differential case stud	10	Tuadistes	52
515	Differential case stud nut	05	Tuadora	53
516	Differential case stud cotter pin	01	Tuadoura	88
3517	Differential case bushing (bronze).	60	Tuaire	19
2518	Differential drive gear-40 teeth (This gear is fastened with screws and cannot	8 00	Tuandobil	12B
	(This gear is fastened with screws and cannot	De substitu	ted for riveted to	rpe.)
519	Differential drive gear screw	02 2 50	Tuadones	103
3520 3521	Differential gear—24 teeth Differential gear key (Woodruff)	10	Tuarismo Tuarista	13
521	Differential gear pin, each	05	Tuasible	21 36
523	Differential gear thrust washer (fi-	,50	1 dasible	30
1020		15	Tuasion	32
2524	ber)	1 25	Tuasive	14
525	Differential pinion bushing	25	Tuasively	93
526	Differential spider with bushing	2 00	Tuasoribis	15
2527	Differential spider bushing			
	(bronze)	40	Tuasso	18
2528	Differential thrust plate washer			
	(babbitt)	50	Tuastene	30
3529	Differential thrust plate (steel)	20	Tuavely	31
2530	Differential thrust plate pin (13/32" long)			
	(13/32" long)	05	Tuavement	17
2531	Differential thrust plate pin		-	•
	(7/32" long)	05	Tuaveolen	37
2532	Differential housing oil plug	05	Tuaveolus	817
2533	Drive shaft tubing complete		_	
	(include thrust washer)	9 00	Tuavidade	153
2534				
2535	Stud		Tuavident	23
2000	stud nut	05	Tuavidico	
2536	Drive shaft and rear axle housing		i ua viuleo	8
2000	stud cotter pin	01	Tuadivorm	34
2537	stud cotter pin		I dadiyoi iii	04
	pin (3/16x3/8")	02	Tuavifia	35
2538	Drive shaft housing rivers, per doz.		Tuavifict	33
2539	Drive shaft housing rear bushing	1.00	Tuavignor	240
	Drive shaft housing rear bushing (This long bushing used after machines num	thering abo	re 7500_)	
2540	Drive shaft housing front bushing.	60	Tuavious	69
2541	Drive shaft with pinion	7 00	Tuavitate Tuaviza	154
2542	Drive shaft only	2 50	<u>T</u> uaviza	87
2543	Drive shaft pinion-11 teeth	4 50	Tuavizde	16
2544	Drive shaft pinion key (Woodruff).	10	Tuavizamo	- 57
2545	Drive shaft pinion key (Woodruff). Drive shaft grease cup Drive shaft thrust washer (steel)	15	Tuavizape	76
2546	Drive shaft thrust washer (stee!)		m	
	each	15	Tuavizent	221
2547	Rear radius rod (right or left)	3 50 05	Tuavizora	152
2548	Rear radius rod nut	05	Tuavizon	77 78
2549	Rear radius rod nut cotter pin	01	Tuavizque Tubasurd	82
2550	Bear radius rod holt	05	Tubaccusa	83
2551	Beer reding red bolt nut	05	Tubacetat	84
2552 2553	Rear radius rod bolt	01	Tubacidos	85
2000 2554	Rear radius rod ball joint support		_ 45461405	
2004	holt	05	Tubacques	79
2555	bolt			
	bolt nut	. 05	Tubacribu	80
2556	Rear radius rod cotter pin	01	Tubacrib	81
2557	bolt nut			
			Tubact	921
	Order from list on page 5 for machines n	umbered be	elow 2580.	





Sectional View -
Rear Axle,
Differential, etc.

Order	Rear Axle—Cont	inued		
by these	9			Factory
Nos.	Description.	Price	Code Word.	No.
2558	Hub brake cam shaft—left			
	(oval cam)	30	Tubactaro	61 B
2559	Hub brake cam shaft bushing	20	Tubaction	173
2560	Hub brake spring	05	Tubactrem	63
2561	Hub brake spring rivet, per doz	05	Tubadjuva	64
	Hub brake cam shaft lever	30	Tubadjuz	62
2563	Hub brake cam shaft lever pin	02	Tubadmovo	7
2564	Hub brake cam shaft lever clevis			
	pin	02	Tubagrege	65
2565	Hub brake lever clevis pin cotter	01	Tubagrest	66
	(Above parts comprise rear axle			
	assembly)			
2566	Hub brake shoe (cast iron)	75	Tubading	55
	Hub brake shoe support bolt	05	Tubaile	59
2568	Hub brake shoe support bolt nut	05	Tubalar	60
	Hub brake shoe coil spring	05	Tubalbens	67
	Universal joint assembly	2 75	Tubalbib	151
	Universal joint knuckle (male half)	1 00 .	Tubalboat	45B
	Universal joint knuckle (female			
	half)	1 00	Tubalbay	46B

Rear Axle—Continued

Nos.	Description.	Pr	ice.	Code Word	No,
2574 *2575	Universal joint knuckle pin Universal joint ring complete		05	Tubalbula	6
	(drop forging)		75	Tubalcaid	49
2576	Universal joint ring rivets, each		05	Tubalkins	50
2577	Universal joint housing	1	00	Tubaltenu	70
2578	Universal joint housing plug		05	Tubambige	75
2579	Universal ball cap oil hole plug				
	(brass)		10	Tubambros	156
2580	Universal ball cap felt gasket		10	Tubamigue	1518
	*Order following parts for machines number	ed b	ełow	2500.	
10	Differential gear case-left half\$	5	00	Tuadieres	
12	Differential driving gear—40 teeth.		00	Tuanetes	
38	Differential driving gear rivet	-	02	Tuardones	_
0.4	Drive shaft housing bushing—rear.	1	00	Tuaviogy	
45	Universal joint knuckle (male)		00	Tuabalbido	
46	Universal joint knuckle (female)		00	Tubalborn	
40	Universal joint brass ring com-	_		1 abaiboin	
43	plete	1	25	Tubalcaid	
- 00	Drive shaft thrust washer	_	15	Tuavizar	
- 55	Hub brake shoe (brass)	2	00	Tubaiding	
33	nub brake slibe (brass)	_		2 404141116	
	Rear Axle 60" T	re.	ad		
	Real Hills of L				
0500	Rear axle assembly	80	00	Tubamis	
2600	Rear axle housing—right		00	Tubamit	1701¢
2601	Rear ayle housing—lett	16		Tubamore	1702B
2602	Rear axle shafts, each	2	50	Tubamoty	
2603	Rear spring	14	00	Tubanton	1704
2604	Rear radius rod (right or lett)	- 3	50	Tubantully	1726
2605	Rear axle housing—right Rear axle housing—left Rear axle shafts, each Rear spring Rear radius rod (right or left) Hub brake pull rod—right Hub brake pull rod—left		45	Tubapantor	1/10B
0000	The boundary will made loft				
2000	Hub brake bull rou—left		45	Tubapegth	1721
2000	Hub brake pull rod—left		45	Tubapegth	1721
2006	Front Axle		45	Tubapegth	1721
	Front Axle		45	Tubapegth	1721
2700	Front Axle	30		Tubapegth	
2700	Front Axle	30		Tubapegth Tubapenin	261
2700 2701	Front Axle Front axle assembly (specify color) \$ Front axle only	30 12	00	Tubapegth Tubapenin Tubapent	261 202
2700 2701	Front Axle Front axle assembly (specify color) \$ Front axle only	•	00 00 00	Tubapenin Tubapenin Tubapent Tubaperes	261 202 203
2700 2701 2702	Front Axle Front axle assembly (specify color)	•	00 00 00 00	Tubapenin Tubapenin Tubapent Tubaperes Tubaperio	261 202 203 204
2700 2701 2702 2703 2704	Front Axle Front axle assembly (specify color)	•	00 00 00	Tubapenin Tubapenin Tubapent Tubaperes	261 202 203
2700 2701 2702 2703 2704	Front Axle Front axle assembly (specify color)	•	00 00 00 00 40	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt	261 202 203 204 205
2700 2701 2702 2703 2704 2705	Front Axle Front axle assembly (specify color)	4	00 00 00 00 40	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubaokalt Tubaquat	261 202 203 204 205
2700 2701 2702 2703 2704 2705	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 30	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaqueos	261 202 203 204 205 206 207
2700 2701 2702 2703 2704 2705 2706 2707	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 30	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubaokalt Tubaquat Tubaquat Tubaquilo	261 202 203 204 205 206 207 208
2700 2701 2702 2703 2704 2705 2706 2707 2708	Front Axle Front axle assembly (specify color) Front axle only Spindle assembly—rig.t Spindle stationary cone (inside) Spindle adjusting cone—right thread Spindle adjusting cone—left thread Spindle nut—right thread Spindle nut—left thread Spindle washer	4	00 00 00 00 40	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaqueos	261 202 203 204 205 206 207
2700 2701 2702 2703 2704 2705 2706 2707 2708	Front Axle Front axle assembly (specify color) Front axle only Spindle assembly—rig.t Spindle stationary cone (inside) Spindle adjusting cone—right thread Spindle adjusting cone—left thread Spindle nut—right thread Spindle nut—left thread Spindle washer	4	00 00 00 40 30 30 05 05	Tubapegth Tubapenin Tubapent Tubaperic Tubaperic Tubapkalt Tubaquat Tubaquat Tubaquilo Tubaqulos Tubaqulos Tubaqulos	261 202 203 204 205 206 207 208 209
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 30 05 05	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubapkalt Tubaquat Tubaquaos Tubaquilo Tubaqulos Tubarabun Tubarando	261 202 203 204 205 206 207 208 209 210
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 30 05 05 05	Tubapegth Tubapenin Tubapent Tubaperic Tubaperic Tubapkalt Tubaquat Tubaquat Tubaquilo Tubaqulos Tubaqulos Tubaqulos	261 202 203 204 205 206 207 208 209 210 21138
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 30 05 05 05	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubapkalt Tubaquat Tubaquaos Tubaquilo Tubaqulos Tubarabun Tubarando	261 202 203 204 205 206 207 208 209 210 21138
2700 2701 2702 2703 2704 2705 2706 2707 2708 2708 2710 2711 2713	Front Axle Front axle assembly (specify color)	4	00 00 00 00 40 30 05 05 05 50 05	Tubapegth Tubapenin Tubapent Tubaperio Tubapkalt Tubaquat Tubaquat Tubaquilo Tubaqulos Tubaqulos Tubarabun Tubarando Tubarator	261 202 203 204 205 206 207 208 209 210 2113
2700 2701 2702 2703 2704 2705 2706 2707 2708 2710 2711 2711 2711 2714	Front Axle Front axle assembly (specify color)	4	00 00 00 00 40 30 50 50 50 50	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubaperio Tubaquat Tubaquaeo Tubaquilo Tubaquilo Tubarabun Tubarando Tubarator Tubardust	261 202 203 204 205 206 207 208 209 210 2113 212
2700 2701 2702 2703 2704 2705 2706 2707 2708 2710 2711 2711 2711 2714	Front Axle Front axle assembly (specify color)	4	00 00 00 00 40 30 05 05 05 50 50 50 51 50	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubaperio Tubaquio Tubaquilo Tubaquilo Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2711 2713 2714 2715 2716	Front Axle Front axle assembly (specify color)	4	00 00 00 40 30 05 05 05 05 05 20	Tubapegth Tubapenin Tubapenin Tubaperes Tubaperio Tubaperio Tubaquat Tubaquilo Tubaquilos Tubarabun Tubarando Tubarator Tubardust Tubardust Tubaresa	261 202 203 204 205 206 207 208 209 210 2113 212
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2711 2713 2714 2715 2716	Front Axle Front axle assembly (specify color) Front axle only Spindle assembly—rigt Spindle stationary cone (inside) Spindle adjusting cone—right thread Spindle adjusting cone—left thread Spindle nut—right thread Spindle nut—left thread Spindle washer Spindle bolt Spindle bolt nut Spindle body bushing (both upper and lower) each Spindle arm bushing Spindle oiler Steering spindle connecting rod with yoke	2	00 00 00 00 40 30 05 05 05 05 05 05 05	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaqualo Tubaqulos Tubaqulos Tubarabun Tubarando Tubarator Tubaress Tubaresso Tubaresso Tubarmale	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2711 2713 2714 2715 2716	Front Axle Front axle assembly (specify color) \$ Front axle only \$ Spindle assembly—rig.t \$ Spindle assembly—left \$ Spindle atsionary cone (inside) \$ Spindle adjusting cone—right thread \$ Spindle adjusting cone—left thread \$ Spindle nut—right thread \$ Spindle nut—left thread \$ Spindle washer \$ Spindle bolt \$ Spindle bolt nut \$ Spindle bolt nut \$ Spindle bolt nut \$ Spindle arm bushing (both upper and lower) each \$ Spindle oiler \$ Steering spindle connecting rod with yoke \$ Steering spindle connecting rod with ball bin only \$ Steering spindle connecting rod with ball bin only \$ Steering spindle connecting rod \$ Steering spindle c	2	00 00 00 00 40 30 05 05 05 50 50 50 51 50	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubaperio Tubaquio Tubaquilo Tubaquilo Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218
2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2711 2713 2714 2715 2716	Front Axle Front axle assembly (specify color) \$ Front axle only \$ Spindle assembly—rig.t \$ Spindle assembly—left \$ Spindle atsionary cone (inside) \$ Spindle adjusting cone—right thread \$ Spindle adjusting cone—left thread \$ Spindle nut—right thread \$ Spindle nut—left thread \$ Spindle washer \$ Spindle bolt \$ Spindle bolt nut \$ Spindle bolt nut \$ Spindle bolt nut \$ Spindle arm bushing (both upper and lower) each \$ Spindle oiler \$ Steering spindle connecting rod with yoke \$ Steering spindle connecting rod with ball bin only \$ Steering spindle connecting rod with ball bin only \$ Steering spindle connecting rod \$ Steering spindle c	2	00 00 00 00 00 00 00 00 00 00 00 00 00	Tubapegth Tubapenin Tubapenin Tubaperes Tubaperio Tubaquelos Tubaquilo Tubaquilos Tubarabun Tubarabun Tubarator Tubardust Tubardust Tubardust Tubaresa Tubaresco Tubarmale Tubasper	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264
2700 2701 2702 2703 2704 2705 2706 2707 2718 2711 2713 2714 2715 2716 2717	Front Axle Front axle assembly (specify color) Spindle assembly—rig.t Spindle assembly—left Spindle stationary cone (inside) Spindle adjusting cone—right thread Spindle adjusting cone—left thread Spindle nut—right thread Spindle nut—left thread Spindle washer Spindle bolt Spindle bolt nut Spindle bolt nut Spindle body bushing (both upper and lower) each Spindle arm bushing Spindle oiler Steering spindle connecting rod with yoke Steering spindle connecting rod with ball pin only Steering rod Steering rod Steering rod Steering rod Steering spindle connecting rod Steering spindle connecting rod Steering spindle connecting rod	2	00 00 00 00 40 30 05 05 05 05 05 05 05	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaqualo Tubaqulos Tubaqulos Tubarabun Tubarando Tubarator Tubaress Tubaresso Tubaresso Tubarmale	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218
2700 2701 2702 2703 2704 2705 2706 2707 2718 2711 2713 2714 2715 2716 2717	Front Axle Front axle assembly (specify color)	2	000 000 000 400 300 005 005 500 15 600 005	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubaqueos Tubaquilo Tubaquilo Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco Tubarmale Tubasper Tubassam	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264 268
2700 2701 2702 2703 2704 2705 2706 2707 2718 2711 2711 2711 2715 2716 2717 2718	Front Axle Front axle assembly (specify color)	2	00 00 00 00 00 00 00 00 00 00 00 00 00	Tubapegth Tubapenin Tubapenin Tubaperes Tubaperio Tubaquelos Tubaquilo Tubaquilos Tubarabun Tubarabun Tubarator Tubardust Tubardust Tubardust Tubaresa Tubaresco Tubarmale Tubasper	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264
2700 2701 2702 2703 2704 2705 2706 2707 2718 2711 2711 2711 2715 2716 2717 2718	Front Axle Front axle assembly (specify color) Spindle assembly—left Spindle stationary cone (inside) Spindle adjusting cone—right thread Spindle adjusting cone—left thread Spindle nut—left thread Spindle nut—left thread Spindle washer Spindle bolt Spindle bolt nut Spindle bolt nut Spindle bolt nut Spindle is washer Spindle solt nut Spindle foot nut Spindle solt nut Spindle connecting (both upper and lower) each Spindle arm bushing Spindle oiler Steering spindle connecting rod with yoke Steering spindle connecting rod bolt (2-7/16") Steering spindle connecting rod bolt nut Steering spindle connecting rod bolt nut Steering spindle connecting rod	2	00 00 00 00 40 05 05 50 00 05 05 05	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaquat Tubaqualos Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco Tubarmale Tubassam Tubassam Tubassese	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264 268 216
2700 2701 2702 2703 2704 2705 2706 2709 2710 2713 2714 2715 2716 2717 2718 2719	Front Axle Front axle assembly (specify color)	2	000 000 000 400 300 005 005 500 15 600 005	Tubapegth Tubapenin Tubapent Tubaperio Tubaperio Tubaqueos Tubaquilo Tubaquilo Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco Tubarmale Tubasper Tubassam	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264 268
2700 2701 2702 2703 2704 2705 2706 2709 2710 2713 2714 2715 2716 2717 2718 2719	Front Axle Front axle assembly (specify color)	2	00 00 00 00 40 30 05 50 05 50 05 60 05 60	Tubapegth Tubapenin Tubapent Tubapers Tubaperio Tubapkalt Tubaquat Tubaquat Tubaqualo Tubaqualo Tubarabun Tubarando Tubarator Tubardust Tubaresco Tubarmale Tubassam Tubassese Tubassese Tubastam	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264 268 216 231
2700 2701 2702 2703 2704 2705 2706 2709 2710 2711 2713 2714 2715 2716 2717 2718 2719 2719	Front Axle Front axle assembly (specify color)	2 2	00 00 00 00 40 30 30 05 50 05 50 00 05 60 05	Tubapegth Tubapenin Tubapent Tubaperes Tubaperio Tubapkalt Tubaquat Tubaqualo Tubaquilo Tubarabun Tubarando Tubarator Tubardust Tubaresa Tubaresco Tubarmale Tubassam Tubassese Tubastam Tubastane	261 202 203 204 205 206 207 208 209 210 2113 212 223 225 218 264 268 216 231 248 250
2700 2701 2702 2703 2704 2705 2706 2709 2710 2711 2713 2714 2715 2716 2717 2718 2719 2719	Front Axle Front axle assembly (specify color)	2 2	00 00 00 00 40 30 30 05 50 05 50 00 05 60 05	Tubapegth Tubapenin Tubapent Tubapers Tubaperio Tubapkalt Tubaquat Tubaquat Tubaqualo Tubaqualo Tubarabun Tubarando Tubarator Tubardust Tubaresco Tubarmale Tubassam Tubassese Tubassese Tubastam	261 202 203 204 205 206 207 208 209 210 2113 225 218 264 268 216 231

