

TM 10-1147

MAINTENANCE *Manual*

2½ TON • 6 x 6



Built for

**UNITED STATES ARMY
MODELS CCKW 352 & 353**

CONTRACT NUMBERS

W-398-QM-10250-item 1A
W-398-QM-10250-item 1B
W-398-QM-10250-item 1C
W-398-QM-10250-item 1D
W-398-QM-10250-item 1E

W-398-QM-10876-item 1A
W-398-QM-10876-item 1C
W-398-QM-10876-item 1D
DA-W-398-QM-33-item 1A
DA-W-398-QM-33-item 1B

U. S. A. REGISTRATION NUMBERS

W-80922 to W-80961
W-80977 to W-80999
W-801000 to W-801041
W-463546 to W-466455
W-466456 to W-470705
W-470706 to W-473805
W-473806 to W-475305
W-475306 to W-481295
W-481296 to W-481517

W-481518 to W-481895
W-481896 to W-482043
W-482640
W-482702 to W-483301
W-483302 to W-483901
W-483902 to W-483911
W-484713 to W-485739
W-485740 to W-486339

General Motors Truck

TM 10-1147

FORM X-411B

TM 10-1147

WAR DEPARTMENT

Washington, August 26, 1941

TM 10-1147, Maintenance Manual, Truck, 2½ Ton, 6 x 6 GMC (Models CCKW-352-353) published by the Yellow Truck & Coach Manufacturing Company 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

Maintenance Manual

GMC 2½-TON 6 x 6
MODELS CCKW-352 & 353



ADDITIONAL DATA IDENTIFYING THESE
TRUCKS IS GIVEN ON PAGES 4 AND 5

TM 10-1147

FORM X-4118

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GENERAL MOTORS TRUCK & COACH

DIVISION OF
YELLOW TRUCK & COACH MANUFACTURING COMPANY

PONTIAC, MICHIGAN

Index

D DATA

1 AXLE, FRONT

2 AXLE, REAR

3 BODY

4 BRAKES

5 CLUTCH

6 COOLING

7 ELECTRICAL

8 ENGINE

11 FRAME

12 FUEL

13 LUBRICATION

15 SPRINGS

16 STEERING

17 TRANSMISSION

18 PROPELLER SHAFT

19 WHEELS

W WINCH

I INDEX



GMC TRUCK 2½-TON 6x6 TRUCK
(Model illustrated is 164" wheelbase—is not equipped with winch)

Keep Them Rolling

This maintenance manual has been especially prepared to cover the GMC 2-1/2 ton 6x6 trucks applying on contracts shown on front cover and is published for the information and guidance of all concerned.

If the utmost in performance and reliability are to be expected, good driving practices should always be observed and each truck periodically inspected in order to make necessary adjustments and perform needed service at the right place at the right time.

All information essential to the proper maintenance and repair of these trucks is contained in this manual. All who are charged with the responsibility of performing such service or with driving the vehicles should study this book thoroughly and refer to it frequently.

Knowledge thus gained and applied will help to " keep them rolling ".

VEHICLE IDENTIFICATION

THIS CHART GIVES COMPLETE IDENTIFICATION OF GMC TRUCKS ORDERED ON GOVERNMENT CONTRACT NUMBERS SHOWN BELOW

These vehicles covered in GMC Maintenance Manual Form X-4118 (TM 10-1147)

