

# WILLYS 4

1945-61 Universal Jeep



1945-54



1955-61

HOOD RELEASE: Both sides

**SERVICE EVERY 1,000 MILES** (Field Work, Daily) **EXCEPT AT MILEAGE** ■ **SYMBOLS SHOWN**

## COOLING SYSTEM

Quarts  
All models ..... 12  
Cooling system pressure, 7 pounds

Governor ..... MO  
With level plug, fill to plug hole  
Without level plug, fill with 2 ounces

## 2 DRAIN and REFILL

17 Fuel Filter ..... Clean screen

6 Positive Crankcase Ventilator ..... CC  
Remove and clean valve

Manifold Heat Control Valve Shaft ..... PO  
4-cyl. L-head engine

Steering Gear (plug) ..... 90 GL4

Remote Control Gearshift ..... CL  
Some early models

Front Suspension and Steering Linkage ..... (7 to 13 fittings) CL

Brake Master Cylinder (cap) (thru floor) ..... HB  
Fill to 1/2 inch below top of fill hole

Clutch and Brake Pedals ..... CL

## TRANSMISSION and TRANSFER CASE

GL4  
Above +32°, 90; below +32°, 80  
Maintain level to fill plug hole

10 DRAIN and REFILL  
Transfer Case, drain and fill thru separate plug holes

12 Hand Brake Cable ..... Coat GG

12 Speedometer Cable ..... Coat GG

4 Power Take-Off Universal Joint ..... Repack CL

Spring Bolts ..... CL  
Some, no lubrication

Rear Wheel Bearings ..... WB  
Fittings ..... WB  
Apply sparingly until lubricant appears at vent hole above fitting

Without fittings ..... Repack WB

6 REAR DIFFERENTIAL ..... 90 GL4  
Maintain level to fill plug hole

10 DRAIN and REFILL  
POWR-LOK IDENTIFICATION (Front and Rear):  
Metal tag attached to housing stamped with letter "T" or "U" (Use Limited-Slip Differential Lube only)

Spring Shackles ..... CL  
Some, no lubrication

4 Power Take-Off Universal Joint ..... Repack CL

Power Take-Off & Belt Pulley Housings 80 GL4  
Fill each unit to plug level

3 DRAIN and REFILL Thru separate plug holes

GAS TANK ..... Gallons  
All models ..... 10 1/2

TIRES ..... Pressure Front Rear  
6.00-16 ..... 26 28  
7.00-15 ..... 20 24  
7.60-15 ..... 27 27  
6.50-16, 6.70-15, 7.00-15, 6 ply ..... 27 27  
7.00-16, 6 ply ..... 25 25

17 Rotate tires, Method B, then balance wheels

- Position for lift adapter
- Lubrication fitting
- Cooling system drain

## CRANKCASE

Severe driving, "MS" ..... "MM" MO

Above +32° ..... 30 10W-30

Above +10° ..... 20, 20W 10W-30, 10W-20

Above -10° ..... 10W 10W-30, 10W-20

Below -10° ..... 5W 5W-20

CAPACITY 4 quarts  
DRAIN and REFILL  
See Service Instructions, page 2

Battery ..... Test and fill

Oil Filter ..... Replace 6

Generator (2 oil cups) ..... Sparingly 10W MO

Oil Fill Cap

Crankcase Dipstick ..... Check level  
Combined with oil fill cap

Distributor Shaft (oil cup) ..... Sparingly 10W MO

Wick under rotor ..... Sparingly 10W MO

Starter (covered oil hole) ..... MO  
Some 1950 and earlier

Air Cleaner Element ..... Service  
Oil bath ..... Wash and fill MO 2

FRONT DIFFERENTIAL ..... 90 GL4  
Maintain level to fill plug hole

CAPACITY 2 1/2 pints

DRAIN and REFILL ..... 10

Front Wheel Bearings ..... Repack WB 6

Front Axle Universal Joints (plug) ..... UJ  
Fill to plug level. No. 1, summer; No. 0, winter

Repack ..... UJ 12

Universal Joint ..... UJ  
Use low pressure

Universal and Slip Joints ..... UJ  
Use low pressure

Transfer Case Lever Shaft ..... CL

Universals and Slip Joints ..... UJ  
Use low pressure

## SERVICE AS SHOWN

Field or Industrial work: Service all 6, 10 and 12 points listed below, at 300 hours except drain and refill governor, wash and fill oil bath air cleaner at 50 hours; replace oil filter every 150 hours

2 Every 2,000 miles  
Drain and refill governor

Wash and fill oil bath air cleaner

6 Every 6,000 miles  
Clean positive crankcase ventilator valve

Repack rear wheel bearings without fittings

Replace oil filter, add extra quart oil

Repack front wheel bearings

10 Every 10,000 miles  
Drain and refill transmission and transfer case

Drain and refill differentials

12 Every 12,000 miles  
Coat hand brake cable

Coat speedometer cable

Repack front axle universal joints

17 Twice yearly  
Clean fuel filter screen

Rotate tires, balance wheels

6 Conditional service  
Repack power take-off universal joints once a year, when belt pulley is frequently used in continuous operation

3 Every 300 hours  
Drain and refill power take-off and belt pulley housing

**FOR YOUR SAFETY, WE CHECK YOUR BATTERY, BRAKE FLUID, FAN BELT, LIGHTS, MUFFLER, TIRES AND WIPER BLADES**

## KEY TO LUBRICANTS

CC Carburetor Cleaner  
CL Chassis Lubricant  
GG Graphite Grease

GL4\* Multipurpose-Type Gear Lubricant  
API Service GL4  
HB Hydraulic Brake Fluid, Heavy-Duty  
MO Motor Oil

PO Penetrating Oil  
UJ Universal Joint Grease  
WB Wheel Bearing Grease

\* For Powr-Lok Differential, use MP, Multi-Purpose Gear Lubricant, Willys Part No. 94557