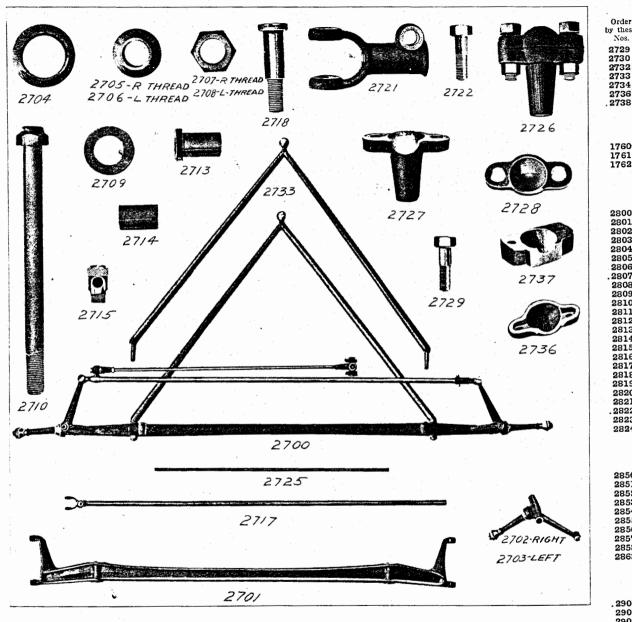


Plate :	2
Front	Axle
Parts	

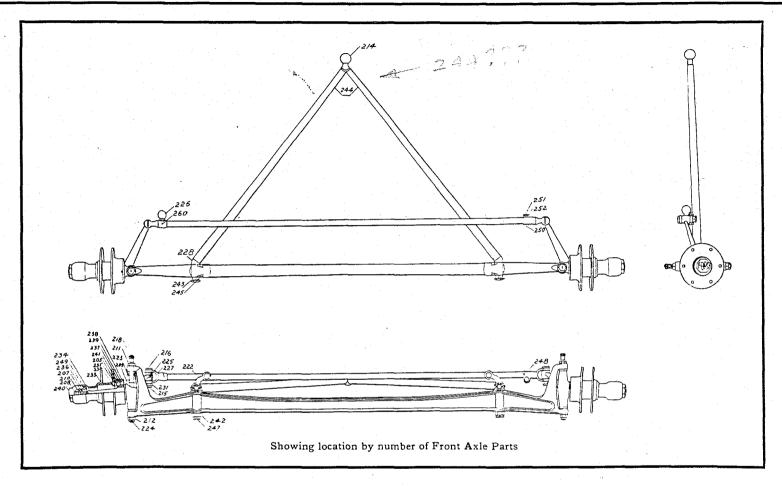
1 4

Front Axle—Continued

these vos.	Description.	Price.	Code Word.	Factory No.
726 727	Steering gear connecting rod only . Steering ball socket assembly Steering ball socket only Steering ball socket cap	30 1 00 50 20	Tubastasi Tubastato Tubastava Tubasto	258 266 253 254B

Front Axle—Continued

Order y these Nos.	Description.	Price.	Code Word. No	
2729 5 2730 5 2732 5 2733 1	Steering ball socket bolt Steering ball socket bolt nut Steering ball socket lock nut Front radius rod Front radius rod nut Front radius rod ball cap Front radius rod ball cap	05 03 03 5 00 05	Tubastral 255 Tubaud 256 Tubaurab 257 Tubaurad 263 Tubaurtos 245 Tubauster 217 Tubbajlas 810	i i i
	Front Axle 60" T	read		
1761	Front axle only Steering spindle connecting rod Steering gear connecting rod only .	12 00 2 60 30	Tubazlt 1726 Tubhajnon 1725 Tubbajtoz 1719	5
	Wheels			
2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2820 2821 2822 2823	Front wheel—red Front wheel—green Front wheel—gray Front hub assembly Front hub outer race (small) Front hub outer ball retainer Front hub inner race (large) Front hub inner ball retainer Front hub inner ball retainer Front hub dist ring (steel) Front hub felt washer Front hub large balls (½") Front hub small balls (½") Front hub small balls (¾") Rear wheel—green Rear wheel—green Rear hub Rear hub key Rear hub key Rear hub pin Rear hub pin Rear hub pin Hub cap Hub bolt Hub bolt nut Hub flange (front) Hub flange (rear) Rear hub felt washer	12 00 12 00 6 00 6 00 10 10 25 05 05 04 12 00 12 00 12 00 05 02 1 50 05 05 05 05 05	Tubbisato Tubbracha Tubbrade Tubbrevia Tubbrevoti 23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Frame			
2851 2852 2853 2854 2855 2856 2857	Frame assembly Frame side member—right Frame side member—left Frame front cross member Frame front corner bracket—right Frame front corner bracket—left Frame rear corner bracket—left Frame rear corner bracket—left Frame body bracket (on frame)	25 00 7 00 7 00 3 00 3 00 50 50 50 15		01 02 03 04 05 06
	Gasoline Tar	nk		
2901 2902 2903 2904 2905 2907 2908	Gasoline tank Gasoline tank filling plug Gasoline tank sediment bulb Gasoline tank bolt (25/32" long) Gasoline tank bolt (29/32" long) Gasoline tank bolt nut Gasoline tank stop cock Gasoline tank pet cock Gasoline tank feed pipe Gasoline tank feed pipe	5 00 30 35 05 05 03 35 25 40	Tubcomnun 13: Tubconque 13: Tubconsay 13: Tubcontin 13: Tubcoxques 13:	17 19 20 23 21 43 42



en		

Factory by these Description. Tubcortad 1413 Tubcortex 1414 Tubcosyn 1415B *2925 Front fender—left (specify color). *2926 Front fender—right (specify color) *2927 Rear fender—left (specify color). 4 00 4 00 3 50 3 50 *2928 Rear fender—right (specify color) 2929 Front fender iron (right or left). *2930 Rear fender iron—right *2931 Rear fender iron—left Tubcoyter 1416B Tuberania 343 1 50 Tuberowd 342B Tuberoyler 349B 1 50 2932 Fender iron bolt—short Tubcruned 345 Tubernet 347 Tubernot 346 Tubeunaid 346 Tubeunozr 1942 2933 Fender iron bolt—long 2934 Fender iron bolt nut 05 03 15 2935 Fender eye bolt Tubcunuab 1943 03 Tubeunuth 1944

Running Boards

*2941 Running board (pressed steel)		Tubcunutt	
2942 Running board metal shield-left .	2 50	Tubcurvos	1408
2943 Running board metal shield-right.	2 50	Tubcustos	1409

Running Boards—Continued

Order by these Nos.	a Description.	Price.	Code Word.	Factory No.
2945 2946 2947 2948 2949 2950	Running board fender bolt	05 02 75 40 02 05 02 03	Tubculile Tubdebous Tubdeacana Tubdecupe Tubdefend Tubdegnoy Tubdelero Tubdeloth	
	Fenders and Running Boar	ds(0" Tread	!
3876 3877 3878 3879	Front fender—right	4 00 4 00 1 00 1 50 1 50 2 50	Tubdelta Tubdelsog Tubdeming Tubdentick Tubdentory Tubdeptic	1716 1713 1711 1712

*Order from list on page 8 for machines numbered below 2500.