GMC TC NUMBER	NUMBER OF VEHICLES	GOVERNMENT CONTRACT NUMBER	U. S. A. REGISTRATION NUMBER	GMC MODEL AND CHASSIS SERIAL NUMBER	CHASSIS WHEEL-BASE	TYPE OF EQUIPMENT			
						AXLE	BODY	WINCH	
200119	2910	W-398-QM-10250—ITEM 1A	W-463546 TO W-466455	CCKW-353 SERIAL NO. 41224-A2 CCKW-353 SERIAL NO. 41225-A1 TO 44133-A1	164"	1 TRUCK	BANJO TYPE	CARGO	NONE
200134	5990	W-398-QM-10250—ITEM 1A	W-475306 TO W-481295	CCKW-353 SERIAL NO. 54224-A2 TO 60213-A2	164"	2909 TRUCKS	SPLIT TYPE	CARGO	NONE
200136	222	W-398-QM-10250—ITEM 1A	W-481296 TO W-481517	CCKW-353 SERIAL NO. 60214-A1 TO 60435-A1	164"	5990 TRUCKS	BANJO TYPE	CARGO	NONE
200141	1	W-398-QM-10250—ITEM 1A	W-482640	CCKW-353 SERIAL NO. 60436-A1	164"	1 TRUCK	SPLIT TYPE	CARGO	NONE
200142	148	W-398-QM-10250—ITEM 1A	W-481896 TO W-482043	CCKW-353 SERIAL NO. 60437-A1 TO 60584-A1	164"	222 TRUCKS	SPLIT TYPE	CARGO	NONE
200169	1027	W-398-QM-10250—ITEM 1A	W-484713 TO W-485739	CCKW-353 SERIAL NO. 62773-A2 TO 62864-A2 CCKW-353 SERIAL NO. 62865-A1 TO 63799-A1	164"	148 TRUCKS	SPLIT TYPE	NONE	NONE
200120	4250	W-398-QM-10250—ITEM 1B	W-466456 TO W-470705	CCKW-353 SERIAL NO. 44134-B2 TO 46797-B2 CCKW-353 SERIAL NO. 46798-B1 TO 48383-B1	164"	92 TRUCKS 935 TRUCKS	BANJO TYPE SPLIT TYPE	CARGO CARGO	NONE NONE
200170	600	W-398-QM-10250—ITEM 1B	W-485740 TO W-486339	CCKW-353 SERIAL NO. 63800-B2 TO 64399-B2	164"	2664 TRUCKS 1586 TRUCKS	BANJO TYPE SPLIT TYPE	CARGO CARGO	YES YES
200121	3100	W-398-QM-10250—ITEM 1C	W-470706 TO W-473805	CCKW-352 SERIAL NO. 48384-A1 TO 51483-A1	145"	600 TRUCKS	BANJO TYPE	CARGO	YES
200137	378	W-398-QM-10250—ITEM 1C	W-481518 TO W-481895	CCKW-352 SERIAL NO. 60585-A1 TO 60962-A1	145"	3100 TRUCKS	SPLIT TYPE	CARGO	NONE
200122	1500	W-398-QM-10250—ITEM 1D	W-473806 TO W-475305	CCKW-352 SERIAL NO. 51484-B2 TO 51628-B2 CCKW-352 SERIAL NO. 51629-B1 TO 52983-B1	145"	378 TRUCKS	SPLIT TYPE	CARGO	NONE
200123	40	W-398-QM-10250—ITEM 1E	W-80922 TO W-80961	CCKW-353 SERIAL NO. 52984-D1 TO 53023-D1	145"	145 TRUCKS 1355 TRUCKS	BANJO TYPE SPLIT TYPE	CARGO CARGO	YES YES
200171	65	W-398-QM-10250—ITEM 1E	W-80977 TO W-80999 W-801000 TO W-801041	CCKW-353 SERIAL NO. 52984-D1 TO 53023-D1	164"	40 TRUCKS	SPLIT TYPE	FUEL TANK	NONE
200138	10	W-398-QM-10876—ITEM 1A	W-483902 TO W-483911	CCKW-353 SERIAL NO. 61263-A1 TO 61272-A1	164"	65 TRUCKS	SPLIT TYPE	FUEL TANK	NONE
200163	600	W-398-QM-10876—ITEM 1C	W-483302 TO W-483901	CCKW-352 SERIAL NO. 53624-A2 TO 54223-A2	145"	10 TRUCKS	SPLIT TYPE	NONE	NONE
200135	600	W-398-QM-10876—ITEM 1D	W-482702 TO W-483301	CCKW-352 SERIAL NO. 53024-B2 TO 53623-B2	145"	600 TRUCKS	BANJO TYPE	CARGO	NONE
200143	120	DA-W-398-QM-33—ITEM 1A	NONE	CCKW-353 SERIAL NO. 60963-A2 TO 61082-A2	164"	600 TRUCKS	BANJO TYPE	CARGO	YES
200161	1500	DA-W-398-QM-33—ITEM 1A	NONE	CCKW-353 SERIAL NO. 61273-A1 TO 61572-A1 CCKW-353 SERIAL NO. 61573-A2 TO 62772-A2	164"	120 TRUCKS 300 TRUCKS 1200 TRUCKS	BANJO TYPE SPLIT TYPE BANJO TYPE	CARGO CARGO CARGO	NONE NONE NONE
200144	180	DA-W-398-QM-33—ITEM 1B	NONE	CCKW-353 SERIAL NO. 61083-B2 TO 61262-B2	164"	180 TRUCKS	BANJO TYPE	CARGO	YES

