TM-10-1512 CHANGE NO. 3 AUGUST 1, 1943

## PARTS LIST

FOR

### WILLYS TRUCK

MODEL MB
4 TON 4 x 4

**Built For** 

U. S. GOVERNMENT

\* \* \*

U. S. A. Reg. Numbers 20298626 to 20364862 Inc. 20443317 to 20458966 Inc. 20467064 to 20512063 Inc. 20561624 to 20570435 Inc. 20604517 to 20660140 Inc.

Contract Number W-303-ORD-2529 W-303-ORD-5792

\* \* \*

WILLYS-OVERLAND MOTORS, INC.

TOLEDO, OHIO

U.S.A.

COPYRIGHT 1943

TM-10-1512

CHANGE NO. 3

**AUGUST 1, 1943** 

#### TM-10-1512

#### WAR DEPARTMENT

Washington, March 3, 1942

TM-10-1512, Parts and Price List, Truck 1/4-Ton, 4 x 4 Willys (Model MB) published by the Willys-Overland Motors, Inc., is furnished for the information and guidance of all concerned.

(AG 062.11 (4/26/41) PC (C), June 10, 1941)

By order of the Secretary of War:

G. C. MARSHALL, Chief of Staff.

Official:

E. S. ADAMS,

Major General,

The Adjutant General.

# TM-10-1512 CHANGE NO. 3 AUGUST 1, 1943 INDEX GROUP PAGE

### PARTS LIST

FOR

### WILLYS TRUCKS

MODEL MB 4 TON 4 x 4

Built For U. S. GOVERNMENT

Parts are designated in this book under both Willys-Overland and Ford Part Numbers, since these are interchangeable.

U.S.A. Registration Numbers

WILLYS Model MB

Contract W-303-ORD-2529 Contract W-303-ORD-5792

20298626 to 20364862 Inc. 20443317 to 20458966 Inc. 20467064 to 20512063 Inc. 20561624 to 20570435 Inc.

20604517 to 20660140 Inc.

FORD Model GPW

Contract W-374-ORD-2862

20364863 to 20443316 Inc. TM-10-1348

This parts list covers all previous contracts on the Model "MB" ¼-Ton 4x4 Truck and supersedes TM-10-1512 Dated April 1, 1943.

# WILLYS-OVERLAND MOTORS, INC.

TOLEDO, OHIO, U. S. A.

TM-10-1512 CHANGE NO. 3 AUGUST 1, 1943

Copyright 1943

Printed in U.S.A.

Engine	01	13
Clutch	02	23
Fuel	03	25
Exhaust	04	33
Cooling	05	33
Electrical	06	34
Transmission	07	51
Transfer Case	08	53
Propeller Shaft	09	58
Front Axle	10	58
Rear Axle	11	63
Brakes	12	66
Wheels	13	72
Steering	14	72
Frame	15	<b>75</b>
Springs	16	76
Hood'- Fenders	17	<b>79</b>
Body	18	81
Bumper and Guards	21	87
Miscellaneous	22	87
Standard Parts	23	88
Tools	23	92
Bearing Chart		95
Discount Sheet, Numerical and Price List		96 97

#### Suggestions for Ordering and Use of Parts List

If the following instructions are adhered to in ordering parts, it will greatly facilitate the handling of orders and aid in rendering prompt and efficient service.

Much time will be saved by referring to index BEFORE ordering.

Observe notations made throughout the book for convenience in ordering.

All screws have hexagon heads unless otherwise specified.

When ordering parts for an individual truck, give model number, truck registration number chassis serial number and engine serial number.

Parts must be ordered by part number and description in full as specified herein. State specifically whether left or right, front or rear, etc.

When ordering transmission gears, oil pump gears, timing sprockets, speedometer and differential gears, specify number of teeth. When differential drive gear sets are ordered, specify number of teeth in both ring gear and pinion.

Never order sets except when listed in this manner.

State definite shipping instructions-Express, Freight, Parcel Post or Air Mail.

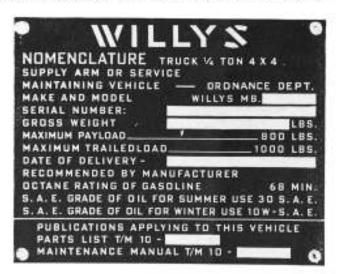
All Parcel Post insurance charges are included in our invoice. We insure without instructions and at buyer's expense any shipment by Parcel Post valued at \$25.00 or over. Parcel Post shipments of less value, and on which insurance is not required, are at purchaser's risk.