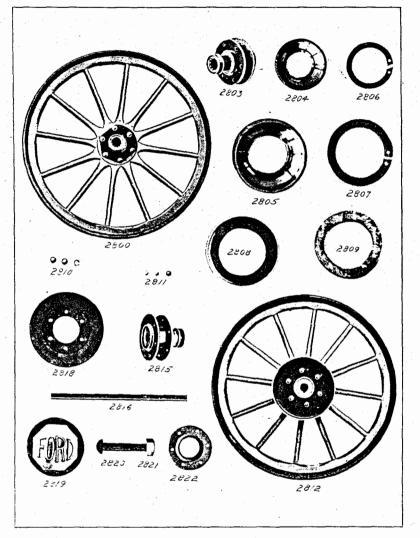


Plate 3-Wheels and Parts

Fenders and Running Boards 60" Tread-Continued

Order by three Nos.	Pescription.	Price.	Code Word.	Factory No.			
3882	Running board metal shield—left Running board brackets each	2 50 75 40	Tubdegrin Tubdercip Tubdestirn	1714			
(Order following parts for machines below 2500.)							
Fenders and Running Boards							

1415	Rear fender—left	3 50	Tubcortom
1416	Rear fender—right	3 50	Tubcostal

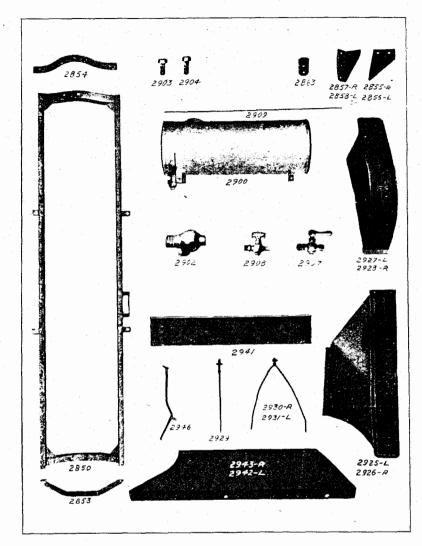


Plate 4-Frame, Fenders and Tank with Parts

Fenders and Running Boards-Continued

Order y these			
Nos.	Description.	Price.	Code Word
342 349 1410 1411 1412 1421 1422	Rear fender iron—right Rear fender iron—left Running board complete—right Running board complete—left Running board rubber matting Running board brass (rear end) Running board brass (left outside) Running board brass (front end)	1 50 1 50 4 00 4 00 1 00 30 75	Tuberudum Tuberuna Tubeurote Tubeurral Tubeutano Tubdamus Tubdaecon
	Running board brass screw (5%")	01	Tubdealas

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

Motor Parts

Fenders and Running Boards—Continued Order by these Description. Code Word. 1425 Running board brass (right out-Tubdealbo Tubdean 75 1487 Running board brass (right inside) Tubdeary 1488 Running board brass screw (1/2").. Tubdebams 1344 Running board fender bolt 05 Tubdebile 1347 Running board fender bolt nut 02 Tubdebous 340 Running board bolt Tubdela Motor (Thermo-Syphon) *3000 Cylinder only 30 00 Tubdiat 400B *3001 Cylinder head 5 00 Tubdianon 401C *3002 Cylinder head copper gasket 1 00 Tubdibcul 402B *3003 Cylinder head cap screw (7/16" x 2-7/16")*3004 Cylinder head outlet connection ... Tubdicken 483B Tubdictel 25 446C *3005 Cylinder head outlet connection copper gasket 15 Tubdidron 445B *3006 Cylinder head outlet hose (3-1/4" 30 Tubdienez 448B long) 3007 Cylinder head outlet hose clip 10 Tubdifido 554 *3008 Cylinder head outlet connection screw (1-21/64" long) Tubdigitor 550C *3009 Cylinder cover (front end) 1 75 Tubdivory 403B 3010 Cylinder cover bolt (13/16" long)... Tubdilosty 589 3011 Cylinder cover cap screw Tubdimida 432 3012 Cylinder cover felt 10 Tubditasm 504 *3013 Cylinder cover paper liner 3014 Cylinder cover bolt (1-7/32" long)... Tubditeck 505B Tubditolt 484 *3015 Cylinder water inlet connection 25 Tubditoyer 442B (east iron) 3016 Cylinder water inlet connection screw (1-1/2" long) Tubditunck 597 3017 Cylinder water inlet pack nut 15 Tubdituro 444 Tubdiuray 3018 Cylinder water inlet gasket 596 3019 Cylinder water jacket plug 10 Tubdivid 557 4 00 Tubdixons 586B *3020 Piston complete (3 ring type).... Tubdiyert 418C *3021 Piston only (3 ring type)..... 3 00 *3022 Piston pin 50 Tubdizolt 419B 3023 Piston ring Tubdoctor 422 *3024 Connecting rod (no bushing in upper end) 2 50 Tubdodder 587B

05

03

1 10

6 00

05

Tubdoghot

05 Tubductur 578

Tubdudery

Tubduniot

1 00 Tubdupcat 407B

15 Tubduplas 408

05 Tubdorrum 409

Tubdecorn

Tubdedurl

Tubdepcir

Tuberamid

Tuberanol

Tubevrox

Tubexcuse

Tubexplic

Tubfeudo

Tubfeum

05 Tubdenock

Tubduros

Tubdyort

Tubduable 490

Tubduemus 500

489B

498B

405B

406B

501B

502B

503B

529B

410

411

413

534

414

415

412B

3025 Connecting rod cap bolt

3026 Connecting rod cap bolt nut

3027 Connecting rod cap bolt cotter pin .

3031 Crank shaft rear bearing cap

3033 Crank shaft center bearing cap

3034 Crank shaft bearing bolt (center and front) (6-1/16" long)

3035 Crank shaft bearing bolt nut

3037 Crank shaft center bearing liner ...

3038 Crank shaft front bearing liner

3039 Crank shaft rear bearing liner

3040 Crank shaft starting pin (2-11/16" long)

3041 Cam shaft

3042 Cam shaft front bearing

3043 Cam shaft center bearing

3044 Cam shaft rear bearing (bronze) ..

3045 Cam shaft bearing ring

3046 Cam shaft bearing set screw

3047 Cam shaft gear-large

3036 Crank shaft rear bearing bolt

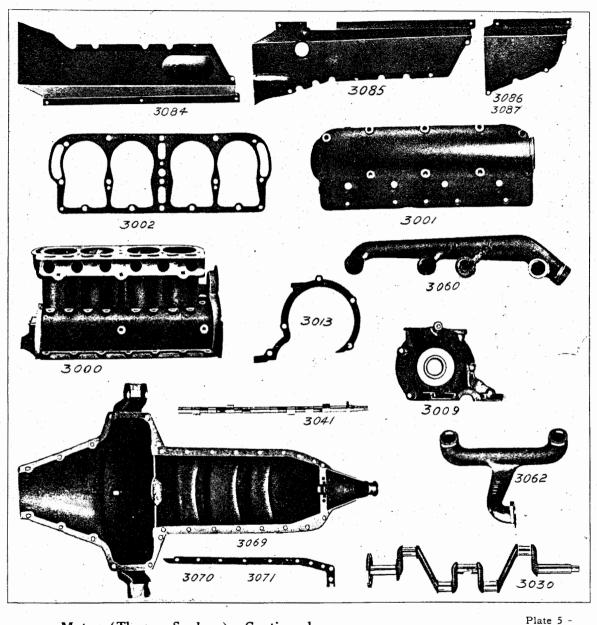
(1" long)

*3030 Crank shaft 16 00

3032 Crank shaft front bearing cap 1 00

(4-7/16" long)

3029 Connecting rod clamp screw



Motor (Thermo-Syphon)—Continued

Description.

3049 Cam shaft gear dowel pin

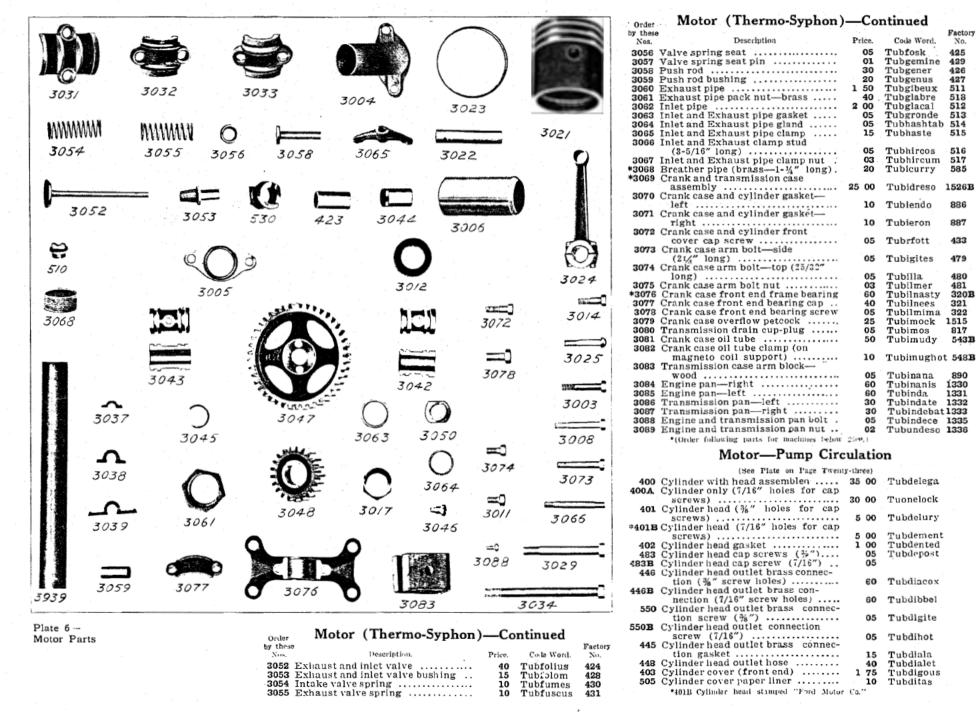
3050 Cam shaft large gear lock nut

Factory Price. Code Word. 05 Tubfidros 417 15 Tubfolice 475 05 Tubfolion

3048 Cam shaft gear-small 1 00 Tubfeunos 416 3051 Cam shaft small gear key ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

by these

Nos.



trans cover)

Motor-Pump Circulation-Continued Order by these Factory Description. 442 Cylinder water inlet brass connec-30 Tubdited 15 Tubdituro 568B Piston assembly (3 ring type-used with connecting rod having piston pin bushing)..... 4 00 Tubdivine 418 Piston only 3 00 Tubdivisti Tubdoceas **419** Piston pin **420** Piston pin screw Tubdoceba 587 Conneting rod assembly (bushing Tubdolor in head end) 423 Connecting rod piston pin bushing . Tubducton 498 Crank shaft 16 00 Tubdument 530 Crank shaft ratchet Tubepinex 529 Crank shaft ratchet pin Tubequal 543 Crank case oil tube Tubepost 520 Crank case front end frame bearing Tubilnem 90 Tubhorido **582** Breather pipe (1" tube) 800 Crank and transmission lower case. Tubidres Commutator 3200 Commutator assembly \$ 3 50 Tubindud **3201** Commutator body 1 25 Tubinental 461 3202 Commutator cover Tubinfer 3203 Commutator cover screw-brass ... Tubinfos Tubunfoud Tubinfule 574 3206 Commutator brush cap (steel) Tubunsule 468 3207 Commutator brush cap pin Tubintrat 466 3208 Commutator fibre assembly Tubuntroe 575 3209 Commutator contact point 10 Tubinvine 464 3210 Commutator contact point nut Tubinvito 472 3211 Commutator contact point fibre in-Tubirate Tubiranno sulator 473 3212 Commutator thumb nut-brass ... 467 3213 Commutator felt ring 10 Tubirateo 474 3214 Commutator roller (%" outside diameter) 3215 Commutator roller pin 3216 Commutator roller arm (for %" 10 Tubiratos 470B Tubirebbe roller) Tubireld 460B 3217 Communator roller arm pin Tubiremo 476 3218 Commutator roller spring 05 Tubiriams 469 Showing location by number of Motor Parts 3219 Commutator roller and arm 40 Tubireno 571 3220 Commutator lock nut 10 471 3221 Commutator roller (1/2" outside diameter) 10 Tubiruner 470 Magneto—Continued 3222 Commutator roller arm (for 34" roller) 30 Tubiryler 460 Code Word. Description. 10 Tubjeccente1508 3261 Magneto contact thumb nut Magneto Tubjected 1509 3262 Magneto contact spring 05 Tubjection 1510 3263 Magnet contact washer (brass) ... 3250 Magneto coil assembly 20 00 Tubissais 591B 20 Tubjectif 1516 3264 Magneto contact tube (brass) 3251 Magneto coil support 2 00 Tubissant 15 Tubjectue 1503 3265 Magnet insulating fibre washer 3252 Magneto coil support screw to 3266 Magneto insulating fibre washer crank case Tubis = e 03 Tubjewel 1505 3253 Magnet (specify thickness at face) Tubissimo 536B screw 3254 Magnet bolt Tubista 3267 Magneto insulating fibre block 10 Tubjoined 1504 3255 Magnet washer Tubistels 540 3268 Magneto insulating fibre block 3256 Magnet washer screw Tubitaped 541 screw 03 Tubjoinem 1512 3257 Magnet brass supports (16) each .. 15 Tubitaro 535B 7 00 Tubjubago 701 3269 Fly wheel 3258 Magnet clamp screw wire (44" 10 Tubjugdor 721 3270 Fly wheel cap screw 05 Tubitates 3271 Fly wheel dowel pin 10 Tubjugete 722 10 Tubjurtig 584 3272 Magneto coil support shim long) 05 Tubitave *3273 Magnet support (bronze) 3 00 Tubitaron 3260 Magneto contact assembly (on

*Used on machines numbering below 2500.