GMC MAINTENANCE MANUAL*Unit Index***D**

FOLLOWING INDEX LISTS VARIOUS SECTION NUMBERS WHICH DESCRIBE UNITS USED ON THESE VEHICLES TOGETHER WITH TYPE OF VEHICLE TO WHICH THEY APPLY. REFERENCE SHOULD BE MADE TO "VEHICLE IDENTIFICATION" LISTING IN INTRODUCTORY PAGES OF THIS BOOK TO DETERMINE SERIAL NUMBERS OF VEHICLES EQUIPPED WITH BANJO OR SPLIT TYPE AXLE HOUSINGS.

Section Name In Order Shown	Type of Axle Housing Used on Vehicle.	
	Banjo Type Housing Section Number	Split Type Housing Section Number
DRIVER'S INSTRUCTIONS	DR.450	DR.450
FRONT AXLE	1.8301	1.8401
REAR AXLE	2.10501	2.10610
CAB	3.3201	3.3201
BRAKES	4.11801	4.11801
CLUTCH	5.9101	5.9101
COOLING SYSTEM	6.8801A	6.8801A
WIRING	7W.1001	7W.1001
STARTING MOTOR AND BATTERY	7S.0551	7S.0551
DISTRIBUTOR, COIL, AND SPARK PLUGS	7D.0701	7D.0701
GENERATOR AND CONTROL	7G.0451A	7G.0451A
LIGHTING EQUIPMENT	7L.0751	7L.0751
MISCELLANEOUS ELECTRICAL	7M.0351	7M.0351
ENGINE	8.9201A	8.9201A
FRAME	11.6001	11.6001
FUEL SYSTEM	12.10701	12.10701
LUBRICATION	13.1001	13.1001
SPRINGS	15.6701	15.6701
STEERING GEAR	16.9201	16.9201
TRANSMISSION	17.12401	17.12401
TRANSFER CASE	17.12501	17.12601
PROPELLER SHAFTS	18.8901	18.8901
WHEELS, HUBS, AND BEARING	19.9801	19.9801
WINCH	W.051	W.051

GMC MAINTENANCE MANUAL

General Data

<u>Engine</u>	
Type-----	270
Horsepower - S.A.E.-----	34.35
Displacement - Cu. In.-----	269.52
Bore-----	3-25/32"
Stroke-----	4"
Cylinders-----	6
Engine Governed Speed (R.P.M.)-----	2750

Capacities

Fuel Tank - (Gals.)-----	40
Engine Crankcase - Refill (Qts.)-----	10
Cooling System (Qts.)-----	19
Transmission (Pts. or Lbs.)(Without Power Take-Off)---	13
Transmission (Pts. or Lbs.)(With Power Take-Off)-----	14
Oil Bath Air Cleaner (Qts.)-----	1
Winch (For Trucks So Equipped)(Pts. or Lbs.)-----	3-3/4
Vehicles With Split Housing Type Axles (Refill)	
Transfer Case (Pts. or Lbs.)-----	7
Front Axle Differential (Pts. or Lbs.)-----	7
Rear Axle Differential (Pts. or Lbs.)-----	7
Vehicles With Banjo Tupe Axles (Refill)	
Transfer Case (Pts. or Lbs.)-----	4
Front Axle Differential (Pts. or Lbs.)-----	13-1/2
Rear Axle Differential (Pts. or Lbs.)-----	17

Serial Number and Model Number Locations

Specify Chassis Serial Number and Engine Serial Number in all references to vehicles covered by this publication. Specify Model or Serial Number of units of vehicle whenever service on these items is required.



WINCH—Number plate located at filler plug.



GENERATOR—Model number on plate at pulley end of generator.



GOVERNOR—Model number stamped on governor name plate.



CARBURETOR—Model number stamped on disc near cleanout plug.



