

Information and Instructions

This shop manual contains several sections each covering a specific group of wheel type tractors. The Tab Index on the preceding page can be used to locate the section pertaining to each group of tractors. Each section contains the necessary specifications and the brief but terse procedural data needed by a mechanic when repairing a tractor on which he has had no previous actual experience.

Within each section, the material is arranged in a systematic order beginning with an index which is followed immediately by a Table of Condensed Service Specifications. These specifications include dimensions, fits, clearances and timing instructions. Next in order of arrangement is the procedures paragraphs.

In the procedures paragraphs, the order of presentation starts with the front axle system and steering and proceeding toward the rear axle. The last paragraphs are devoted to the power take-off and power lift systems. Interspersed where needed are additional tabular specifications pertaining to wear limits, torquing, etc.

HOW TO USE THE INDEX

Suppose you want to know the procedure for R&R (remove and reinstall) of the engine camshaft. Your first step is to look in the index under the main heading of ENGINE until you find the entry "Camshaft." Now read to the right where under the column covering the tractor you are repairing, you will find a number which indicates the beginning paragraph pertaining to the camshaft. To locate this wanted paragraph in the manual, turn the pages until the running index appearing on the top outside corner of each page contains the number you are seeking. In this paragraph you will find the information concerning the removal of the camshaft.

SHOP MANUAL

J. I. CASE

<u>SERIES</u>	<u>PRODUCTION</u>	<u>SERIES</u>	<u>PRODUCTION</u>
C	1937-1939	R	1937-1940
D	1939-Current	S	1941-Current
L	1937-1940	V	1940-1942
LA	1940-Current	VA	1942-Current

Serial number located on instrument panel name plate. On all series except V and VA, engine serial number is stamped on left rear side of engine block in vicinity of air cleaner. On series V and VA, engine serial number is stamped on right side of engine block.

BUILT IN THESE VERSIONS

SERIES	MODEL DESIGNATIONS Tricycle		MODEL DESIGNATIONS Axle Type	
	Single Wheel	Double Wheel	Non-Adjustable	Adjustable
	C	CC	CC	C-CC-CO
D	DC-DC3	DC-DC3	D-DC-DC4-DCS-DH-DO-DS-DV	DC-DC3
L	—	—	L	—
LA	—	—	LA	—
R	RC	RC	R	RC
S	SC	SC	S-SO	SC
V	VC	VC	V-VO	VC
VA	VAC-VAC11	VAC-VAC12	VA-VAO	VAC-VAC13- VAC14-VAH

(For tractor cross-sectional views, refer to pages 45 and 59.)

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Pulley brake adjustment	140A	140A	140A	140A	140A	140A	—	—
BRAKES								
Contracting band type	245	245	245	245	245	—	—	—
Disc type (Single)	—	257	—	—	—	259	261	261
Disc type (Double)	—	266	—	266	—	266	—	—
Shoe type (Mechanical)	—	—	247	247	—	—	—	255
Shoe type (Hydraulic)	—	—	—	249	—	—	—	—
CARBURETOR								
Gasoline & Distillate	98	98	98	98	98	98	98	98
LPG carburetor	—	99	—	99J	—	—	—	—
LPG filter	—	100	—	100	—	—	—	—
LPG regulator	—	100A	—	100B	—	—	—	—
CLUTCH								
Engine clutch	140	140, 141	140	140	142	141	143	143
Engine clutch shaft	165	165	165	165	165	165	148	148
Power take-off clutch	—	280	—	—	—	280	—	—
COOLING SYSTEM								
Fan and Belt	117 and 118							
Pump	121	121	121	121	—	121	121	121
Radiator	120	120	120	120	120	120	120	120
Thermostat	116	116	116	116	—	116	116	116
DIFFERENTIAL	201	201	201	201	201	201	204	207
ENGINE								
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Camshaft	60	60	60	60	61	60	62	63
Connecting rods & brgs.	71	71	71	71	72	73	73	73
Crankshaft & bearings	74	74	74	74	75	76	76	76
Cylinder head	42	42	42	42	43	42	43	42
Cylinder sleeves	67	67	67	67	67	67	67	67
Flywheel	82	82	82	82	82	82	82	82
Front oil seal	81	81	81	81	81	81	81	81
Main bearings	74	74	74	74	75	76	76	76