50 Tubjaemus 1545

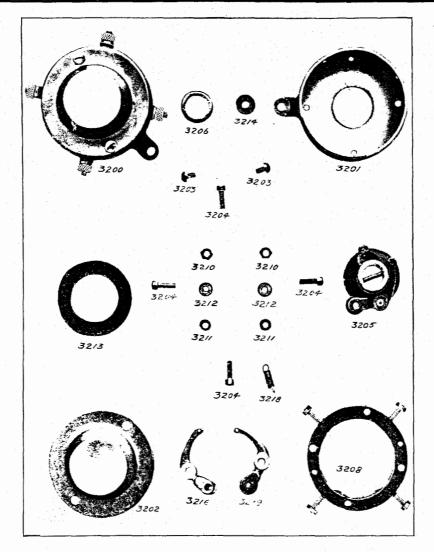


Plate 7-Commutator Parts

Order	Transmission	1				
by these	Description.	p	rice.	Code Word.	Factory No.	
3300	Transmission assembly\$				744B	
3301	Transmission reverse plate	6	50	Tubjugorm	747	
	Transmission reverse plate	2	50	Tubjuncto	702	
	Transmission reverse gear (30 teeth)	2	7 5	Tubjunk	703	
	Transmission reverse gear bushing. Transmission reverse plate rivet	1	00	Tubjurm Tublaba	705 708	
	Transmission slow speed plate		US	I ubidba	,,00	
	assembly	6	75	Tublabana	748	

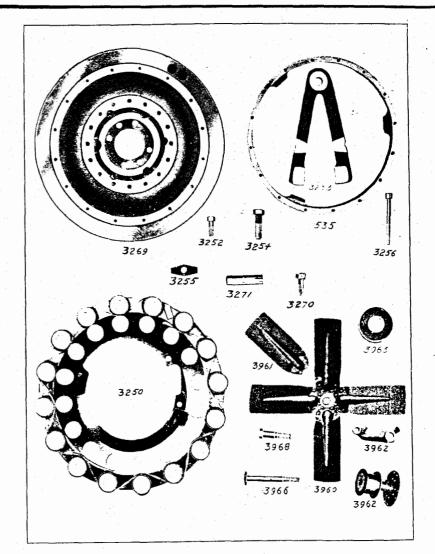


Plate 8 Fly Wheel, Magneto and Fan Parts

Order	Transmission—Co	nti	nue	ed	
by these Nos.	Pescription.	P	rice.	Code Word,	Factory No.
3307	Transmission slow speed plate	2	50	Tublabend	706
	Transmission slow speed gear (21 teeth)	3	00	Tublabia .	707
	Transmission slow speed gear bushing	1	00 03	Tublabo Tublaboat	745 708
3310	Transmission slow speed plate rivet Transmission brake drum assembly	10	00	Tublabold	750
3312	Transmission brake drum only Transmission triple gear assembly.	5 6	00	Tublabone Tublabous	709 751B
*3314	Transmission triple gear bushing .		50	Tublabrat	716B

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

3342

Plate 9 — Transmission Parts

	es e			
3315	s. Description.			Factory
3316	5 Transmission triple gear shaft	Price. 50	Code Word. Tublabriy	No. 715
2011	6 Transmission triple gear riveting pin	05	Tublacens	720
	7 Transmission driven gear (27 teeth)	2 00 10	Tublacrim Tublapsar	713 714
	9 Transmission driven gear key (on brake drum)	4 00	Tublapsi	710
*3320	O Transmission driven gear sleeve bushing	60	Tublapdode	
3321	1 Transmission driving plate as- sembly (including clutch fingers)	8 00	Tublaquad	749
	3 Transmission driving plate screw .	3 00 10	Tublared Tublarm	730 731
	4 Transmission driving plate key 5 Transmission driving plate rivet	10 03	Tublatart Tublatine	734 736
3326	6 Transmission driving plate hub 7 Transmission driving plate bush-	3 00	Tublation	743
3328	ing	50	Tublaturo	724
3329	small) each	. 30	Tublatuss	727
	large) each O Transmission distance plate	30 40	Tublavams Tublavets	729
*3332	1 Transmission gear shaft	4 40 3 00	Tublebten Tublectory	
	3 Transmission clutch disc drum key.4 Transmission clutch disc drum set	10	Tubledder	726B
	6 Transmission clutch push ring	2 00	Tublefty Tublegero	752 704
	8 Transmission clutch finger pin	50 10	Tublet Tublevaba	732B 735
	O Transmission clutch spring 1 Transmission clutch spring sup-	50	Tublevad	737
3342	port	10	Tublevaen	738
3343	ring pin	1 20	Tubleveto Tublevo	739 740
3344	4 Transmission clutch shift	2 00	Tublicam	733
	m			
	Transmission C	over		
	O Transmission cover complete (in- cludes three pedal assembly)		Tublicory	1563
	1 Transmission cover only		Tublicutt	825B
	long) each	05 10	Tublicury Tublicyrx	825B 872
3365	4 Transmission cover gasket 5 Transmission cover door	15 75		885 1546A
	6 Transmission cover door gasket 7 Transmission cover door screws	10	Tublicant	1547B
	(4) each	05 7 5	Tubliegort Tublifort	818
	(front) O Universal ball cap bushing	2 50 1 25	Tublifuler Tubligans	819B 821B
	1 Universal ball cap bolt (13/16" long)	05	Tubligally	
337	2 Universal joint ball cap bolt (1" long)	05	Tublihogit	
3373	3 Universal ball cap bolt nut	03	Tublihurty	
	3 Transmission shaft	4 40 3 00	Tublease Tublebe	
726	6 Transmission disc drum key 6 Triple gear bushing	3 00 10 50	Tublectar Tublabrat	
	2 Driven gear sleeve bushing (2) ea.	50	Tublaposis	

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

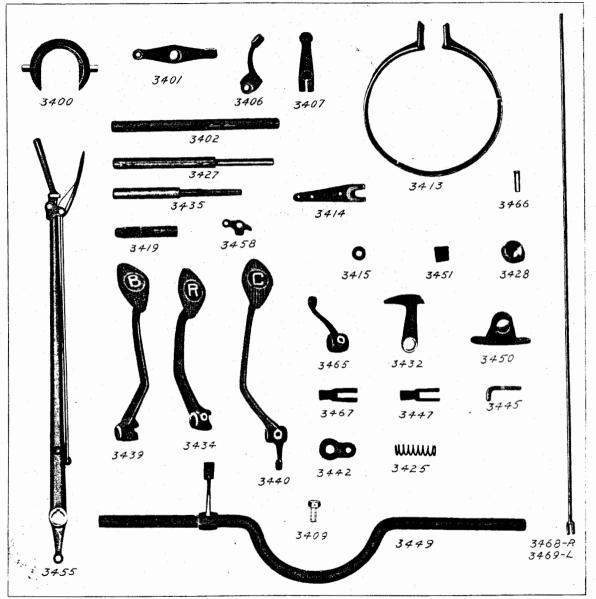


Plate	10	
Contr	ol Parts	

Order by these	Transmission Control—Thr	ee P	edal Type	Factors
Nos.	Description.	Price.	Code Word.	No.
	'ransmission clutch release ring (bronze)	1 50 30	Tublimite Tublimixer	741 806B
	lutch lever shaft (97/2" long)	25	Tublimotz	833B

Transmission Control-Three Pedal Type-Cont'd

	mammaalon control— i mee i		ıaı	Type—C	ont
Order by these					
Nos.	Description.	P	rice.	Code Word.	Factor: No.
3403	Clutch lever screw		10		1541
3404	Clutch lever screw nut		05	Tubloyal	1542
3405	Clutch lever pin		03	Tublozerno	1554
3406	Clutch release fork—right Clutch release fork—left	2	50	Tublucana	834
3408	Clutch release fork key		50 05	Tubleid Tublucius	894
3409	Clutch release fork clamp screw		05	Tubluebat	836 835
3410	Clutch release fork clamp screw Clutch release fork clamp screw wire	9	02	Tubluero	837
3411	Clutch and reverse lever clevis pin. Transmission bands (3) each		02	Tublumis	857
3413	Transmission bands (3) each	1	50	Tublunase	838E
3415	Transmission band ear Transmission band washer		20 02	Tubluteos	839
3416	Transmission band raybestos lining		50	Tubluxias	840
3419	Transmission band adjusting screw		15	Tublyre Tubmacon	1555
	Transmission band adjusting screw			1 abinacon	1533
	nut (¾" hole)		05	Tubmagical	1532
3421	Transmission band rivet (3/16" x				1002
	_ 7/16" per doz		05	Tubmarnas	842
3422	Transmission band rivet (3/16" x				
2402	5/16") per doz.		05	Tubmedial	843
3423	Transmission band rivet (3/32" x ½") per doz		05	(T) - 1	
3424	Transmission band rivets (3/32" x		US	Tubmedios	844
	7/32") per doz		05	Tubmerge	845
	Transmission band spring		05	Tubmergin	841E
3426					
3427	(7/16 x 20 th'd)		05	Tubmergus	851
3428	Slow speed shaft		30 50	Tubmerhuf	848E
3429	Slow speed notch pin		03	Tubmicky Tubmidway	829E
3430	Slow speed notch		05	1 dominuway	1559
3432	Speed lever		40	Tubmiggot	853E
3433 . 3434		_	05	Tubmiss	898
	Brake and Reverse pedal shafts	1	25	Tubmitoy	853I
.0400	(2) each		20	Tuhmina	0407
3436	Brake and Reverse pedal support		20	Tubmixa	849I
	(2) each		30	Tubmiyave	1530
3437	Brake and Reverse support bolts				
3438	(2) each		10	Tubmotixn	1534
0100	nuts (2) each		05	Tubmash	
3439	Brake nedal	1	25	Tubmoyber Tubmuddy	11535 852 1
3440	High and Slow speed pedal		25	Tubmufatt	854I
3441	Pedal pins (3) each		05	Tubmugery	
	High and Slow speed pedal support.		30	Tubmumay	у 153
3443	High and Slow-speed pedal support bolt		05		
3444	High and Slow speed pedal support		03	Tubmuney	1536
	bolt nut		05	Tubmvolit	1537
3445			15	Tubmurton	1540
3446			02	Tubmyrgus	85C
3447	Slow speed connection clevis		25	${f Tuboload}$	802
3449	Controller quadrant		60	Tuboraxi	3091
-110	sembled	1	00	Tubozalt	8671
3450	sembled		25	Tubmurmen	r 311
3451	Controller shaft bracket felt		10	Tubmused	314
3452	Controller shaft bolt		05	Tubmutedo	315
3455	Hand brake lever assembly	9	03 50	Tubmutque	316
3456	Hand brake lever pin	4	02	Tubnascel Tubnatabo	1550 866
3457	Hand brake lever pin Hand brake lever key Hand brake lever pawl Hand brake lever pawl pin Hand brake lever pawl rod		05	Tubnatads	874
3458	Hand brake lever pawl		20	Tubaviga	875
3459	Hand brake lever pawl pin		05	Tubnavimo	
3460	Hand brake lever pawl lift (in-		15	Tubnectes	877
0 104	cludes spring)		40	Tubnectum	879
3465	Hub brake lever (on controller				0.0
	shaft)		40	Tubnegart	864

Page I	ifteen .	·				
	smission Control—Three	Pedal	Туре—С	ont'd		
Order by these						
Nos.	Description.	Price.	Code Word.	Factory No.		
	ub brake lever pin		Tubnerons	865		
	ub brake lever clevis	25	Tubnerra	47	3 .	
	ub brake pull rod—right	45	Tubnervas	891B	À.	
	ub brake pull rod—left		Tubnervo	1513		
	ub brake pull rod support-right.		Tubnerzor	1367B		
	ub brake pull rod support—left		Tubnethin	1398B		
	ub brake pull rod support bolt (1"			• •		
	long)	05	Tubnexis	1399B		
3473 H	ub brake pull rod support bolt nut	02	Tubneyzal	1900		
	Steering Ge	ar				
	breering de	ai				
3500 8+	eering gear assembly	e as 00	(T) - 1			
	eering gear assembly		Tubneuter Tubneutro	900 901		
	teering gear rim screw		Tubnexed	919		
	teering gear spider		Tuborno	902		
	eering gear cover		Tubostend	9.03		
	teering gear cover screw		Tuboval	919		
3506 St	teering gear cover bushing	25	Tubovtrae	914		
	eering gear internal gear case		Tuboxice	904		
	teering gear case bushing		Tubpectin	905		
	eering gear quadrant		Tubpenne	906		
	teering gear quadrant pin		${f T}$ ubperfor	907		
	eering gear wheel nut teering gear tubing assembly (in-	20	Tubjetrol	913		
0012 5	cludes gear case, also lead and					
	throttle rods)		Tubniquet	040		
3513 St	eering gear tubing flange screw .		Tubpiquat Tubplinth	949. 927		
	eering gear tubing flange screw		r appinin	341		
	nut	10	Tubplinos	926		
3515 St	teering gear tubing flange screw					
	washer	05	Tublisse	925		
	eering gear post		Tubpolar	915		
	eering gear pinions (3) each	50	Tubporan	916		
3518 St	teering gear pinion pin (3/8" x					
	1 1/16")	05	Tubprefer	917		
	eering gear driving pinion		Tubprior	911		
	eering gear driving pinion key		Tubquarto	909		
	teering gear pinion shaft bushing.	30	Tubradend	912		
	eering gear post castle nut	05	Tubradie	951		
	hrottle rod	50	Tubrados	933		
	ead rod	50	Tubralem	934		
	ead and throttle handle (rubber) .		Tubrameal	934		
	ead and throttle rod spring	_	Tubramoso	935		
3528 L	ead and throttle rod collar	10	Tubrasos	026		

10

05

40

25

15

05

10

10

1 20

2 50

Tubrasos 936

Tubrasuro 937

Tubraucid 946

Tubraucos 947

Tubraudad 938

Tubrayater 1325B

Tubrayn 1329

Tubrayo 1326

Tubrayors 1327

Tubregano 932

Tubrigous 944

20 Tubregion 939

Tubridebe

Tubrident

Tubrigum

Tubrihort

Tubrusion

10 Tubrigor

948

1904

940

941

929B

Tubray

3529 Lead and throttle rod collar pin ...

3530 Lead rod lever

3531 Throttle rod lever

3532 Throttle rod guide

3533 Throttle and lead lever pin

3534 Commutator pull rod (14" long) ...

3535 Carburetor pull rod (13 13/16" long)

3536 Lead lever ball and socket joint ...

3537 Lead lever ball and socket joint nut

3538 Carburetor pull rod adjustment ...

3542 Steering post bracket bolt nut

3544 Steering post bracket felt washer .

3546 Steering post bracket block

3547 Steering gear ball arm

3548 Steering gear ball arm key

3540 Steering post bracket bolt (214"

3541 Steering post bracket bolt (%"

3545 Steering post bracket bushing

3539 Steering post bracket with bushing

long)

long)

(bronze)

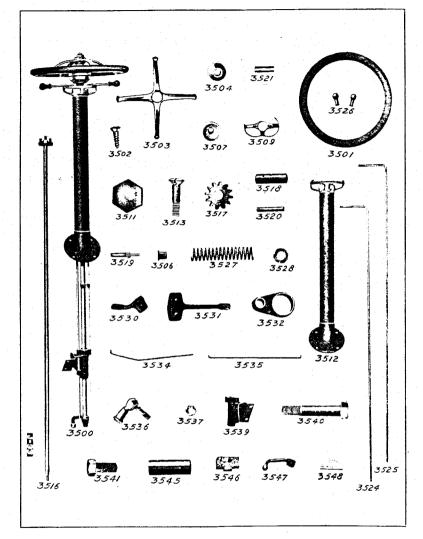


Plate 11-Steering Gear Parts

Factory

Body Parts (Touring Car) Description. Code Word.

