

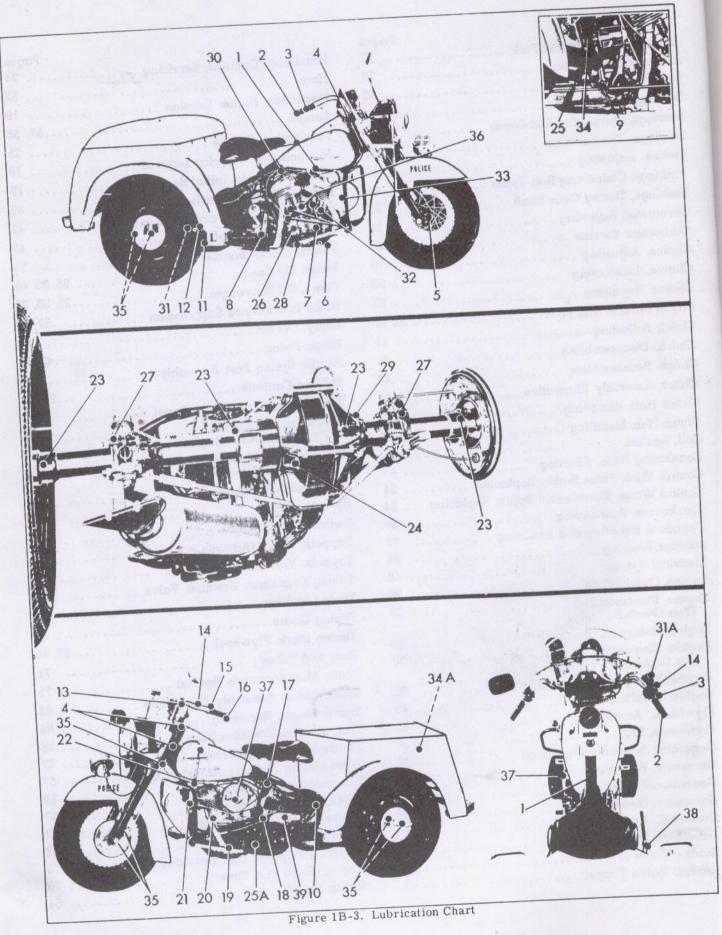
1940-58 45" SV & SERVI-CAR

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REGULAR SERVICE INTERVALS

Regular lubrication and maintenance service should be performed at intervals indicated in accompanying table. For a more detailed description of service and maintenance procedures see sections of manual pertaining to Servi-Car maintenance attention.

REGULAR SERVICE INTERVAL	FIG. 1B-3 INDEX NO.	GREASE	FIG. 1B-3 INDEX NO.	OIL	FIG. 1B-3 INDEX NO.	SERVICE
EVERY 1000 MILES				Rear Chain	37 34 27 28 31,31A 32 33 34,34A	Air Cleaner Battery Rear Chain Adjustment Rear Chain Oiler Hydraulic Brake Fluid Tappets Alternator Drive Belt Tension (1966 & Later) Battery
EVERY 2000 MILES	1	Saddle Bar Bearing				
	29	Speedometer Drive	11	Rear Brake Rod Clevis	and the	Front Chain Adjustment
TAL.	18	Clutch Release Cable Housing	7	Front Brake Rod Clevis	25 25A	1963 & Earlier 1964 & Later
a linear	1 7 8	Seat Post Clutch Push Rod	14	Brake Hand Lever	26	Front Chain Oiler
1000	19	Bearing Clutch Pedal Bearing	13	Front Brake Cable Throttle Con-	36 30	Circuit Breaker Spark Plugs
	6	Rear Brake Pedal Bearing	15	trol Cable Spark Control		T ASS THE A
ne frans sta	12	Master Cylinder Lever	1	Cable (1963 and earlier) Saddle Bar		
	10 9	Body Frame Bearings Starter Crank	22	Bearing Shifter Lever	and a start of	a sector have
		Bearing (1963 and earlier)	21	Bearing Shifter Rod	(d) e	endered and
ater Poletente	5	Front Wheel Hub (2) (1966 & earlier)	20-	Clevis Generator Bear- ing (1960 and		and the second
1	23	Rear Axle Bearings (4)		earlier)	- Server 1	Hali Gali Carriero Diase (Heavy C)
	38	Parking Brake Hand Lever	a.			
EVERY 5000 MILES	2	Throttle Control Spiral	1	and the second	37	Service Air Cleaner
OR 1 YEAR (whichever	. 16	Spark Control Spiral (1963	Spirit.		35	Adjust Brakes Switch Tires
comes first)	24	and earlier) Rear Axle Dif- ferential		1 Martin	a frank a	Time Ignition Inspect Gener- ator or
	20	Generator Bear- ing (1961 to				Alternator
	36	1965) Circuit Breaker Cam				

