

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT

MAINTENANCE MANUAL

TRACTOR, FULL TRACKED, LOW SPEED, DED MEDIUM

DRAWBAR PULL; OSCILLATING TRACK, 78-IN. GAGE

(CATERPILLAR MODEL D7F)

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			Paragraph	Page
List of Illustration				
CHAPTER	1.	INTRODUCTION		
Section	I.	General	1-1	1-1
	II.	Description and data	1-4	1-1
CHAPTER	2.	DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS		
Section	I.	Repair parts, special tools and equipment	2-1	2-1
	II.	Troubleshooting	2-3	2-1
	III.	General Maintenance	2-5	2-3
	IV.	Removal and installation of major components	2-7	2-13
CHAPTER	3.	REPAIR OF EARTH MOVING EQUIPMENT AND WINCH		
Section	I.	Bulldozer	3-1	3-1
	II.	Ripper	3-5	3-3
	III.	Winch	3-10	3-4
CHAPTER	4.	REPAIR OF HYDRAULIC SYSTEM		
Section	I.	Hydraulic tank	4-1	4-1
	II.	Hydraulic control valves and hydraulic pump	4-3	4-4
	III.	Hydraulic cylinders	4-8	4-33
CHAPTER	5.	REPAIR OF THE POWER PLANT		
Section	I.	Cooling system	5-1	5-1
	II.	Fuel system	5-9	5-20
	III.	Air induction and exhaust system	5-15	5-30
	IV.	Electrical system	5-19	5-42
	V.	Engine lubricating system	5-23	5-49
	VI.	Diesel engine	5-26	5-54
CHAPTER	6.	REPAIR OF DRIVE TRAIN		
Section	I.	Torque divider and transmission	6-1	6-1
	II.	Steering clutches, brakes and bevel gear	6-13	6-68
	III.	Final drive	6-19	6-89

			Paragraph	Page
CHAPTER	7.	REPAIR OF TRACK ROLLER FRAME AND TRACKS		
Section	I.	General		7-1
	II.	Track assembly	7-1	7-2
	III.	Equalizer bar and track roller frame.	7-9	7-9
APPENDIX	A.	REFERENCES		A-1
INDEX			I-1

LIST OF ILLUSTRATIONS

<i>Number</i>	<i>Title</i>	<i>Page</i>
1-1	Electrical system schematic diagram	1-2
2-1	Lifting beam	2-3
2-2	Lifting eyelet	2-3
2-3	Pulley assembly	2-4
2-4	Bearing pulling attachment	2-4
2-5	Installing metal locks	2-4
2-6	Locked anti-friction bearing	2-5
2-7	Chamfer on a shouldered shaft	2-5
2-8	Floating seal installation	2-5
2-9	Floating seal installation tool	2-6
2-10	Floating seals installed with metal floating ring seal and toric sealing ring properly positioned	2-6
2-11	Lip-type seal	2-6
2-12	Heel and toe type seals	2-7
2-13	Elbow body assembly	2-8
2-14	Sleeve type fitting	2-8
2-15	Sleeve and insert-type fitting	2-8
2-16	Shear-type fitting	2-9
2-17	Removing bolt retainer spring	2-9
2-18	Hydraulic cylinder rod and head ends	2-9
2-19	Cylinder head seals	2-9
2-20	Three seal cylinder head	2-10
2-21	Removing cylinder head shims	2-10
2-22	Packing and shims installed	2-10
2-23	Measuring cylinder head clearance	2-11
2-24	Solid seal assemblies installed on piston	2-11
2-25	Seal on expander	2-11
2-26	Compressing seals	2-12
2-27	Pump cartridge	2-12
2-28	Ring, rotor and vane installation	2-12
2-29	Back-up ring installation	2-13
2-30	Typical pump assembly	2-13
2-31	Preparing to remove engine (Sheet 1 of 6)	2-14
2-31	Preparing to remove engine (Sheet 2 of 6)	2-15
2-31	Preparing to remove engine (Sheet 3 of 6)	2-16
2-31	Preparing to remove engine (Sheet 4 of 6)	2-17
2-31	Preparing to remove engine (Sheet 5 of 6)	2-18
2-31	Prepaing to remove engine (Sheet 6 of 6)	2-19
2-32	Engine removal	2-20
2-33	Preparing to remove transmission (Sheet 1 of 3)	2-21
2-33	Preparing to remove transmission (Sheet 2 of 3)	2-22
2-33	Preparing to remove transmission (Sheet 3 of 3)	2-23
3-1	Bulldozer assembly	3-1
3-2	Scarifier	3-2
3-3	Hydraulic cylinder, link arm, and beam assembly removal and installation	3-3
3-4	Winch hydraulic pump, exploded view	3-5
3-5	Control valve removal	3-6
3-6	Winch control valve, exploded view	3-7
3-7	Power take-off bearing carrier and brake drum, removal and installation	3-8
3-8	Brake shaft removal	3-9
3-9	Bearing gear shaft, cross sectional view	3-10
3-10	Bearing and clutch drive gear removal	3-10
3-11	Bevel gear shaft removal	3-10
3-12	Intermediate gear and drum pinion removal	3-11
3-13	Bearing retainer removal	3-11
3-14	Drum shaft removal	3-11
3-15	Clutch separator plates	3-11
3-16	Hydraulic clutch	3-12
3-17	Hydraulic clutch, exploded view	3-12
3-18	Bevel gear shaft	3-13
3-19	Pinion depth	3-14
4-1	Hydraulic tank removal	4-2
4-2	Preparing to disassemble tank	4-3
4-3	Filter inlet line disconnect	4-4