All claims for shortages or errors in packing must be made within ten (10) days from receipt of shipment, and must be accompanied by the original packing slip with proper notation of damage or shortage signed by the transportation company at destination.

#### SERIAL NUMBERS

CHASSIS. The vehicle serial number prefixed by the letters "MB" may be found located inside of the frame channel at left front end.

NAME. The nomenclature plate is located on the instrument panel.



ENGINE. The motor serial number prefixed by the letters "MB" may be found on front upper corner of right side of cylinder block.

GOVERNMENT REGISTRATION. The Government serial number is stenciled on the body.

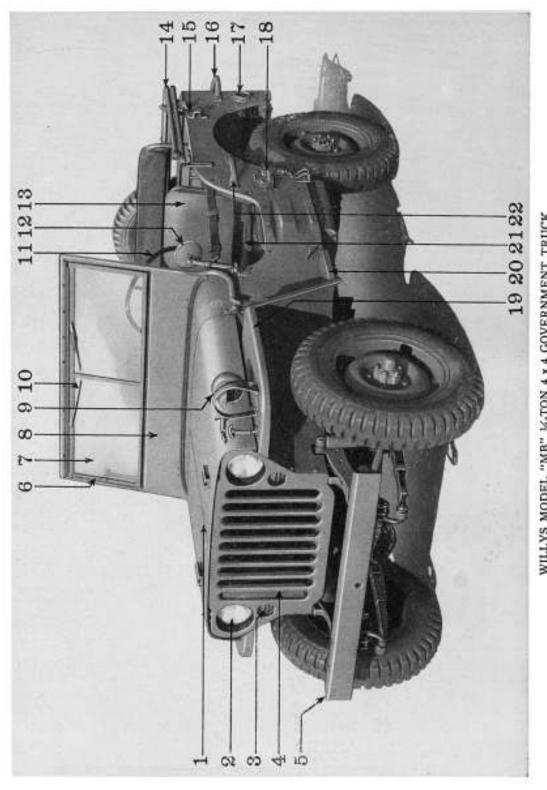
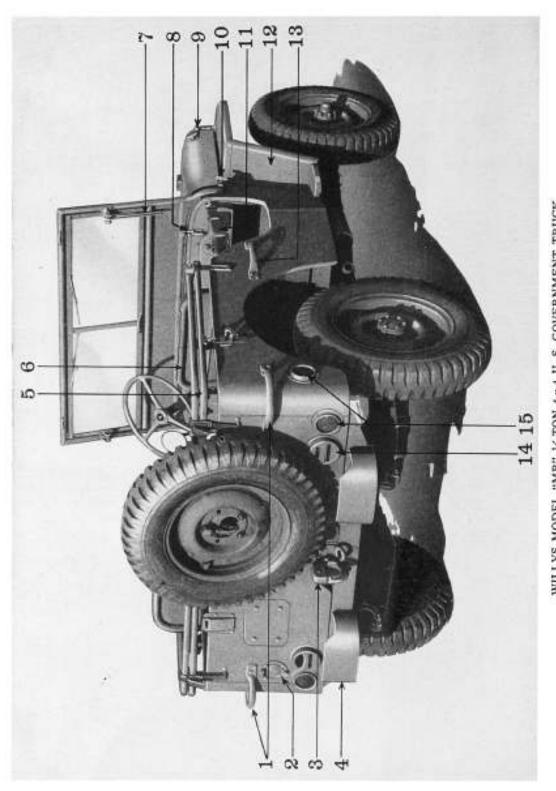


			FIG. 1—TRUCK COI	MPLET	E (Left	Side)	IRUCK
Ne.	Group	Part No.		Irem No.	Group Group	Part No.	Name
-19	1704		Hood Assembly — Right (No. 0007— 12 2201 A-2834 Rear View Mirror	=22	750	A-6858 A-2934	Steering Wheel Assembly Rear View Mirror Assembly
*	0807		Mackout Bendlamp-Right (No. 0507-	25.	2310	A-2007	Front Seat Complete—Driver's Side Top Bow Assembly Complete
44	2103		Radiator Guard Assembly Complete Front Former Bar	122	1807	A-2389	Sody Outside Handle—Rear Corner Bader Deflered Assemblic
101-	1801		Windshield Assembly Complete Windshield Glass	99	1807	A-4130	Are Surp Assembly From Englander and Solvahor Assembly
10 OF	1801		Windshield Panel Outer Stackout Driving Lamp Assembly	នដ	1801	A-2008 A-2086	Cowi Side Panel—Left Front Seat Cushion Complete
ļ	1,000	-	William State of the William of Autor which William at the control of the			-	2