REGULAR LUBRICATION AND SERVICE INTERVALS CHART

3

SERVI-CAR

REGULAR LUBRICATION AND SERVICE INTERVALS CHART (Cont)

REGULAR SERVICE INTERVAL	FIG. 1B-3 INDEX NO,	GREASE	FIG 1B-3 INDEX NO.	OIL	FIG 1B-3 INDEX NO.	SERVICE
EVERY 10000 MILES OR YEARLY (if used for winter oper- ation)	5	Front Wheel Hub (1967 & later)			39	Starter Motor
EVERY 50,000 MILES	4	Repack Steering Head Bearings				
WEEKLY					34 34A	Check Tires Check Battery 1963 & Earlier 1964 & Later

SERVICE INTERVAL ENGINE AND TRANSMISSION

a harring and	300 MILES	1000 MILES	2000 MILES	5000 MILES or 1 YEAR	SPRING AND FALL
ENGINE OIL	Check	Check	Change		Change
TRANSMISSION OIL		Check		66.	Change

ENGINE AND TRANSMISSION LUBRICANTS

HARLEY-DAVIDSON OIL

Use proper grade of oil for the lowest temperature expected before next oil change period as follows:

Use Harley-Davidson Oil	Use Grade	Air Temperature (Cold Engine Starting Conditions)
Medium Heavy	75	Above 40° F.
Special Light	58	Below 40°F.
Regular Heavy	105	Severe operating conditions at high air temperatures.

HARLEY-DAVIDSON GREASE-ALL GREASE.

Use for all bearings on Servi-Car.

HARLEY-DAVIDSON CHAIN GREASE AND CHAIN SAVER.

Designed especially as a chain lubricant. Penetrates inner bearings for a long chain life.

Mo Mo Mo

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1

Model WLD an W-WL Average NOTEfor sideo Gearing "Gear Ra Servi-Car

Number Cylinder Piston di Stroke (9) Horsepow Wheel Ba

SPECIFICATIONS

Model G (1963 and Earlier) With Towbar Model GA (1963 and Earlier) Less Towbar Model GE (1964 and Later).....Electric Starting (Less Towbar)

DIMENSIONS

Wheel Base 61 in. Overall Length 100 in. Overall Width 48 in.

CAPACITIES

Fuel Tank		 3.4	U.S. Gallons (approximate)
Oil Tank		 		3-1/2 Quarts
Transmission		 	3/4 Pint (approximate)

ENGINE

NOTE: The serial (V.I.N.) numbers of the Harley-Davidson Servi-Car are stamped on the right or left side of the engine crankcase and frame steering head. Always give these numbers when ordering parts or making an inquiry.