<i>Number</i>	<i>Title</i>	<i>Page</i>
4-4	Bulldozer and ripper control valves (Sheet 1 of 2)	4-5
4-4	Bulldozer and ripper control valves (Sheets 2 of 2)	4-6
4-5	Valve spool removal	4-8
4-6	Valve spool disassembled	4-9
4-7	Check valve removal	4-11
4-8	Make up valve body removal	4-13
4-9	Makeup valve disassembled	4-14
4-10	Control lever assembly (Sheet 1 of 2)	4-16
4-10	Control lever assembly (Sheet 2 of 2)	4-17
4-11	Control lever disassembly	4-18
4-12	Measuring clearance	4-19
4-13	Bulldozer relief valve removal	4-20
4-14	Relief valve disassembly	4-21
4-15	Ripper control valve disassembly	4-22
4-16	Blade tilt manifold and valve removal	4-24
4-17	Tilt control valve disassembly	4-26
4-18	Tilt control lever removal	4-27
4-19	Cover and cartridge removal, small pump section	4-29
4-20	Cartridge disassembly, small pump section	4-30
4-21	Cover and cartridge removal, large pump	4-31
4-22	Cartridge disassembly, large pump section	4-32
4-23	Shaft, seal and bearing removal	4-33
4-24	Disconnecting piston rod	4-34
4-25	Lift cylinder removal	4-34
4-26	Preparing to disassemble cylinder	4-35
4-27	Disassembling piston and head	4-36
4-28	Relief valve removal	4-36
4-29	Driver dimensions	4-36
4-30	Piston rod bearing assembly	4-37
4-31	Measuring clearance	4-37
4-32	Piston reassembly	4-38
4-33	Seal assembly installation tools	4-38
4-34	Removing shims	4-39
4-35	Tilt cylinder removal	4-40
4-36	Preparing to disassemble cylinder	4-36
4-37	Removing nut	4-42
4-38	Disassembling piston head	4-43
4-39	Measuring clearance	4-44
4-40	Removing shims	4-44
4-41	Ripper lift cylinder, exploded view	4-45
5-1	Cooling system schematic diagram	5-1
5-2	Hood, headlight brackets and radiator top guard, removal and installation	5-2
5-3	Preparing to remove radiator	5-3
5-4	Lifting radiator from radiator guard	5-4
5-5	Radiator disassembly	5-5
5-6	Radiator bottom guard, removal and installation	5-7
5-7	Fan adapter and fan drive and support assembly coupling	5-8
5-8	Bulldozer lift cylinder hydraulic lines disconnect couplings	5-9
5-9	Radiator and radiator guard, removal and installation	5-11
5-10	Lifting radiator guard and radiator from tractor	5-12
5-11	Fan belt removal and installation	5-13
5-12	Water pump, removal and installation	5-15
5-13	Water pump, exploded view	5-16
5-14	Engine oil cooler, removal and installation	5-17
5-15	Fan and fan drive, disassembly	5-19
5-16	Fuel injector, removal and installation	5-20
5-17	Fuel injector, disassembly and reassembly	5-21
5-18	Fuel injection pump, removal and installation	5-22
5-19	Fuel injection pump, exploded view	5-23
5-20	Engine speed governor, exploded view	5-26
5-21	Fuel transfer pump, removal and installation	5-28
5-22	Fuel transfer pump	5-29
5-23	Fuel tank, removal and installation	5-30
5-24	Air cleaner body, removal and installation	5-31
5-25	Muffler, removal and installation	5-32
5-26	Engine exhaust flow diagram	5-33
5-27	Turbocharger, removal and installation	5-34