Nos. 3601 Body bracket on body 10 Tubrogaor 1002 3602 Body bracket connecting bolt (11/2" 05 Tubroanus 1304 long)
3603 Body bracket conn bolt (25/32" 05 Tubrobnus 1305 long) 3605 Body bracket conn bolt Tubroine 1307 3606 Body bracket bolt nut 1001 Tubrole 3607 Tonneau carpet 50 Tubrond 1606 3608 Tonneau carpet fastener screw Tubrole 1602

Order

by these

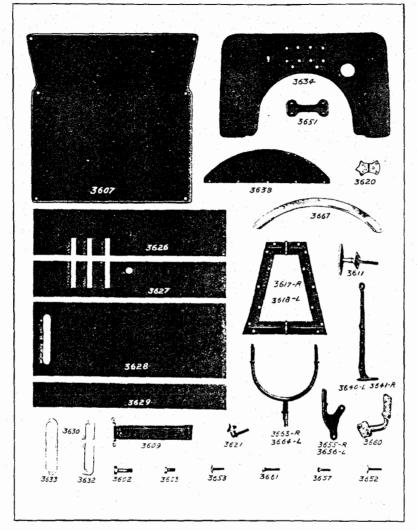


Plate 12-Floorboard and Dash with Parts

Order	Body Parts (Touring Car))—C	ontinued	
by thes	e e			Factory
Nos.	Description.	Price.	Code Word.	No.
3609	Tonneau door strap	35	Tubroste	1605
3610	Tonneau door strap clip screws	05	Tubrubect	1600
3611	Tonneau door handle	60	Tubrufarm	1443
	Tonneau door handle screw	05	Tubrumax	1479
	Tonneau door lock-left	l 50	Tubrumabo	
	Tonneau door lock-right	1 50	Tubrunult	1444B
3615	Tonnean door lock striker plate-left	30	Tubruntia	1445B
3616	Tonneau door lock striker plate-			
	right	30	Tubrupter	1446B
3617	Tonneau door hinge assembly-			
	right	1 00	Tubrustic	1632

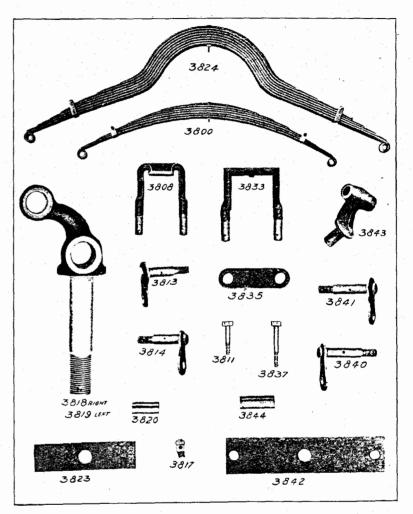


Plate 13-Springs and Parts

Order	Body Parts (Touring Car)C	ontinued	
by these				Factory
Nos.	Description.	Price.	Code Word.	No.
3618	Tonneau door hinge assembly-jeft	1 00	Tubrutile	1633
	Tonneau door hinge pin	10	Tubruto	1012
	Tonneau heel board hinge	15	Tubsaline	1019
	Tonneau heel board latch	35	Tubsalsam	1020
	Tonneau heel board hinge screw	05	Tubsalsoe	1471
	Tonneau heel board latch screw	05	Tubsalsud	1067
	Front floor ruber matting	4 00	Tubsalt	1616
	Floor board (first)	35	Tubsanact	1098B
	Floor board (second)	40	Tubsanerz	1402B
	Floor board (third)	50	Tubsanorx	
3629	Floor board (fourth)	35	Tubsatrat	1403B

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.



Order	Body Parts (Touring Car	c)—C	ontinued			Springs—Contin	used		
by thes	8			Factory	Order by these		ucu		Factory
Nos.	Description.	Price.	Code Word.	No.	Nos.	Description.	Price.	Code Word.	No.
3630	Floor board forward plate for pedal (3) each	20	Tubsayert,	1400B		Seventh leaf	1 30	Tubtility	367
3631	Floor board plate screw	05	Tubscrime		3232	Eighth leaf	1 10 25	Tubtimear Tubtinies	368 326
	Floor board rear plate for pedal (3)	- 33		N 1	3833	Rear spring clip	05	Tubtituba	328
0000	each	2 5	Tubscutid			Rear spring clip bar	10	Tubtive	329
	Floor board plate for side lever Dash	35 6 00	Tubsduty Tubsdayler		3837	Rear spring tie bolt	05	Tubtly	1352
	Dash brass moulding	1 50	Tubsecutos			Rear spring tie bolt nut	02 50	Tubtonic Tubtorse	1353 91
3636	Dash brass moulding screw	02	Tubsequor	1064		Rear spring hanger (narrow flange) Rear spring hanger (wide flange)	50	Tubtraca	911/2
3637	Dash moulding center screw (3/4"	0.5		1602		Rear spring leather pad	15	Tubtrack	94
3638	long)	05 20	Tubseqvox	1623 1097B	3843	Rear spring perch	60	Tubtracto	41
	Dash shield screw	02	Tubserat		3844	Rear spring perch bushing (also	05	Tubtraho	174
	Dash bracket (left)	75	Tubserite		3945	used on spring)	10	Tubtrahir	172
	Dash bracket (right)	75 05	Tubserved Tubservin		3040	itear spring peren nat			
	Dash bracket bolt (on frame) Dash bracket bolt nut	05	Tubsessa	1028 1029		Pump			
	Dash bracket top bolt	05	Tubsessle	1039	551	Pump assembly	9 00	Tubtrifid	
3646	Dash bracket lower bolt	05	Tubsessix			Pump body	4 00	Tubtrilo	
	Dash bracket top bolt washer	02 02	Tubsessor	1033 1034	435	Pump cover	2 00	Tubtrilem	
	Dash bracket lower bolt washer Dash bracket top bolt nut	03	Tubsetace Tubsessue			Pump cover gasket	10 05	Tubtriste Tubtripos	
	Dash bracket lower bolt nut	03	Tubsiccas	1036		Pump cover screw	1 00	Tubtrude	
	Dash to body bracket	15	Tubsidor	1489		Pump shaft	1 00	Tubturbin	
	Dash to body bracket bolt (on body)	05 05	Tubsidunt		454	Pump cotter pin	01	Tubtuto	
	Dash to body bracket bolt (on dash)	03	Tubsifan Tubsifer	1491 1492	451	Pump packing nut (right hand)	25	Tubtutorm	
	Oil lamp bracket—right	40	Tubsiform			Pump packing nut (left thread) Pump thrust washer (steel)	25 10	Tubuculam Tubuculo	
	Oil lamp bracket—left	40	Tubsign	1498	. 450	(Above parts comprise pump assembly.)		Labacaro	
3657	Oil lamp bracket brass screw	05	Tubsignal		E76	Pump drive gear and shaft	2 50	Tubularia	
	Oil lamp bracket screw nut	05	Tubsigned			Pump drive gear and share	1 50	Tubule	
	Oil lamp bracket screw washer Tail lamp bracket	03 25	Tubsimile Tubsimone			Pump drive gear shaft only	1 00	Tubulines	
	Tail lamp bracket bolt	05	Tubsimor		440	Pump drive gear shaft bushing		m >	
3662	Tail lamp bracket bolt nut	05	Tubsipimo	1615	450	(rear)	25	Tubulipap	
	Gas lamp bracket—right	1 00	Tubsipio	1301	453	Pump drive gear shaft bushing (front)	25	Tubuliped	
	Gas lamp bracket—left	1 00 05	Tubsipunt Tubsist	1348 1302	577	Pump inlet connection assembly	1 00	Tubumdon	
	Front seat cushion	15 00	Tubsistis	1626		Pump inlet connection pet cock	30	Tubunctis	•
	Rear seat cushion	15 00		1627		Pump inlet nut	30 30	Tubungor Tubungual	
						Pump inlet hose	10	Tubungunt	
	Springs					Pump support screw	05	Tuburb	
						Radiator fan and shaft	2 00	Tuburbain	
	Front spring (specify color)	6 00 1 25	Tubsisturn			Radiator fan only	1 00	Tuburpago Tuburpana	
	First leaf (main leaf)	1 10	Tubsold Tubsoil	354 355	497	Radiator fan rivet	. 02	1 uburbana	
	Third leaf	1 00	Tubsoiled	356		Starting Cran	k		
3804	Fourth leaf	90	Tubsolad	357	2000		1 00	Tuburbigit	519B
	Fifth leaf	75	Tubsolano	358		Starting crank only	40	Tuburbio	520
	Sixth leaf	60 40	Tubsolary Tubsoluts	359 360		Starting crank handle bolt	20	Tuburend	521
	Front spring clip	25	Tubsolve	325B	3903	Starting crank sleeve (steel tubing)	30	Tubutten	523B
3809	Front spring clip nut	05	Tubsolvin	327	3905	Starting crank ratchet pin (1%"	05	Tubvonder	527B
	Front spring tie bolt	05	Tubsonaba		3906	long)	35	Tubvonder	527B 528B
	Front spring tie bolt nut	02 50	Tubspara			Starting crank strap	30	Tubvuzeit	
	Front spring hanger (narrow flange)	50	Tubsparg Tubstrunt	246 229		Starting crank spring (brass)	05	Tubvolt	
3815	Front and rear spring hanger nut	02	Tubsume	220		(Order following parts for machines below 2	500.)		
	Front and rear spring hanger oiler	15	Tubtender	267		Starting crank only	1 00	Tuburbial	
	Front spring perch—right Front spring perch—left	1 00	Tubtenses	222		Starting crank handle bolt nut	05	Tuburimus	
3820	Front spring perch bushing (also	1 00	Tubterago	2221/2		Starting crank sleeve	50 02	Tuburran Tubvadem	
	used on spring)	20	Tubtereba	230		Starting crank collar pin	25	Tubvectab	
3821	Front spring perch nut	05	Tubterfue	242	526	Starting crank spring	10	Tubvelout	
	Front spring leather	14 00	Tubtevac	262	5 27	Starting crank ratchet pin	02	Tubven	
3825	First leaf (main leaf)	2 60	Tubterit Tubtera	333 361	528	Starting crank ratchet	35	Tubvercas	
3826	Second leaf	2 25	Tubtiendo	362	· :,	Radiator (Thermo-	Sypho	n)	
	Third leaf	2 00	Tubtilely	363		•			
	Fourth leaf	1 75 1 60	Tubtilieza	364	*3925	Radiator—Thermo—Syphon	35 0 0 50	Tubvectii Tubvecon	
	Sixth leaf	1 50	Tubtiliba Tubtilise	365 366	*3926 3007	Radiator cap gasket (fibre)	05	Tubveton	
				555	3327	Troublet Cap Sasket (Hotel			

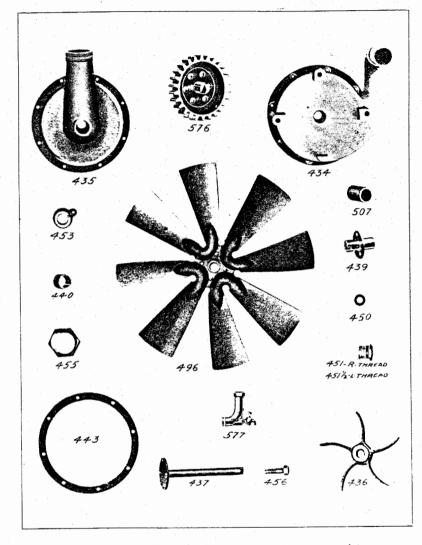


Plate 14-Parts for Pump Circulation Motor

Order	Radiator (Thermo-Sypho	n)—C	ontinued	
by these	9			Factory
Nos.	Description.	Price.	Code Word.	No.
3928	Radiator pad (leather)	05	Tubvendia	1105
3929	Radiator bolt (% x 3 %)	15	Tubvenoct	1106B
3930	Radiator bolt nut	05	Tubvenons	
3931	Radiator bolt washer	05	Tubvensao	
*3932	Radiator rod	25	Tubvensoct	
	Radiator rod washer	05	Tubversod	
	Radiator rod nut	05		1113
	Name plate	40	Tubvert	
	Name plate bolt		Tubverter	1115
	Name plate bolt nut	02	Tubvertid	1116
3938	Name plate bolt washer	02	Tubvertra	1118

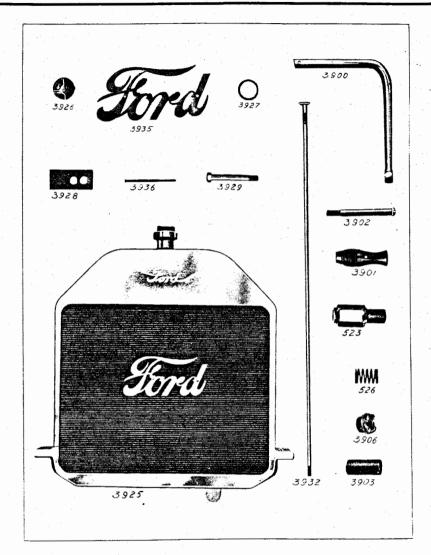
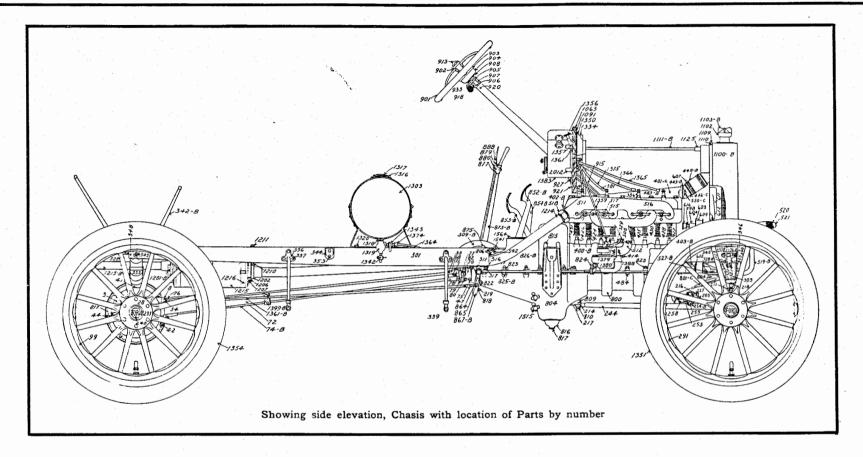


Plate 15-Radiator and Parts

Order	Radiator (Thermo-Syphon)	— C	ontinued	
by these		Price.	Code Word.	Factory No.
Nos.	Description.	rice.	Code word.	.,0.
3939	Radiator outlet connection pipe			
	(See motor plate)	50	Tubveruly	1121
3940	Radiator outlet connection cock	25	Tubvester	594
3941	Radiator support bolt (1/2" long)	05	Tubvetera	n 1128
3942	Radiator support bolt nut	03	Tubvetoyer	1129
3943	Radiator strainer	20	Tubvexity	1119
3944	Radiator outlet connection hose	30	Tubvexis	554
3945	Radiator outlet connection hose			
0340	clip	10	Tubveyix	507 B
	(*Order following parts for machines numbere	d belo	w 2500.)	