WILLYS MODEL "MB" 34-TON 4 x 4 U. S. GOVERNMENT TRUCK
Part No. Name Gov't No. Group Part No. Name
A-2299 Body Outside Handle—Rear Corner 9 1799 A-2899 Hood Catch Assembly

#### ALPHABETICAL INDEX

Name A	Gov't. Group No.	Page No.	Name	Gov't. Page Group No. No.
Accelerator Accelerator Treadle Air Cleaner Ammeter Axle, Front Axle, Rear Axle Shaft (Front Axle) Axle Shaft (Rear Axle) B		31 29 43 . 58-63 63, 66 60, 61	Engine Crank (Starting) Engine Ground Strap Engine Mounting Bracket, I Engine Plate, Front Engine Plate, Rear Engine Support Bracket, Fr Engine Support Insulators. Exhaust Manifold.	
Battery	2309			P
Battery Hold Down Frame Battery Support Bearings (Chart) Bell Housing (Transmission) Belt (Fan and Generator) Bendix Drive Blackout Lamp Blackout Switch Body Body Handles Body Seats Bond Straps Brake Cylinder (Front Wheel) Brake Cylinder (Rear Wheel) Brake, Dustshield Brake, Front Brake, Hand	9619 1506 9709 9503 9602 9607 9606 1807 1804 9612 1207 1207 1207 1205 1208 1208		Fenders, Front Fire Extinguisher Flywheel Flywheel Ring Gear Foot Rest (Rear) Frame Front Axle Front Axle Front Brake Front Bumper Front Fenders Front Springs Fuel Filter Fuel Gauge (Dash Unit)	F
Brake Hose Brake Lining	1209	.70, 72		030431
Brake Pedal Brake, Rear Brake Shoes Brake, Transmission Brake Tubes Bumper (Front) Bumperette (Rear)	1204 1200 1202 0809 1209 2101	.25, 68 68 68 .57, 58 .70, 72 87	Gasoline Tank Gasoline Tubes	G )0304
C			Gauge, Oil (Dash Unit)	
Cable (Hand Brake). Camshaft. Carburetor. Chain Cover. Choke Control. Circuit Breaker (Voltage Regulator). Clutch. Clutch Control.	0106 0301 0101 0303 0601	19 .25, 29 13 31 34	Gear Shift (Transfer Case). Generator	
Clutch Housing (See Bell Housing)	0706	53		Н
Clutch Pedal Clutch Release Coil. Companion Flange (Transfer Case) Connecting Rods. Connecting Rods (Steering) Control Choke Control, Throttle Control, (Transmission) Countershaft (Transmission) Countershaft Gear (Transmission) Crankshaft	0203 0604 0805 0104 1401 0303 0303 0706 0704 0702 0102		Hand Brake. Heat Control Valve Heat Indicator (Dash Unit) Head Lamp. Head Light Foot Switch Hood Horn Horn Button	
Cylinder Block Cylinder Head	0101	13		I
Differential (Front Axle) Differential (Rear Axle) Distributor	1103	63	Ignition Cables	2202 87 0604 43 0604 43 0606 43 0606 43 1807 84