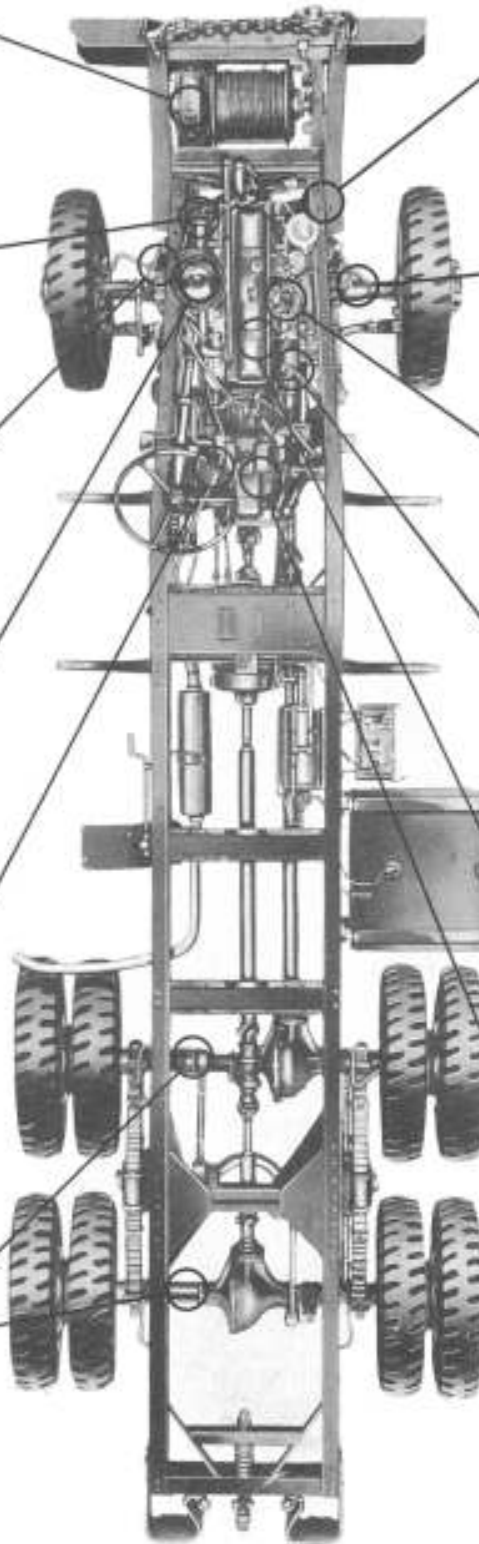
POWER TAKE-OFF—Serial number plate on L. H. side of housing.



REAR AXLE—Stamped on axle housing tube (short side).



CARGO BODY—Model number plate on lower L. H. fast corner of body.



CHASSIS SERIAL NO.—Stamped on R. H. frame side rail above front spring.



FRONT AXLE—Stamped on R. H. side of housing.



DISTRIBUTOR—Model number plate on body of distributor.



STARTING MOTOR—Model number plate on side of motor.



ENGINE—Serial number plate on L. H. of crankcase—also stamped on R. H. side of crankcase near distributor.



TRANSMISSION—Model number appears on name plate on L. H. side of transmission case.



CAR & VOLTAGE REGULATOR—Car serial number plate on L. H. of oval under hood. Regulator model number plate appears on cover of regulator.