Order	Radiator (Pump Circ	culatio	on)	$_{ m Order}$			Special Tools—Cor	pecial Tools—Continued			
by these	· · · · · · · · · · · · · · · · · · ·		.	Factory		by these			Factory		
Nos.	Description.	Price.	Code Word.	No.		Nos.	Description.	Price.	Code Word. No.		
1103 Rad	diator (pump circulation) diator capdiator stay rod (State length)	35 00 . 50 25				4003	wrench	30 30 50	Tubvialyn 1928 Tubviamaxl1929 Tubviamol 1924		
•	Radiator Fan (Thermo-S	yphon					Socket wrench for cylinder head %" cap screw	50 05	Tubviapat 1925 Tubviapog 1927		
	n and pulley assembly	2 50 30	Tubviah Tubviabot	619 611		4007	Cam gear puller	1 50	Tubviebo 1939 Tubviecar 1940		
3963 Dri	ven fan pulley (brass)	1 25 40 60	Tubviacod Tubviacogi Tubviacux	618 602 609		4009	Transmission clutch drum puller Valve grinder	1 50 1 00 50	Tubviedux 1954 Tubviefra 1957 Tubviegno 1930		
3965 Far	n belt n tension spring n shaft	05 25	Tubviadox Tubviadunt	610			Valve spring lifter Valve seat reamer	3 00	Tubviekno		
3967 Far 3968 Far	n bracket	40 15 20	Tubviafule Tubviafyt	604 605 601			Muffler				
3971 Far	n shaft oiler assembly n shaft oiler body n shaft oiler body cap	10 10	Tubviagin Tubviagore Tubviahay			4026	Muffler assembly	3 50 60 30	Tubvesper 1200B Tubvienes 1202B Tubvinier 1203		
	Special Tools (See Plan	te Pag				4028 4029	Muffler shell (middle)	25 60 10	Tubvinmes 1204 Tubvoade 1205 Tubvocalt 1206		
	ton pin socket wrench	40	Tubvialuv	1926			Muffler rod only	05	Tubvolaba 1207		

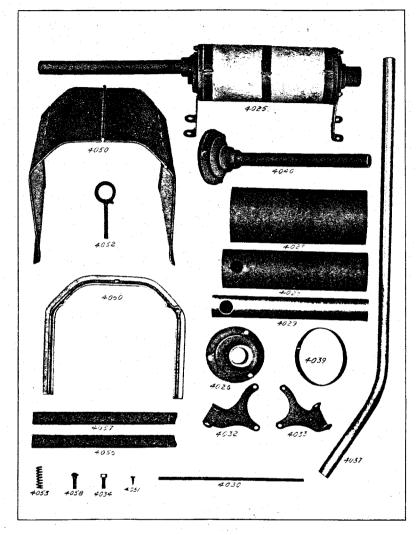


Plate 16-Hood Muffler and Parts

Order	Muffler— Contin	ued		
by these Nos.	9 Description	Price.	Code Word.	Factory No.
	Muffler bracket—exhaust	30		1217
	Muffler bracket—intake	30		1218
4034	Muffler bracket bolt	. 05	Tubworker	1210
4035	Muffler bracket bolt nut	03	Tubyaga	1211
4036	Muffler bracket bolt cotter	01	Tubyugaso	1212
4037	Long exhaust pipe	1 50	Tubygare	1214
4038	Muffler asbestos	15	Tubyhoti	1215
	Muffler asbestos bands (tin)		Tubyhauz	1216
4040	Pear muffer hand with outlet pine	75	Tubrionto	1001

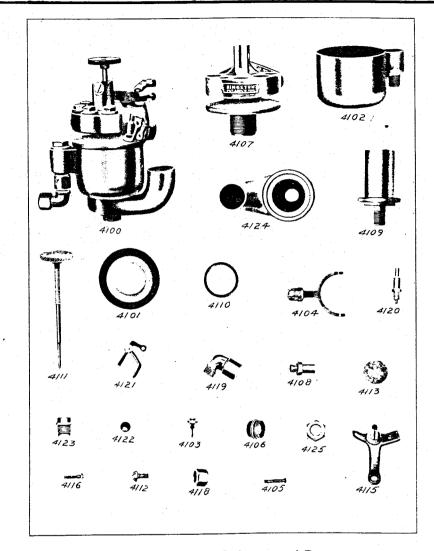


Plate 17-Kingston Carburetor and Parts

Order	Hood			
by these Nos.	Description	Price.	Code Word.	Factory No.
4050 Ho 4051 Ho 4052 Ho 4053 Ho 4054 Ho 4056 Ho 4057 Ho 4058 Ho	ood (specify color) ood handle ood clip ood clip spring ood clip washer ood-board—left ood board—right ood board bolt	40	Tubyugot Tubyugur Tubzuar Tubzuril Tubcaro Tuccendan Tuccedase Tuccedbt	1300 1314 1310 1311 1312 1339 1340 1308 1309

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

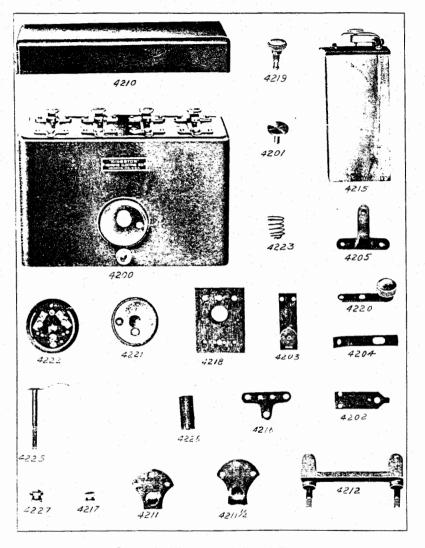


Plate 18-Kingston's Coil and Parts

Order	Hood—Continu	ed		
by these Nos.	Pescription.	Price,	Code Word.	Factory No.
	Hood support on dash	1 00 01	Tuccedemo Tucceden	1334 1350
	Carburetor (King	ston)		
4101 4102	Carburetor complete Float Float chamber Gasoline valve	9 00 80 2 00 50	Tuccedia Tuccediem Tuccedige Tuccedipt	553 2101 2102 2103

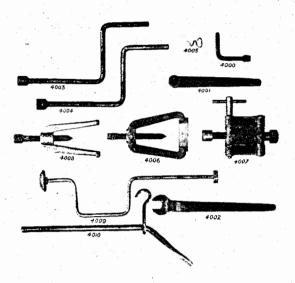
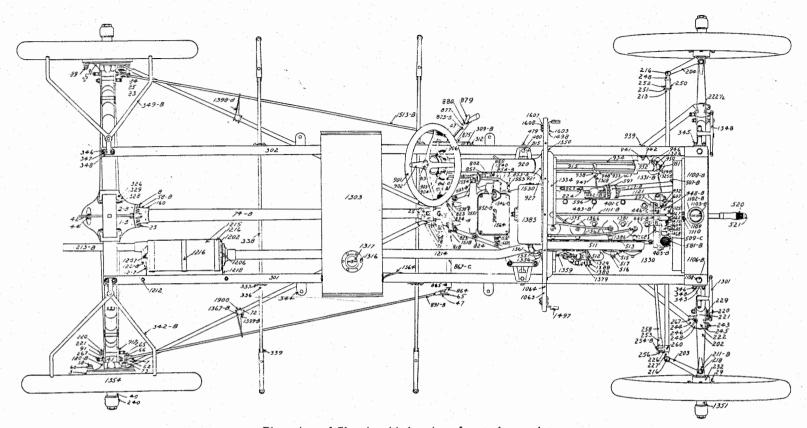


Plate 19-Special Tools for Model T

0.1	Carburetor (Kingston)-	(Con	tinued	
Order by these					Factory
Nos.	Description.	P	ice.	Code Word	No.
			30	Tuccedoel	2104
4104	Gasoline valve operating lever		30	Tuccedoei	2104
4105	Gasoline valve operating lever shaft		10	Tuccedon	2105
43.00			30	Tuccedone	2106
4106		2	00	Tuccembet	2107
4107 4108		-	30	Tuccende	2108
4109		- 1	00	Tuccendre	2109
4110	Gasket for center member	_	20	Tuccesora	2110
	Gasoline needle valve		50	Tuccesao	2111
4110	Gasoline needle valve set screw		05	Tucceser	2112
4113	Throttle gate		30	Tuccesiv	2113
4114	Throttle gate screw		05	Tuccesue	2114
4115	Throttle gate lever		30	Tucchiand	2115
4116	Throttle gate adjusting screw		05	Tucchias	2116
4117	Throttle gate set screw		05	Tucchiers	2117
4118	Gasoline intake packing nut		15	Tucchione	2118
4119	Gasoline intake elbow		25	_ucchioso	2119
	Primer assembly		40	Tucciamel	2120
4121	Primer lever only		20	Tuccida	2121
4122	Bronze ball (for air regulation)		10	Tuccidart	2122
4123	Retainer cap for balls		40	Tuccidave	2123
4124	Constant air supply connection	1	00	Tuccideal	2124
4125	Constant air supply connection				
	lock nut		20	Tuccided	2125
4126	Carburetor adjusting rod head		15	Tuccidege	1356
4127	Carburetor adjusting rod bracket		30	Tuccigate	1357
4128	Carburetor adjusting rod head pin		05	Tuccilar	1358
4129	Carburetor adjusting rod		25	Tuccilet	1359
4130	Carburetor adjusting rod fork cot-				
	ter		01	Tucciliam	1360
4131	Carburetor adjusting bracket screw		05	Tuccilote	1361
4132	Carburetor flange bolt		05	Tuccinate	1388
4133	Carburetor flange bolt nut		03	Tuccinet	1379
4124	Carburetor flange gasket		10	Tuccinda	1380
4104	Carourceor mange gassier				

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.



Plan view of Chassis with location of parts by number

Order	Coil (Kingsto	n)				Order	, Coil	l (Kingston)—C	ontini	ued	
by these	, ,	•				by thes					Factory
Nos.	Description.	Price.	Code Word.			Nos.		Description.	Price.	Code Word.	No.
4200 4201	Coil complete						each	minal connections, ng post with spring .	10 20	Tuccosita Tuccosorm	
4203	vibrator spring with platinum point Vibrator hammer	90 75 10	Tuccingos Tuccinico Tuccinide			4226 4227	7 Terminal bindi: 7 Terminal bindi:	ng post porcelain ng post thumb nut .	15 05 05	Tuccosos Tuccotrin Tuccour	
4205	Adjusting screw lock spring Adjusting screw bracket Coil box complete	10 40 5 00	Tucciniel Tuccinily Tuccinon			4228	B Terminal bindi	ng post hexagon nut.	03	1 uccour	
	Coil box cover	80	Tuccinore					Wiring			
4211 4211 4212	Coil box cover fastener—lower Coil box cover fastener—upper Coil bracket Coil bracket stud nut	15 15 50 05	Tuccivus Tuccives Tuccivut Tucclades			4351 4352	1 Spark plug wir 2 Spark plug wir	e (Cyl. No. 1) e (Cyl. No. 2) e (Cyl. No. 3)	45 40 35 30	Tuccurer Tuccubine Tuccubius Tuccubuer	1375
4215 4216 4217	Coil units, each	6 00 25 05 15	Tucclamea Tucclamo Tuccalvio			4354 4355	4 Spark plug wir 5 Commutator w	e (Cyl. No. 4) e terminal ires with loom ire with terminal,	05 1 00	Tucculeny Tuccumbat	1381
4219	Vibrator unit cover (fibre) Switch plug Switch lever	25 25	Tuccollad Tuccullo Tuccomba				each	ire terminal (coil	10	Tuccumal	
4221 4222	Switch lever Switch base assembly Hexagon nuts on bottom of coil.	25 75	Tuccombe Tuccomed			4358	end) B Commutator w	ire loom only	03 60 05	Tuccumbir Tuccursen Tuccursor	1378
-320	each	05	Tuccosta					to coil	35	Tuccurux	

ALWAYS GIVE MACHINE NUMBER WHEN ORDERING REPAIRS.