SERIES	C	D	L	LA	R	S	V	VA
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Piston pins	69	69	69	69	70	70	70	70
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Piston rings	68	68	68	68	68	68	68	68
Rear oil seal	77	77	77	77	78	77	79	80
Rocker arms	50	50	50	50	—	50	—	50
Tappets	48	48	48	48	49	48	49	48
Timing gear cover	54	54	54	54	55	56	55	55
Timing gears	57	57	57	57	58	57	57	59
Valve guides	46	46	46	46	46	46	46	46
Valve springs	47	47	47	47	47	47	47	47
Valve timing	51	51	51	51	52	51	53	53
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Front axle member	15	15	15	15	15	15	15	15
Pedestal, adjust	1	1	—	—	1	1	1	1
Pedestal, overhaul	8	8	—	—	8	8	8	8
Pivot pin	18	18	18	18	18	18	18	18
Radius rod	17	17	17	17	17	17	17	17
Spindle (knuckle)	16	16	16	16	16	16	16	16
Steering gear	22	22	22	26	22	22	22	22, 33
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First reduction shaft	166A	166B	166D	166E	166B	166B	—	—
Input shaft	165	165	165	165	165	165	171	179
Main shaft	—	—	—	—	—	—	172	179
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Shifter forks	163	163	163	163	163	163	170	178
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SHOP MANUAL

J. I. CASE

SERIES 200B-300-300B-350-400B-500B-600B

Tractor serial number is stamped on dash name plate.

Engine serial number is stamped on side of cylinder block.

BUILT IN THESE VERSIONS

GASOLINE	LOW COST	LP-GAS	DIESEL	
210B, 310, 310B, 350, 410B, 510B, 610B	310, 310B	310, 310B, 410B, 510B, 610B	300, 300B	Utility, non-adjust- able front axle
310B, 410B	310B	310B, 410B	300B	Utility, adjustable front axle
211B, 311, 311B, 312, 312B, 351, 411B, 511B, 611B	311, 311B, 312, 312B	311, 311B, 312, 312B, 411B, 511B, 611B	301, 301B, 302, 302B	General purpose dual wheel tricycle
211B, 311, 311B, 312B, 351, 411B, 511B, 611B	311, 311B, 312B	311, 311B, 312B, 411B, 511B, 611B	301, 301B, 302B	General purpose ad- justable front axle
312, 312B, 351, 511B, 611B	312, 312B	312, 312B, 511B, 611B	302, 302B	General purpose single wheel tricycle

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BRAKES	110	110	110	110	110	110	110	110	110
CARBURETOR (Not LP-Gas)	45	45	45	45	45	45	45
"CASE-O-MATIC"									
Clutch	94M	94M
Clutch Pressure Regulator.....	94L	94L
Control Valve	94L	94L
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FRONT SYSTEM									
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Steering Knuckles	2	2	2	2	2	3	2	3	3
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Tricycle	1	1	1	1	1	1	1	1	1
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Pump	8E	8E	8E	8E	8E	8E	8E
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SHOP MANUAL

J. I. CASE

SERIES 400-700B-800B

Serial number is stamped on the instrument panel name plate and on the left rear side of the engine block near the air cleaner.

BUILT IN THESE VERSIONS

	TRICYCLE		AXLE TYPE	
	Single Wheel	Dual Wheel	Non-Adjustable	Adjustable
DIESEL MODELS	401-701B-801B	401-701B-801B	400-402-405-420-700B-702B-705B-800B-802B-805B	401-403-701B-703B-801B-803B
NON-DIESEL MODELS	411-711B-811B	411-711B-811B	410-412-415-425-710B-712B-715B-810B-812B-815B	411-413-711B-713B-811B-813B

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