GMC 6x6

TM 10-1147 X-4118

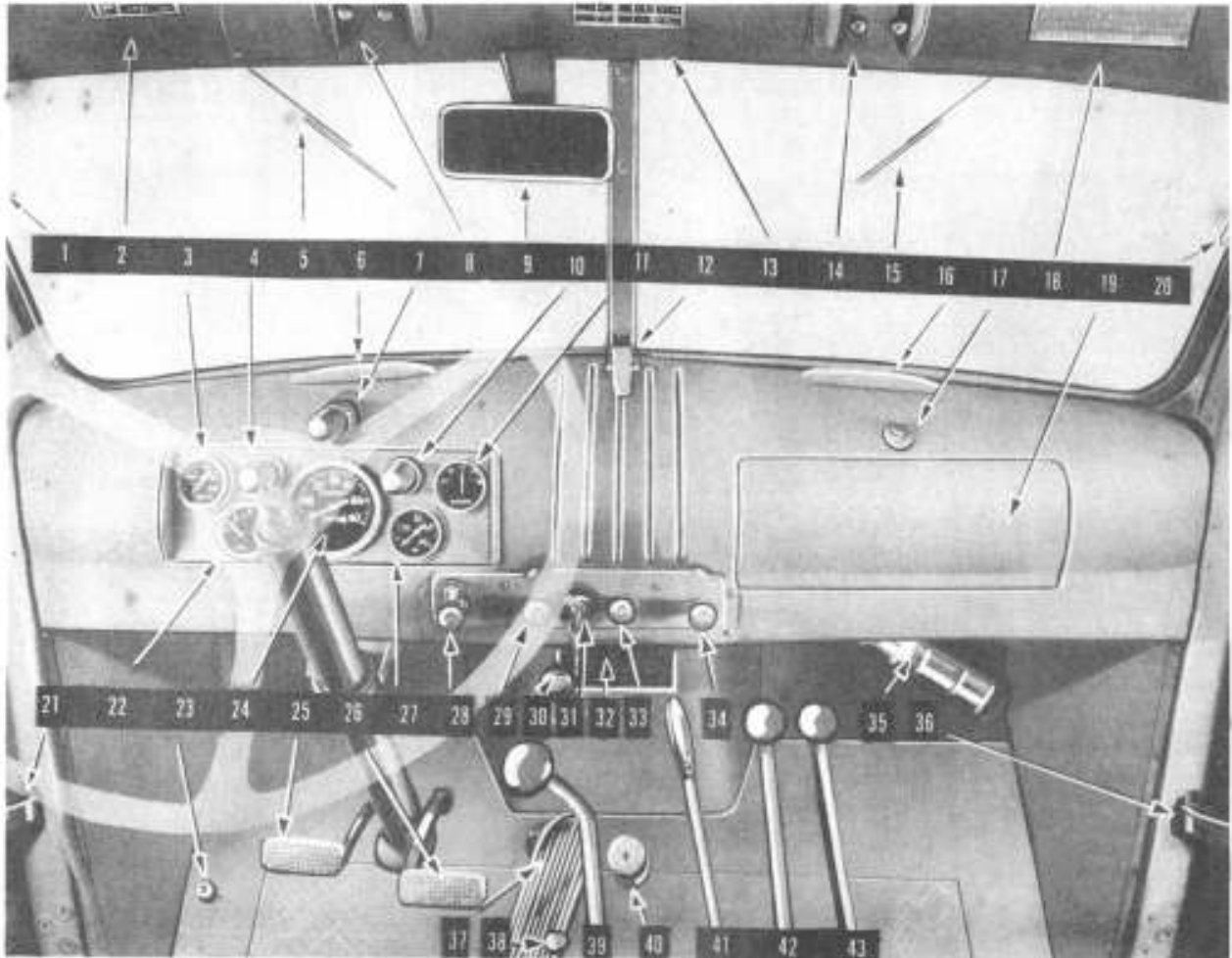
Driver's Instructions

Fig. 1 Interior of Driver's Cab - Showing Controls and Instruments.

- | | | |
|--|---|--|
| 1. L.H. Windshield Quadrant
Adjusting Screw | 15. Windshield Wiper
Blade R.H. | 30. Ventilator Control Handle |
| 2. Shifter Arrangement Plate | 16. Defroster Opening - R.H. | 31. Ignition Key and Switch |
| 3. Temperature Gauge | 17. Package Compartment
Door Lock | 32. Serial Number Plate |
| 4. Temperature and Fuel
Gauge Light | 18. Winch Operating Plate -
(on trucks with winch) | 33. Throttle Button |
| 5. Windshield Wiper Blade L.H. | 19. Package Compartment | 34. Instrument Panel
Light Switch |
| 6. Defroster Opening - L.H. | 20. R.H. Windshield Quadrant
Adjusting Screw | 35. Fire Extinguisher |
| 7. Instrument Light | 21. Door Check Strap | 36. Door Check Strap |
| 8. L.H. Windshield Wiper
Control Buttons | 22. Fuel Gauge | 37. Accelerator Pedal |
| 9. Rear View Mirror | 23. Dimmer Switch | 38. Power Take-Off Lever -
(on trucks with winch) |
| 10. Ammeter and Oil Gauge
Light | 24. Speedometer | 39. Transmission Shift
Lever |
| 11. Ammeter | 25. Clutch Pedal | 40. Starter Button |
| 12. Windshield Lock | 26. Brake Pedal | 41. Hand Brake Lever |
| 13. Road Speed Caution Plate | 27. Oil Gauge | 42. Transfer Case High and
Low Shift Lever |
| 14. R.H. Windshield Wiper
Control Buttons | 28. Light Switch | 43. Transfer Case Front Axle
Declutching Lever |
| | 29. Choke Button | |

PUBLICATIONS APPLYING TO THIS VEHICLE
 PARTS LIST TM-10-1146
 MAINTENANCE MANUAL TM-10-1147

"Publication Plate" - gives "TM" number of Parts Book and Maintenance Manual application to each vehicle.