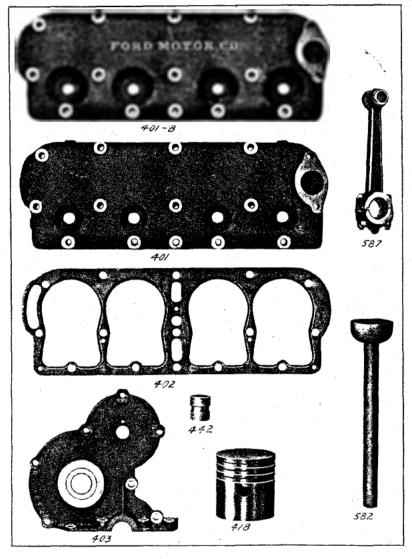
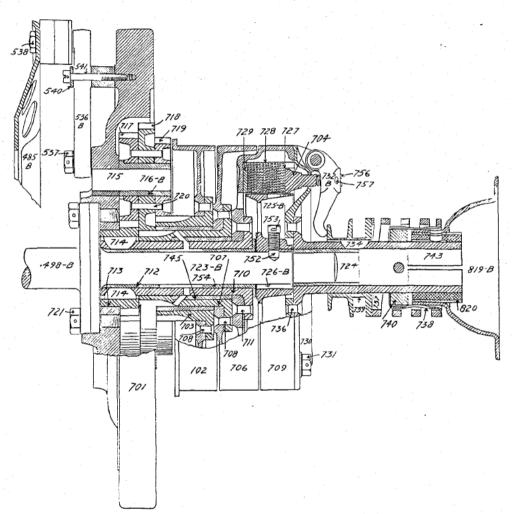


Plate 20 -Motor Parts. (See list on page 10)

Order	Order Roadster Boo						
by these Nos.	e Description.	P	rice.				
	Front seat cushion (2)						
	Rumble seat with cushion		00				
	Rumble seat lock	4	90				
	Rear floor rubber matting		50				



Showing location by factory numbers of Transmission Parts

Cotter Pins

3/32 x ¾" Cotter pins 3/32 x ½" Cotter pins	1/8 x %" Cotter pins 1/16 x %" Cotter pins 1/16 x %" Cotter pins
1/8 x 1" Cotter pins	
Price, each	
Price, per doz	
Price, per gross	. ,

How to Run the Model "T" Ford

When Your Car is Shipped, the tires are inflated; the emergency brake is set; the gasoline tank and the radiator drained, and the valve in pipe leading from gasoline tank to carburetor is closed; the switch on the coil box open, and all magneto and ignition connections made. A little oil is left in the engine base. The wheels are carefully blocked to prevent the ear getting away and thereby sustaining injury in transit.

Remove the blocks carefully and draw out, or drive down, all nails, so as to avoid injury to the tires. Release the emergency brake and take the automobile out of the freight car, being careful not to mar or scratch the body.

WATER.

On Receiving Your Car, and before starting the motor, Fill the Water Tank, which is incorporated in the radiator, with clean, fresh water, preferably straining it through muslin or other similar material to prevent foreign matter getting into the small tubes.

It is important that the car should not even be run out of the freight car under its own power unless the water tank is full. The tank may appear to be full before all parts of the circulation system have been supplied. It will, therefore, be necessary to turn the motor over a few times by hand so as to force water into the cylinder jackets. This will lower it in the radiator. Pour in the water until you are sure both radiator and jacket have been filled and the water runs out of the overflow pipe. During the first few hours that the engine is running, it is a good plan to examine the radiator frequently and see that it is full and the water circulating properly. Soft rain water, when it is to be had in a clean state. is superior to water which may contain alkalies and other salts which are injurious, or which tend to deposit sediment and clog up the radiator.

VIGILANCE AND-OIL.

The first rule in motoring is to see that every part has, at all times, plenty of oil—then more oil. The second is to see that every adjustment is made immediately the necessity of such adjustment is discovered; and the third rule is exercise "common sense"—that's what they drive \$500 with.

The liability of trouble with ring of pleasure trips through justments promptly, increases times they are neglected.

consequent mariest to make adduce the square of the

Permitting any part to run for even a brief perion without proper lubrication will certainly result in serious injury to the machine and expense to the

owner; and the result of reckless driving, while they may not show up immediately, will none the less certainly appear later, for all that.

DO NOT USE GRAPHITE AS A LUBRICANT, AS IT WILL INTERFERE WITH THE PROPER OPERATION OF THE MAGNETO.

If the history of all the joyously anticipated pleasure trips that have ended disastrously could be written, it would be shown that in 90 per cent of the cases the humiliation and disappointment might have been avoided by making a certain repair and adjustment, the necessity of which was known before starting, instead of trusting to luck and a crippled part.

Use a High-Grade Light Gas Engine Oil—Poor oil or oil too heavy will smoke, clog up valves, leave a deposit on pistons.

GO IT EASY.

In the flush of enthusiasm, just after receiving your car, remember a new machine should have better care until she "finds herself" than she will need later, when the parts have become better adjusted to each other, limbered up and more thoroughly lubricated by long running.

You have more speed at your command than you can safely use on the average roads, or even on the best roads save under exceptional conditions, and a great deal more than you ought to attempt to use until you have become thoroughly familiar with your machine, and the manipulation of brakes and levers has become practically automatic.

Your Ford car will climb any climbable grade. Do not, in your anxiety to prove it to every one, climb everything in sight. A good rule is, if you crave the fame, climb the steepest grade in your neighborhood once, and let others take your word for it, or the word of those who witnessed the performance, for the deed thereafter.

Extraordinary conditions must be met when they present themselves—they should not be made a part of the everyday routine.

GASOLINE.

The Gasoline Tank is Under the Seat.—See that it is supplied with gasoline. Always strain through chamois skin to prevent water and other foreign matter getting into the carburetor. When filling the gasoline tank, extinguish all lamps; throw away your cigar, and be sure that there are no naked flames within several feet, as the vapor is extremely volatile

and travels rapidly. Always be careful about lighting matches near where gasoline has been spilled, as the atmosphere within a radins of several feet is permeated with highly explosive vapor.

Unless it has been tampered with, the carburetor adjustment is right, having been set by the head tester, so do not meddle with it until you are certain it needs adjusting. To make adjustment, manipulate button on dash—when leaving factory, adjustment is O. K., and arrow points up. To give more air, turn to left; for less air, turn to right.

OIL

No mechanical device will operate very long without ample lubrication, neither will the Model "T" cars. Before your car is shipped the oil is drained out of the engine crank case and the oil reservoir. Before starting, the transmission cover should be removed and two quarts of high-grade engine oil should be poured into the transmission and a half gallon emptied into the engine crank case through the breather pipe.

Thereafter all oil replenishments are made through

breather pipe.

There are two drain cocks in the flywheel casing which acts as the oil reservoir. The oil level should be between these two cocks. If it runs out of the upper, there is too much oil, and it should be allowed to drain out to that level. If on opening the lower drain cock the oil does not run out, being at a lower level, a new supply is needed.

Do not use graphite for lubricating engine; its use prohibits the proper operation of the magneto, tend-

ing to short circuit same.

Use only a high-grade light gas engine cil-cheap

oils are too costly in the end.

The axles are well supplied with lubrication when the car leaves the factory, but it is well to examine frequently. For differential use any high-grade semifluid lubricant. It is false economy to use a poor or cheap lubricant at any time.

WIRING.

See that all wires leading from the magneto and the commutator to coils, plugs and "grounds" are intact.

CONTROL.

Carefully study out all details in regard to control and familiarize yourself thoroughly with the functions of all foot pedals and the hand lever. The foot pedal at the right marked "B" operates the brake on the transmission; the foot pedal on the left marked "C" is the control lever acting on the clutch. The pedal in the center operates the reverse.

SLOW SPEED

The hand lever when thrown forward, engages high speed; when pulled back, operates the emergency hrake.

Hand lever is in neutral when almost vertical and clutch is in a released condition. Throwing control lever forward engages the clutch in high speed; a light pressure on foot pedal "C" throws in neutral; a full pressure on this pedal throws into a slow; a partial, gradual release of the pedal again engages high speed. A pressure on pedal "B" operates the transmission brake.

two pedal two lever control while all cars are now equipped with three pedals and one lever. The adjustment of this later type is somewhat simpler than that of the two pedal control. Cars now equipped with the two pedal control can be changed over to the three pedal by ordering and installing new parts.

In ordering these parts it is only necessary to call for "Necessary parts to change control on car No......from two pedal to three pedal type." For such orders we will charge cost price i.e. \$15.00 and the return of the old parts transportation prepaid.

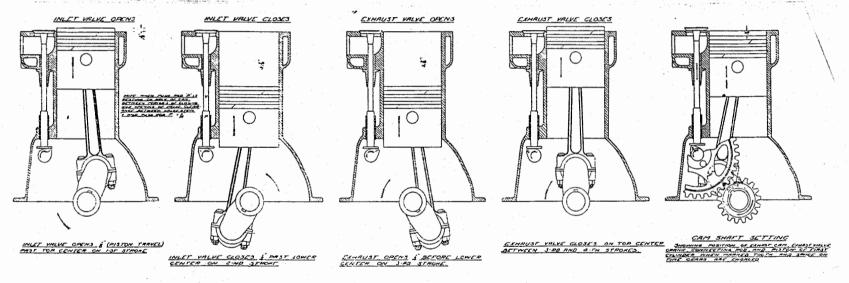
HIGH SPEED ADJUSTMENT

There are two adjustments to the high speed clutch.—If the clutch slips under load the reason may be that threaded Pedal connection is too short and

sion in natural position. Transmission can be raised in this manner.

Pull back rear axle as explained under heading, Remove Rear Axle, Page 27. Then remove bolts holding engine and transmission to crank case, raise engine and insert 1" wood blocks between rear end of cylinder and top of crank case to remove transmission band.

If the entire transmission is to be removed the bands of course come with it but when it is desired to remove bands only, remove pedals, then slip bands forward sliding the one nearest the flywheel over the first of the triple gears. To do this requires the spreading of the band by pulling apart at the ears and is more easily accomplished if the three sets of triple gears are so placed that one set is about 10 degrees to the right of center at top. Then turn the band so



VALVE SETTING DIAGRAM

ADJUST LOW, REVERSE AND BRAKE BANDS

Adjustments to low, reverse and brake bands are made from top after removing transmission casing cover. No. 1 nearest the seat is brake; No. 2 is slow speed; No. 3 is reverse. Turn adjustment nut; turning to the right tightens, to the left loosens the band. The fiber segments can be replaced by ordering No. 3416 and riveting in place.

Care should be taken to see that the bands are a true circle, so that they do not drag when disengaged, and that they take hold all around the drum when applied; high points cause noise when starting.

THE TWO PEDAL TYPE OF CONTROL.

The first Model "T" cars were equipped with a

by lengthening same one or two turns the difficulty is obviated. The clutch can also be tightened by tightening adjusting nut on pedal connection. A 3rd adjustment is provided by means of adjusting screws in the clutch fingers—tightening each of these 3 screws an equal amount tightens the clutch. Also be careful when making adjustments that you do not so set the control arm as to render it impossible to throw lever full forward it being held back by the quadrant. If you have accomplished this the simplest way out is to file away the quadrant making the hole perhaps 1/4" longer. After lever is thrown forward there should be a "streak of light" between lever and quadrant.

To install new clutch spring or make any repairs or adjustments that can not be made with transmis-

that ears are down and pull out. To replace, reverse this action.

TO REMOVE CRANK SHAFT.

The only time the crank shaft should require any attention under ordinary circumstances is at the time of the annual overhauling, and then only so as to make the "clean-up' complete.

With the motor out and resting on its head, remove six cotter-pinned bearing nuts; remove eight cotter-pinned connecting rod bolts; take out four lower halves of connecting rods, and three halves of bearings; remove four bolts connecting crank shaft flange to flywheel; lift off flywheel, now pull out shaft.

Caution. The flywheel contains a part of the magneto; always set down the flywheel on the side, never on the face, otherwise you may injure the magneto.

Place a wire nail over each magnet to act as a keeper.

TO ADJUST CONNECTING ROD AND CRANK SHAFT BEARINGS

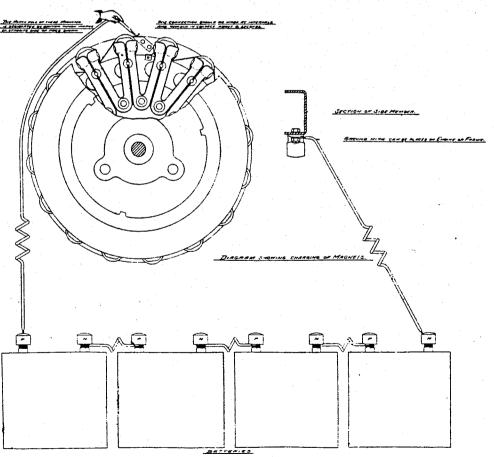
If at the time of the general overhauling it is desired to adjust connecting rod and crank shaft bearings, proceed as follows: With motor resting on head, remove cotter bolts, so separating two halves of bearing. If connecting rod bearing is loose, file off inside of cap, otherwise, simply tighten. If crank shaft bearing is loose, remove one or two paper liners; if not then tight enough, file off inside of cap.

Sprung Crank Shaft. Owners occasionally send in crank shafts that have been damaged in collisions with trees, lamp posts, hydrants, or other objects, expecting us to replace or make some allowance on

them. We wish to impress upon all such that a crank shaft, if sprung even the slightest, is utterly useless except as scrap metal. No method has ever been devised for straightening one to the degree of accuracy necessary. Barring collisions, Ford shafts should never break. However, we always like to inspect them, and if they show defect in work or material, will be replaced.