IGNITION SYSTEM

Spark Plug												
Average	Use	 	 							No.	3	

TRANSMISSION

Type .																						
Speeds						3	5	Sp	e	e	ds	5	F	0	ry	vard	. 1	1	Re	ve	rse	e

NUMBER OF SPROCKET TEETH

Engine													22
Clutch													59
Transmission													17
Rear Wheel .													37

GEAR RATIOS

First (Low) Gear .									14.4	to	1
Second Gear									9.7	to	1
Third (High) Gear									5.85	to	1
Reverse Gear											

TIRE DATA

Tire Size																
1968 & earlier						,							5.0	0 x	16	3
1969 & later .	•												5.1	0 x	16	3
Tire Pressure.						F	rc	on	t					R	ear	
1968 & earlier					1	2	11	S					1	81	bs	
1969 & later					2	0	11)S					2	41	bs	

The tire inflation pressures given above are for Servi-Car with empty box and rider weighing 150 pounds. Pressures may be increased slightly for loaded box and heavier rider.

CAUTION: Use only 5.00/5.10 x 16 inner tubes with 5.10 x 16 size tires -5.00×16 tube must not be used.

4.5 SIDE VALVE

Models and Compression Ratios

Model

AIN

tes

Compression Ratio

NOTE-Medium compression model is recommended particularly for sidecar service, but is also entirely suitable for solo service. Gearing will, of course, have to be correct for either service (See 'Gear Ratios''). Medium compression model motor also applies to Servi-Car.

License Data

Number of cylinders	
Cylinder bore (69.85 mm.)	234 inches
Fision displacement (739.46 c.c.)	45.12 cm in
Suoke (96.85 mm.)	3-13/16 inches
norsepower (N.A.C.C. Rating)	6.05
Wheel Base	571/2 inches

Gear Ratios

	Motor Sprocket	Clutch Sprocket		Rear Wheel Sprocket	High Gear Ratio
Solo (except WLDR)	31	59	17	41	4.59 to 1
WLDR		59	17	41	4.74 to 1
Sidecar		59	17	41	5.27 to 1
Servi-Car		59	17	37	5.84 to 1

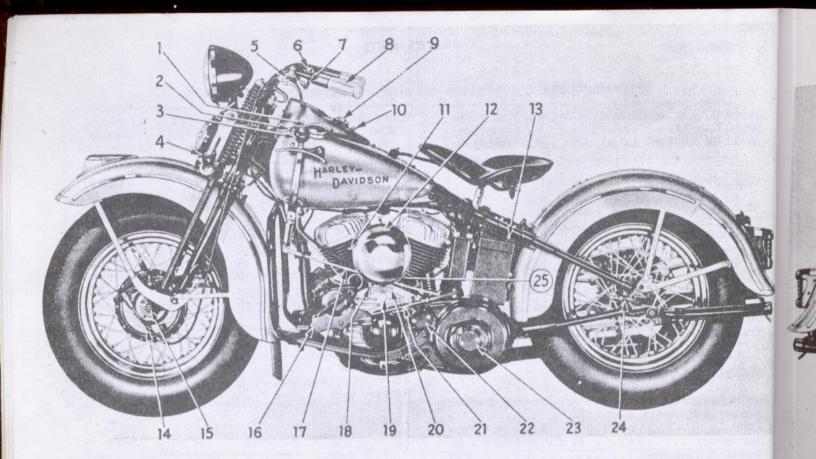
Tire Inflation Pressures

Solo-4.00" tire-Front, 16 lbs.-Rear, 18 lbs.

5.00" tire-Front, 12 lbs.-Rear, 14 lbs.

These are pressures for average load and service. Raise slightly for extra passenger or maintained high speed solo riding.

In Sidecar or Servi-Car service, raise pressure 2 lbs. or more per tire, depending on load. Pressure for Sidecar tire, same as rear tire.



Illus. 1-Left Side Description

Gas tank cap. Tank capacity 3 gallons. Use Ethyl or other 1. "Anti-Knock" gasoline.

Gas shut-off and reserve supply valve plunger. Gas is shut off when plunger is turned down finger-tight against its seat; unscrew plunger (but do not lift it) to use main gas supply; lift plunger to use reserve supply of approximately 3 quarts.