<i>Number</i>	<i>Title</i>	<i>Page</i>
5-28	Turbocharger mounting fixture and adapter plate	5-35
5-29	Matchmarking turbocharger parts relation	5-35
5-30	Turbocharger, disassembly and reassembly	5-36
5-31	Turbocharger retaining nut removal and installation	5-37
5-32	Pressing turbocharger shaft from turbine wheel	5-38
5-33	Turbocharger clearance check, between spacer block and housing face	5-39
5-34	Exhaust manifold, removal and installation	5-41
5-35	Generator disassembly	5-43
5-36	Starter motor, exploded view (Sheet 1 of 2)	5-45
5-36	Starter motor, exploded view (Sheet 2 of 2)	5-45
5-37	Oil pump, removal and installation	5-50
5-38	Oil pump, exploded view	5-51
5-39	Oil pan and oil pan plate, removal and installation	5-53
5-40	Cylinder head and valves, exploded view	5-55
5-41	Cylinder head bolts torque sequence	5-56
5-42	Accessory drive shaft, removal and installation (Sheet 1 of 2)	5-58
5-42	Accessory drive shaft, removal and installation (Sheet 2 of 2)	5-59
5-43	Timing fixture plate installed	5-60
5-44	Timing gears and cover, exploded view	5-61
5-45	Timing gears and marks	5-62
5-46	Camshaft assembly, exploded view	5-63
5-47	Power takeoff cover, removal and installation	5-64
5-48	Power takeoff drive gears	5-65
5-49	Removing power takeoff drive gear bearings.	5-66
5-50	Flywheel, removal and installation	5-68
5-51	Flywheel and hydraulic pump drive gear	5-69
5-52	Hydraulic pump idler gear, removal and installation	5-70
5-53	Flywheel housing, removal and installation	5-72
5-54	Checking flywheel housing runout	5-73
5-55	Checking flywheel runout	5-74
5-56	Piston and connecting rod, exploded view	5-76
5-57	Crankshaft and main bearings	5-78
6-1	Torque divider	6-2
6-2	Cross-sectional view of transmission	6-3
6-3	Universal joint disassembly	6-4
6-4	Preparing to remove sun gear	6-6
6-5	Pilot bearing and retaining ring, removal and installation	6-7
6-6	Planet carrier, removal and installation	6-8
6-7	Planet carrier, disassembly and reassembly	6-9
6-8	Torque divider housing, removal and installation	6-10
6-9	Removing output shaft bearing	6-11
6-10	Scavenge pump, exploded view	6-12
6-11	Removing stator	6-13
6-12	Impeller disassembly	6-13
6-13	Carrier disassembly	6-14
6-14	Ring gear removal	6-15
6-15	Turbine flange assembly and rotating housing, removal	6-17
6-16	Flange assembly	6-18
6-17	Rotating housing bearing and bearing retainer	6-19
6-18	Torque converter clearances	6-20
6-19	Checking torque converter clearances	6-21
6-20	Hydraulic controls (schematic)	6-23
6-21	Hydraulic control removal	6-25
6-22	Disassembly of pressure control valve	6-26
6-23	Differential valve removal	6-26
6-24	Pressure relief valve removal	6-27
6-25	Pressure relief valve disassembly	6-27
6-26	Pressure control valve assembly	6-27
6-27	Safety and directional valve disassembly	6-28
6-28	Speed selector valve	6-28
6-29	Linkage adjustment	6-29
6-30	Linkage adjustment (top view)	6-31
6-31	Hydraulic pump disassembly	6-33
6-32	Torque converter inlet relief valve and directional valve body	6-34
6-33	Torque converter inlet relief valve	6-35
6-34	Torque converter outlet relief valve removal	6-36