Name	Gov't. Group No.	Page No.	Name	Gov't. Group No.	Page No.
Insulator (Engine Support)	-			s	
Intake Manifold	0108	20	Seals		83
			Shift Lever (Transfer Ca	se)	56
1			Shift Mechanism (Trans Shifting Mechanism (Tra	fer Case)0806 ansmission)0706	56
Junction Block	0606	47	Shock Absorbers Shock Absorber Brackets		78, 79
К			Spare Wheel Lock	1807 0604	85
King Pin	1007	63	Speedometer		87,88
L			Springs, Front Springs, Rear		76, 78
Lamp, (Blackout)	0607	47	Spring Brackets Standard Screws Nuts	etc	88 to 92
Lamp, (Head)	0607	47	Starter Switch		39
Lamp. (Tail and Stop)	0608	48	Starting Crank (Engine)		92
Lamp (Instrument)		43-47		e)	
			Steering Connecting Roo	11401	72
M			Steering Gear Arm	1403	
Main Drive Gear (Transmission)	0702	52	Steering Knuckle		61
Main Shaft (Transmission)	0704	52	Steering Knuckle Tie Ro	×d	72, 73
Mainshaft Gear (Transfer Case) Manifolds	0802	56			
Master Cylinder (Hydraulic Brakes)	1205	68,70			
Mirror (Rear View)	2201	87	Switch, Head Light Foot	t	43
Muffler	0401	33		t	
			Switch, Stop Light		43
o			Synchronizer, (Transmis	sion)	52
Oil Filler Tube. Oil Filter. Oil Float. Oil Gauge Oil Gauge Oil Level Indicator. Oil Pan. Oil Pump. Output Shaft (Transfer Case).	0107 0107 0605 0107 0107	19-20 20 43 19 19	Throttle Control Tie Rod (Front Axle) Timing Chain	T	72, 73
			Tool Compartment		83
P					
Pedal (Brake)	1204	25.68	Transfer Case Support		58
Pedal (Clutch) Pedal Shaft Pintle Hook	1204	25	Transmission		to 53 Inc.
Pipe, Exhaust				U	
Pistons					
Piston Rings Propeller Shaft—Front Propeller Shaft—Rear	0103	58	Universal Joint (Front A Universal Joint (Propello	Axle)	
Tropeller collect - Neutrinian				v	
R			Valves		17
Radiator		87 33 34 75 49-51	Valve Spring Valve Tappet Ventilator (Crank Case)		17
Rear Axle				w	
Rear Brake Rear Springs Rear View Mirror Reflex Reflector Reverse Idler Gear (Transmission) Reverse Idler Shaft (Transmission) Rim and Disc (Wheels)	1601 2201 0608 0702 0704	76, 78 87 48 51	Wheels Wheel Hubs Windshield Windshield Catch		72 72 81,82

#### **GOVERNMENT INDEX**

### Covering Grouping as Recommended by the Office of the

#### QUARTERMASTER GENERAL

ENGINE	GROUP 01	Page No.	TRANSM	ISSION	GROUP 07	Page No.
0100	Engine Assembly		0700	Transmission A	assembly	51
	Cylinder Block and Head, and Chain C		0701			
	Crankshaft, Bearings and Caps		0702			
0103	Pistons, Rings and Piston Pins		0703		nion and Bearings	
	Connecting Rods and Bearings		0704	Main Shaft, C	ountershaft and Reve	rse Idler
	Valves, Springs, Guides, Tappets, Etc.		0705		untershaft	
	Camshaft, Timing Bearings, Etc		0705 0706		ears (See Group No. 0	
0107	Oil Pump, Oil Pan, Gauge, Oil Filter		0709		rers	
0108	Tank		0710		nd Connecting Parts . er	
0109	Flywheel, Ring Gear, Etc		0710	Inspection Cov	er	
0110	Mountings					
4110	Promeingo		TRANSFI		GROUP 08	
CLUTCH	GROUP 02		0800			
			0801			
0201	Clutch Disc		0802			
0202 0203	Cover, Pressure Plate and Springs Release Lever, Bearings, Forks, Etc		0804		ear, Shaft and Bearing	
0203	Pedal		0805		lutch Shafts, Gears,	
0207	See Group 0709 for Clutch Housing		0806		gs ork and Levers	
0.07	See Group 6708 for Crutch Housing		0807		ears	
PIPI ON	remen chorn as		0809		Brake Parts	
FUEL SY			0007	Transmission L	Nake Lates	
0301	Carburetor, Air Cleaner					
0302	Fuel Pump, Fuel Pump Tube, Hose, F		PROPELI	LER SHAFT at	nd UNIVERSAL JOIN	IT
0303 0304	Accelerator, Throttle and Choke				GROUP 09	
0304	Fuel Tank and Lines		0901	Propeller Shaft	Assembly, Front and	Rear58
P3555 4 510	m		0902		ts	
EXHAUS			0903	Propeller Shaft	"U" Bolt	
0401	Muffler					
0402	Exhaust Pipe		FRONT A	AXLE	GROUP 10	
0403	Connecting Parts		1000		embly	50
			1001			
	G SYSTEM GROUP 05		1002		d Bearings	
0501	Radiator Shell and Core, Filler Cap		1003		s, Shims, Etc	
0503	Water Pump, Fan and Belt		1005		ersal Joint	
0504	Radiator Mountings		1006	Steering Knuc	kle. Flange and Steeri	ing Arm
0505	Engine Water Fittings and Hose	34		(Front Whee	el Drive Only)	61,63
			1007	King Pins, Spi	ndle, Etc	63
ELECTRI	ICAL GROUP 06					
0601	Generator and Regulator	34-37-39	REAR A	XLE	GROUP 11	
0602	Starting Motor	39-41	1100	Rear Axle Asse	embly	63
0603	Distributor and Condenser	41-42	1101		nbly	
0604	Ignition Coil and Wiring and Spark P	lugs, and	1102		afts	
****	Ignition Switch		1103	Differential an	d Carrier Assembly and	l Bearings.
0605	Instruments					
9696 9697	Light Switches and Cables		1104	Pinion Bearing	gs and Mounting Parts	66
0608	Headlamps, Sealed Beams					
0609	Tail and Auxiliary Lamp		BRAKES		GROUP 12	
0610	Starting Cables and Connections	90	1200	Brake Assemb	ly	
0010	(For Battery See Group 2309)	48-49	1201			
0612	Radio Suppression		1202		ing	