Caution-Gas and oil tank caps are not interchangeable. Oil tank cap which is the shorter cap is not vented; using it on gas tank will vacuum-lock tank.

3. Gear shifter lever-positions marked. Must be at neutral and clutch engaged when starting motor. Fully release clutch before shifting.

4. Ride control (extra equipment). Applies friction and snubs fork action to prevent front end bouncing at higher speeds. For normal service adjust free; tighten (turn right) to desired friction, when running at high speeds.

5. Front wheel brake hand lever. See description No. 14.

6. Horn button.

Headlamp dimming switch. 7.

Spark control grip-turn inward to advance spark; turn out-8 ward to retard spark. Fully advanced is the proper normal running position. When motor is laboring under a hard pull, retard part way for better performance and to avoid knocking. Some motors start best with slight retard.

Ignition-light switch and switch lock. Switch OFF in straight 9. ahead position. Turn left for parking with lights (see wiring diagram concerning attaching front parking lamps). Turn to first right position for ignition only-second right position for ignition and running lights. Bear in mind that lighting headlamp when motor is dead also turns ignition ON.

Switch can be locked only in OFF and PARK positions.

See "Instrument Panel Signal Lights."

10. Speedometer light switch.

11. Carburetor choke lever. Down position-choke open; Up position-full choke. See "Starting Motor."

12. Carburetor air cleaner (extra equipment). See "Air Cleaner."

Positive battery terminal. Keep clean and connection tight. 13.

14. Front wheel brake control adjustment. Properly adjusted, hand lever will move freely about one-quarter of its full movement before brake starts to take effect. If adjusted tighter, brake may drag.

15. Front wheel axle nut. See "Removing Front Wheel."

16. Clutch footpedal. Toe down-clutch engaged; heel downclutch released.

17. Gear shifter rod. After each re-adjustment of front chair also whenever any irregularity is noticed with shifting and positin engagement in different positions, check the adjustment of this m and re-adjust as necessary.

To check and re-adjust, set shifter lever 3 at neutral position disconnect shifter rod, and with slight back and forward movement "feel" transmission lever into exact position where shift carefully spring plunger (inside transmission) seats fully in retaining not Next, see that lever 3 is at exact position, and then re-adjust leng of rod to fit. It is advisable to repeat this check in low and second positions to be sure of having best all-around adjustment.

Shifter control must be kept in correct adjustment, otherwis driving dogs on shifting clutches inside transmission will not ful engage in the different positions, and are likely to become da aged from jumping out of engagement under driving load.

18. Gasoline strainer. Turn off lower end, remove screen, a clean and flush at least once a month, or oftener if the need cleaning is indicated by irregular carburetion. See No. 25.

19. Timing inspection hole plug. To check ignition timing reset circuit breaker assembly after it has been lifted out, folk the marks indicating original factory setting.

With front piston on compression stroke (directly after in valve closes, turning motor ahead) and flywheel mark showing in the center of inspection hole (piston is 9/32 inch before center) the marks on circuit breaker head and breaker cam m register as shown in circuit breaker illustration No. 3.

WLDR is timed 11/32 inch before top center. With flywh mark halfway between back side and center of inspection h follow procedure outlined above for correct ignition timing.

20. Motor or serial number. Always give this number w ordering parts or making any inquiry about your motorcycle.

21. Clutch footpedal cable. See "Adjusting Clutch Control Check adjustment after each front chain re-adjustment.

22. Front chain inspection hole cover.

23. Clutch inspection hole cover.

6

24. Left side rear wheel adjusting screw. By means of screw and a like screw on right side, rear wheel is moved a adjust rear chain. See "Adjusting Rear Chain."

25. Carburetor bowl drain plug. Remove plug, drain and i bowl each time gasoline strainer No. 18 is serviced.

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