If the crank has been cut by letting the bearings run dry and hot, you can, provided they are not cut deeply, create a new bearing surface by carefully filing the bearings straight and round. A very fine file must be used, as the slightest scratch will serve to cut the babbitt and it will soon run hot again. If possible, get a piece of crocus cloth (never use emery), attach a piece of heavy twine or belt lacing to each end of the crocus cloth, and carefully lap the bearing.

If the conecting rod bearing is found too large for the shaft, in cases such as the above, file sufficient off the cap to make it fit the crank shaft. Connect-



RECHARGING MAGNETS.

ing rod bearings should be tight fit and yet not have the slightest play—it should be sufficient to almost hold its own weight, just turning slowly on the shaft when released.

VALVES.

Valves should be ground at regular intervals—about every three months— whether they leak or not; the grinding of the seats will cause them to seat accurately and prevent uneven wear of the guides and consequent leaks past the valve stems—a condition which results in the most puzzling symptoms in the carburetor and unevenness in the running of the motor.

To Grind a Valve Seat. This operation requires care and skill. Place on the valve a small quantity of very fine ground glass, or if this is not obtainable, very fine emery powder. Use sufficient oil to make a very thin paste, being careful not to allow the paste to run into the cylinder. The valve is then rotated back and forth, being firmly pressed down against its seat at the same time.

Occasionally lift the valve, change its position a part of a turn and drop down; then rotate as before. This prevents carrying a particle of emery or grit round and cutting a groove in the seat.

Noisy half-time gears are due either to worn teeth, or, more likely, to worn cam shaft and crank shaft bearings, which permit the gears to get out of true mesh. Examine gears, and if excessive wear is not apparent, try shafts for looseness and play. If the latter, replace bushings.

inspection of Cams. If the Motor seems to produce less power than formerly, and you have ascertained that it is not due to carburetor adjustments, spark coils, leaking or sticking valves, or carbon deposit in cylinders, it would be well to inspect the cams or pushers and see that they are not worn so as to reduce the lift of the valves. By raising the valves, it will be possible to remove the cam shaft without disconnecting the cylinder or removing crank shaft.

Carbon Deposit. This is one of the most fruitful sources of trouble in a gas engine. If the cylinders get too much oil, or you use an inferior or a heavy oil, a portion of it will work up past the pistons; the intense heat will consume or evaporate the oil, leaving a deposit of carbon. This may be augmented by too rich a mixture, which serves to deposit lamp black or carbon in a film on the inside and top of the compression chamber and on the heads of the pistons. The films thus formed will in time commence to scale and, the projections becoming fused by the heat of explosions, will serve to prematurely ignite the charge.

The symptoms are back firing and knocking in the cylinders—as if the spark were too far advanced. An almost infallible symptom of excessive carbon deposit in the cylinders is the motor showing plenty of power at high car speeds, but deficient in hill

Ford Motor Company

climbing on high gear. At slow engine Speeds, the incandescent carbon projections serve to pre-ignite the charge, thereby reducing the power of the motor. The cure is to take off the cylinder head and scrape off the carbon deposit from the top of piston and inside of cylinder head.

Carbon will also form on the porcelain portion of the spark plugs, thereby furnishing a circuit which the high tension current may travel over, rather than jump between the sparking points of the plug. Usually, only a part of the current will pass by way of the carbon film, still leaving a weak spark at the points, which in open air, when testing plugs may seem strong enough. This causes intermittent firing. The symptoms are similar to a poor contact commutator.

This condition is difficult to detect, for the reason that when the plug is subjected to the usual test of removing from the cylinder and closing the electrical circuit, the spark is seen to jump free and "fat" between the points. This, because of the electrical energy which is sufficient to jump between two points ½ inch apart in the open air, will jump less than 1-16 of an inch in the chamber under 60 pounds compression.

Overheating. The cause of overheating in motors may be summed up as follows: Poor oil, insufficient oil, bad mixture, slow spark, obstructed muffler, broken pump, flat or obstructed water pipe, low water, and valves out of time.

REMOVE FRONT AXLE.

Jack up front end of car so wheels are suspended, disconnect steering gear, disconnect radius rods at ball joint and remove two cotter-pinned bolts from shackle on each side, so detaching front spring. To replace, reverse.

Remove front wheels same as rear. (See paragraph "Remove rear axle.")

To disconnect radius rods from axle, remove cotter-pinned nuts. To remove entirely, take out two bolts and ball joint and remove lower half of cap.

Once every thirty days, the axles should be carefully gone over to see that every moving part, such as the bushings in spring connections, shackles, steering knuckles and hub bearings and every other moving part, however small or apparently unimportant, are thoroughly lubricated and that all nuts and connections are secure with cotter pins in place.

If this is done, replacement of hearings should be senecesary during the first year or two of the car's service. Wherever balls are used, there is a liability of one splitting, so it is well to watch carefully the balls and races in the front wheels, and the slightest wear or defect in either, should be followed by immediate replacement.

Ball bearings in front wheels should be adjusted so there is not the slightest play, and yet, so that the wheel will turn freely. After tightening the lock nut, turn the wheel as the last operation may have tightened the cones too much.

The spring clips, which attach the front spring to the frame, should be inspected frequently to see that the nuts are not working loose as this will permit the axle to slip sidewise, interfering with the steering and may result in an accident when turning suddenly.

Bent Steering Knuckle. Should a steering knuckle become bent, it is necessary to have a large gauge or lig to straighten it accurately. The eye is not sufficient to determine whether it is correct; and excessive wear of the front tire will be the result of inaccuracy in this place. In all cases, it would be better to send to us for correction.

Angle of the Front Wheels. The front wheels should be set up at an angle of about 3 degrees, that is to say, the distance, center to center, between the tops of the front wheels should be about 1-1/2" greater than that between the bottoms. This is to give perfect steering qualities and to save wear on tires when turning the corners. The wheels should not, however, "toe in" at the front, lines drawn along the outsides of the wheels when the latter are in a straight-forward position, should be parallel.

REMOVE REAR AXLE.

Jack up car with heavy bar on two horses so that wheels hang free. Take out four cotter-pinned castle nutted bolts connecting two halves of universal ball collar. Disconnect brake rods. Remove rear wheels by unscrewing hab cap using special hub wrench furnished with car. Drive out pin, pull out key with pliers, pull off wheel.

To dis-assmemble rear axle and differential, disconnect drive shaft tube by removing nuts on front ends of radius rods; draw away the tube; remove bolts which hold two halves of differential housing together, and draw the housing apart.

If necessary, and it is not under ordinary circumstances, to dis-assemble differential gear, a very slight mechanical knowledge will permit one to immediately discern how to do it once it is exposed to view. Care must be exercised to get every pin, bolt and key back in its exact position when re-assembling

To Remove Bevel Driving Pinion. In order to make a "fool proof" and absolutely reliable job, the drive pinion is keyed onto the shaft and the end of the shaft riveted over. Inasmuch as the average machine shop will not have facilities for accurately replacing pinion and making sure that it is in perfect alignment, it is advisable to replace the entire shaft and pinion when the latter becomes too much worn for safe usage. This is best also, because the shaft will likely have become worn at its bearings. If however, it is desired to replace the pinion only, it may be removed from the shaft by cutting away the edges where riveted over the driving out the shaft.

In replacing, rivet over the end of the shaft as well as possible and be such that gear is on

perfectly straight, as otherwise, it is sure to cause trouble and perhaps incura larger bill for new gears than would pay for the complete shaft and gear in the first place.

Noise in the axle driving gears usually indicates wear either in the gears; in the thrust washers, or the bearings. Inspection should be carefully made to ascertain the cause as soon as an unusual sound is heard.

To Remove Master Bevel Driving Gear. Cut off rivets holding gear to flange on differential case with cold chisel, being careful not to rupture the flange.

The master gear will wear longer than the pinion, ordinarily, although there are exceptions to this rule. When the gear teeth begin to "pit," it is a good plan to renew the gear, as the pitting, stows that the case hardened shell has worn through, exposing the soft metal.

To Remove Babbitt Bushing from drive shaft tube. If properly lubricated at all times, these bearings snould not require replacement more than once in two years. However, should the bearings run dry and cut sufficiently to allow of play, it would be economy to replace them. Take % inch or % inch round steel bar, about 4 feet long—or a few inches long—than tube—insert from opposite end of tube and drive bushing out. A wooden mallet is better than a hammer for this purpose.

To insert New Bushing. Rest one and of the tube on a solid wood block and drive the bushing in, using a wooden block; also to cushion the blow so as not to mar the bushing. Of course, if a press is available, the bushing can be more easily forced into place.

The shaft will be a tight fit in the new bushing and it is proper that it should fit as tightly as it can be pushed in by hand.

When in place, it may be found that the shaft (unless also a new one), will have we'rn slightly at the bearing section, and so it will be a loose fit even though the larger part of the shaft goes in tight. If excessively tight when in place, it will be liable to run hot. This tightness may have caused bushing when forced in, to slightly compress. If necessary to relieve bearing, scrape the babbitt bushing carefully, or better still, use a one-inch hand reamer, being very careful not to make the hole so large as to allow the slightest play.

To Disconnect Universal Joint From Drive Shaft. Remove two plugs from top and bottom of ball casting. Revolve shaft until pin comes opposite hole; drive out pin and drive universal point away.

Wear in the universal joint may be taken up by disconnecting the two halves, cutting off the rivets with a cold chisel and carefully filing or turning down the faces so as to allow them to come together. The hole will not then be perfectly round and should be carefully scraped or reamed to fit. Excessive wear

in the steel parts calls for replacement of these parts.

If rear axle or wheel is sprung by skidding against a curb or other accident, it is false economy to drive it. Tires, gears, and all other parts will suffer and the bill for repairs will grow daily. If axle shaft is bent, it is better to get a new one than try to straighten the old one.

Every Ford owner, as well as every repair man, should have a wheel puller, similar to No. 4007. A tire can be removed easily and more carefully repaired and replaced by removing the wheel, and there are many occasions when it is necessary to remove the wheel. A good puller is cheap to buy, or can be easily made. Some make a threaded cap to screw over hub cap threads. As the threads on Model "T" are very fine, this is not the best method, as it sometimes strips the threads, spoiling the hub. A puller like No. 4007, grasps the enlarged end of the hub and will sustain more force without danger of injury to hub or thread.

Coil Adjustment. Screw vibrator adjustment tight until it stops buzzing; then unscrew just far enough to get a good spark. Do this while engine is running—you can then easily "feel" the explosion.

To ascertain, which, if any, of the four plugs are fouled with oil, short circuited with carbon, or inoperative from some other cause, open the throttle two or three notches to speed up the motor; now hold your two fingers on two outside vibrators, so that they cannot buzz. The evenness of the exhaust will show that the other two are working correctly and that the trouble is not there; or, procontra, an uneven exhaust will indicate that it is between the two that are free. If the two cylinders fire evenly, change the fingers to the two inside vibrators, and again listen to the exhaust. Having ascertained in which pair the trouble is, hold down three fingers

at a time until you find the one in which the motor does not fire. This will indicate in which and they number in rotation 1-2-3-4. No. 4 coil unit is the one next steering post and they number 2-3-4 to the left.

Before deciding that your coil is the cause of the trouble, inspect every other possible source of trouble. In ninety-nine cases out of a hundred, you will locate it elsewhere. The first symptom of a broken coil is the buzzing of the vibrator with no spark at the plug. A short circuit in a secondary wire will produce the same effect, so be sure it is not a short circuit before blaming it on to the coil. A good way to test is to remove the wire from the coil and ground the spark plug end on engine. Hold other end of wire near terminal and look for spark. If sparks, it's in the plug. If not then located, try changing position of units in coil box. If No. 1 for instance, works O. K. in No. 3 position, then winding is O. K. but connections are at fault. Once certain that the trouble is in the coil and that it cannot be remedied by a simple adjustment of the vibrator, a better plan is to send coil to the maker.

Never meddle with the coil or its parts, except to make an inspection every week or so to see that all nuts are tight and everything in place, so that no mysterious short circuits will occur from this cause. In looking for a short circuit, it should be remembered that the secondary current is a state, or alternating, current and will "creep" on any liquid,—water, or oil mixed with dirt. The current creeping on the oil will form carbon on the outside of the insulation of the wires and will finally form a short circuit that will cause a lot of trouble and be difficult to locate.

Platinum Points will burn away if adjusted too tight. After adjusting vibrators, they will are for a short time until both points fit each other.

One symptom of a "leak" in the condenser is a very "fat" bluish spark at the vibrator points. To

make sure that this is the cause of the trouble, put a spark gap of about one thirty-second of an inch between the secondary wire and the plug. If the condenser leaks the spark will be irregular at the gap.

Plugs. Sparking plugs are so well made nowadays that they give very little trouble. Every motorist should carry half a dozen extra porcelains to fit his plugs and these can be readily replaced in case of the porcelain cracking from overheating. Some drivers have a great deal of plug trouble, while others using the same cars and the same plugs, claim they "never see a plug." It is unnecessary to tighten the thumb screw on top of the plug with pliers,—in fact this should never be done as you are liable to turn the core and thereby open or close the spark gap more than is desirable. Tighten the nut with the fingers just sufficiently so it will not come off and get lost.

In case of a foul plug on the road, when you do not want to spend the time to clean or change it, a good expedient is to create a spark gap by disconnecting the wire and, with a string or shred of waste, tie it to the plug so the brass terminal will be about 1-16 or 1-32 inch from the plug core or nuts will generally suffice to remedy the trouble, temporarily at least.

A "miss" in a motor just after starting cold, will usually disappear after a minute or two as the motor warms up. Sometimes, only after a high speed clutch has been engaged, usually a "miss" can be remedied by "slowing" the spark—putting lever as far forward as it will go. This gives a long hot spark at the points and serves to burn away oil or other foreign matter lodged there. A drop of water—precipitated by quickly cooling a hot motor—between plug points; a drop of oil or particle of carbon can frequently be dislodged by disengaging the clutch and racing the engine a few seconds.