<i>Number</i>	<i>Title</i>	<i>Page</i>
6-35	Outlet relief valve assembly.....	6-36
6-36	Check valve removal	6-37
6-37	Check valve disassembly	6-38
6-38	Clutch operation	6-39
6-39	Clutch designation	6-39
6-40	Preparing to remove input shaft front oil seal	6-40
6-41	Removing input shaft front oil seal	6-40
6-42	Preparing to remove transmission case	6-41
6-43	Removing transmission case	6-41
6-44	Checking clutch operation	6-42
6-45	Preparing to remove input shaft	6-42
6-46	Removing input shaft	6-42
6-47	Removal of No. 1 and No. 2 clutch	6-43
6-48	Removing No. 1 carrier	6-43
6-49	Removing No. 3 clutch housing	6-44
6-50	No. 2 carrier removal	6-45
6-51	Removing output shaft	6-45
6-52	Preparing to disassemble input shaft	6-46
6-53	Bearing cage removal.	6-46
6-54	Oil seal removal	6-46
6-55	Retainer ring removal	6-47
6-56	Bearing cage disassembly	6-48
6-57	Bearing race and sun gear removal	6-50
6-58	No. 4 sun gear removal	6-51
6-59	No. 1 carrier disassembly	6-52
6-60	No. 2 carrier disassembly	6-54
6-61	Clutch disassembly	6-55
6-62	Transfer gear removal	6-56
6-63	Removing transfer gear outer bearings.	6-56
6-64	Separating cages	6-57
6-65	Removing cover	6-59
6-66	Removing bevel pinion	6-60
6-67	Bearing outer race removal	6-61
6-68	Junction block removal	6-62
6-69	Transmission hydraulic control system schematic (first foward)	6-63
6-70	Hydraulic control system pressure tap locations	6-65
6-71	Transmission control linkage, exploded view	6-67
6-72	Brake operation	6-69
6-73	Preparing to remove brake engaging mechanism	6-70
6-74	Brake engaging mechanism removal	6-70
6-75	Brake, engaging mechanism disassembly	6-71
6-76	Brake, lever bearings	6-72
6-77	Brake adjusting mechanism	6-72
6-78	Disassembling clutch cover brake linkage.	6-73
6-79	Adjusting brake engaging mechanism.	6-74
6-80	Adjusting brake linkage	6-75
6-81	Steering clutch operation	6-75
6-82	Prepaing to remove steering clutch assembly	6-76
6-83	Removing steering clutch assembly	6-76
6-84	Removing outer drum.	6-77
6-85	Cross section of clutch assembly.	6-77
6-86	Holding steering clutch spring in compression.	6-78
6-87	Preparing to assemble clutch assembly	6-78
6-88	Assembling springs and sleeves to retainer.	6-79
6-89	Installing inner drum.	6-79
6-90	Installing clutch disc assemblies	6-79
6-91	Compressing steering clutch springs.	6-80
6-92	Removing steering clutch assembly from inter drum	6-80
6-93	Removing steering clutch piston	6-80
6-94	Preparing to remove hub retaining hub	6-80
6-95	Removing hub retaining nut.	6-81
6-96	Steering clutch hub assembly (exploded view)	6-81
6-97	Pulling hub.	6-81
6-98	Installing hub	6-82
6-99	Steering clutch hydraulic control (side view)	6-83
6-100	Control piston operation.	6-84
6-101	Control valve removal	6-84
6-102	Control valve housing disassembly.	6-84