BRAKES	(Cont.)	Page No.		FENDERS, and MISCELLANEOUS SHEET	
1203	Brake Shoe Support, Guide S	Spring, Adjust-	META	L GROUP Page 1	vo.
1204 1205 1207 1208	ing Pins, Anchor Plate Pedal and Pedal Shaft Master Cylinder Wheel Cylinders Brake Dust Shield or Backing		1701 1702 1704	Fenders	.79
1209	Brake Lines, Pipes and Hoses		BODY	GROUP 18	
	, HUBS and DRUMS (From GROUP 13 Wheel Assembly, Bearings, Re Hubs and Drums, Wheel Stud	t and Rear)	1801 1802 1804 1806 1807	Windshield, Windshield Wiper and Parts81, Floor Mats and Seals	.82 .83 .83
			BUMPER	RS and GUARDS	
STEERIN	G GROUP 14			GROUP 21	
1401 1402	Steering Connecting Rod or D Steering Tie Rod		2101 2103	Bumpers Radiator Guard	
1403 1404 1405	Steering Gear Assembly Steering Wheel Assembly Brackets and Attaching Parts		MISCEL SORIE	LANEOUS BODY and CHASSIS, and ACCES S GROUP 22	š-
FRAME.	AND BRACKETS  GROUP 15		2201 2202 2203	Rear View Mirrors	.87
1502	Pintle Hooks				
1502 1503 1505	Spring Brackets	75	GENERA	AL USE, STANDARDIZED PARTS GROUP 23	
1506	Frame and Brackets	83-84	2304	Miscellaneous Nuts, Bolts, Screws and Washers	92
SPRING	and SHOCK ABSORBERS GROUP 16	,	2306 2308 2309	Tools, Starting Crank and Equipment92, Bulbs	93
1601 1602	Front and Rear Springs Shackles and Spring Attaching		2310	Tarpaulins, Bows, Corners, Covers, and End Curtains	94
1603	Shock Absorbers	78, 79	2317	Brake Lining	.94

#### INDEX OF ILLUSTRATIONS

		Page No.		Page No
Fig. Fig. Fig. Fig. Fig.	1	Truck Complete Left Side3	Fig. 22	Blackout Driving Lamp
Fig.	2	Truck Complete Right Side	Fig. 23	Blackout Fender Lamp46
Fig.	3	Front Sectional View of Engine	Fig. 24	Head Lamp46
Fig.	4	Cylinder Head, Manifold and Valve Cover 10	Fig. 25	Tail Lamp46
Fig.	5	Timing Chain Cover, Cylinder Block and Bell	Fig. 26	Transmission
		Housing11	Fig. 27	Transfer Case
Fig.	6	Side Sectional View of Engine	Fig. 28	Propeller Shaft—Rear
Fig. Fig. Fig. Fig. Fig.	7	Crankshaft and Connecting Rod14	Fig. 29	Front Axle Assembly
Fig.	8	Valve Mechanism	Fig. 30	Front Axle, Steering Knuckle and Wheel Bearing 59
Fig.	9	Oil Pump18	Fig. 31	Rear Axle Assembly
Fig.	10	Clutch	Fig. 32	Brake System64-65
Fig.	11	Clutch Control22	Fig. 33	Brake67
Fig.	12	Carburetor	Fig. 34	Brake Master Cylinder
Fig.	13	Fuel Pump27	Fig. 35	Front Wheel Brake Cylinder
Fig. Fig.	14	Accelerator, Throttle and Choke Control	Fig. 36	Steering Connecting Rod69
Fig.	15	Fuel Filter30	Fig. 37	Steering Gear71
Fig.	16	Exhaust System	Fig. 38	Frame74
Fig.	17	Water Pump32	Fig. 39	Spring Shackle
Fig.	18	Generator	Fig. 40	Front Spring Bolt—Rear77
Fig.	18	Starting Motor	Fig. 41	Body (Front Compartment)80
Fig.		Distributor	Fig. 42	Shock Absorber80
Fig.	21	Wiring Diagram		