<i>Number</i>	<i>Title</i>	<i>Page</i>
6-103	Plunger and valve disassembly	6-85
6-104	Control lever housing disassembly	6-85
6-105	Plug removal	6-85
6-106	Preparing to remove bevel gear and bevel gear shaft	6-86
6-107	Removing bearing cage	6-86
6-108	Removing bevel gear shaft	6-87
6-109	Measuring clearance	6-88
6-110	Measuring backlash	6-88
6-111	Final drive	6-90
6-112	Outer bearing removal	6-91
6-113	Outer bearing installation	6-92
6-114	Bearing cage holder removal	6-93
6-115	Bearing cage holder assembly	6-94
6-116	Removing bearing cage	6-94
6-117	Removing outer bearing cone	6-96
6-118	Removing nut with yoke installed	6-96
6-119	Sprocket removal	6-97
6-120	Installing sprocket	6-98
6-121	Sprocket installing tools	6-99
6-122	Checking sprocket location	6-100
6-123	Installing retaining nut	6-100
6-124	Preparing to remove segment	6-101
6-125	Removing segment	6-101
6-126	Final drive case removal	6-102
6-127	Final drive case installation	6-103
6-128	Installing metal floating ring seal	6-103
6-129	Removing outer race and roller assemblies	6-104
6-130	Removing final drive gear and hub	6-104
6-131	Hub inner bearing cone removal	6-105
6-132	Bearing cone removal tools	6-106
6-133	Removing bearing cage	6-108
6-134	Removing outer race and roller assembly	6-109
6-135	Removing retaining nut	6-109
6-136	Installing sprocket shaft	6-110
6-137	Dimensions with sprocket shaft properly installed	6-111
6-138	Installing retaining nut lockpins	6-111
6-139	Preparing to remove final drive pinion	6-111
6-140	Removing final drive pinion gear	6-111
6-141	Installing final drive pinion gear	6-112
6-142	Preparing to remove pinion flange	6-112
6-143	Removing pinion flange	6-113
6-144	Removing outer race and roller assembly	6-113
6-145	Installing pinion flange	6-114
6-146	Adjusting final drive bearings	6-114
6-147	Aligning track roller frame with sprocket	6-116
6-148	Brake pedal and support assembly, removal and installation	6-118
7-1	Tractor roller frame group	7-1
7-2	Track pin and bushing cutaway	7-2
7-3	Preparing to separate tracks	7-2
7-4	Relief valve and fill valve	7-3
7-5	Master pin removal group	7-3
7-6	Track seal washers and spacers	7-4
7-7	Installing seal washers and spacers	7-4
7-8	Preparing to remove carrier rollers	7-5
7-9	Removing nut	7-6
7-10	Removing metal float ring seals	7-6
7-11	Removing bearings	7-6
7-12	Assembling carrier roller	7-7
7-13	Track roller disassembly	7-8
7-14	Bushing assembly removal	7-8
7-15	Bushing assembly	7-8
7-16	Assembling track roller	7-9
7-17	Preparing to remove guide plate	7-10
7-18	Preparing to remove idler	7-10
7-19	Front idler disassembly	7-11
7-20	Idler bearing in low position	7-12
7-21	Repositioning bearings	7-12

<i>N u m b e r</i>	<i>T i t l e</i>	<i>P a g e</i>
7-22	Preparing to remove yoke assembly	7-12
7-23	Idler recoil rod alignment	7-12
7-24	Aligning idler with track rollers	7-13
7-25	Removing guards	7-14
7-26	Removing tension from recoil spring stops	7-14
7-27	Removing recoil spring stops	7-14
7-28	Recoil recoil spring assembly	7-15
7-29	A s s e m b l i n g r e c o i l a s s e m b l y	7-15
7-30	Spring bolt guide pin.	7-16
7-31	Installing seal and ring.	7-16
7-32	Preparing to remove cylinder.	7-16
7-33	Removing seal and ring	7-16
7-34	C y l i n d e r a s s e m b l y	7-17
7-35	Relief valve and fill valve	7-17
7-30	Preparing to remove support assembly	7-18
7-37	Removing outer bearing cap	7-18
7-38	Removing diagonal brace bearing cap	7-19
7-39	Removing track roller frame	7-19
7-40	Bearing cap assembly	7-19
FO-1	Hydraulic flow schematic diagram	FO-1

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual contains instructions for the use of direct and general support maintenance personnel maintaining the Caterpillar Model D-7F Tractor as allocated by the Maintenance Allocation Chart. It provides information on the maintenance of the equipment which is beyond the scope of tools, equipment, personnel, or supplies normally available to organizational level maintenance personnel.

1-2. Maintenance Forms and Records

Maintenance forms, records and reports which are to be used by maintenance personnel at all

maintenance levels are listed in and prescribed by TM 38-750.

1-3. Reporting of Errors

Reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN : AMSME-MPP, 4300 Goodfellow Blvd., St. Louis, Missouri 63120.

Section II. DESCRIPTION AND DATA

1-4. Description

A general description of the Model D-7F tractor and plates is contained in TM 5-2410-233-10. A more detailed description of specific components and assemblies is contained in the applicable sections of this manual. Detailed descriptions of the components of the Model D-7F tractor are provided in the applicable maintenance paragraphs of this manual.

1-5. Differences Between Models

This manual covers only the Caterpillar Model D7F Tractor. No known differences exist for the Model covered by this manual.

1-6. Tabulated Data

a. Identification. The major identification plates of the tractor are described in TM 5-2410-233-20.

b. Nut and Bolt Torque Data. Tables 1-1 and 1-2 list the standard and specific nut and bolt torque data for the D7-F tractor.

c. Repair and Replacement Standards. Tables 1-3, 1-4, and 1-5 list manufacturer's dimensions, tolerances, clearances, and the maximum allowable wear clearance.

d. Electrical System Schematic Diagram. Figure 1-1 shows the schematic wiring diagram for this tractor.

e. Hydraulic System Circuit Diagram. FO-1 (Located in back of manual) shows the hydraulic flow schematic diagram for this tractor.