



Operation and Maintenance Manual

D-Series, D2-Series Compact Track Loaders (CTL), Multi-Terrain Loaders (MTL), and Skid Steer Loaders (SSL)

HRD 1-UP (226D)	HMR 1-UP (246D)	RE5 1-UP (262D)	A9Z 1-UP (289D)
HR6 1-UP (226D)	JSL 1-UP (246D)	B5W 1-UP (272D)	WE5 1-UP (289D)
DPR 1-UP (232D)	PN5 1-UP (246D)	ETL 1-UP (272D XHP)	BE7 1-UP (297D)
KXC 1-UP (232D)	GWR 1-UP (249D)	BL2 1-UP (272D2)	HP7 1-UP (297D XHP)
EH2 1-UP (232D)	AH9 1-UP (249D)	MD2 1-UP (272D2 XHP)	BL7 1-UP (297D2)
BGZ 1-UP (236D)	D9E 1-UP (249D)	FMT 1-UP (277D)	HP2 1-UP (297D2 XHP)
MPW 1-UP (236D)	EZW 1-UP (257D)	MLT 1-UP (277D)	GTC 1-UP (299D)
SEN 1-UP (236D)	EML 1-UP (257D)	NTL 1-UP (277D)	JST 1-UP (299D HXP)
K2D 1-UP (236D)	FMR 1-UP (257D)	GTL 1-UP (279D)	FD2 1-UP (299D2)
BL9 1-UP (239D)	D5T 1-UP (257D)	PPT 1-UP (279D)	DX2 1-UP (299D2 XHP)
CD4 1-UP (239D)	FTL 1-UP (259D)	RCX 1-UP (279D)	BY4 1-UP (299D2)
T9S 1-UP (239D)	GTK 1-UP (259D)	TP5 1-UP (279D)	DX9 1-UP (299D2 XHP)
DZT 1-UP (242D)	FTK 1-UP (259D)	HMT 1-UP (287D)	HLM 1-UP (299D2 XHP)
A9W 1-UP (242D)	LW5 1-UP (259D)	STK 1-UP (287D)	
DML 1-UP (242D)	AJ7 1-UP (262D)	TLK 1-UP (287D)	
HFB 1-UP (242D)	DTB 1-UP (262D)	KB9 1-UP (289D)	
MKT 1-UP (246D)	KTS 1-UP (262D)	TAW 1-UP (289D)	
BYF 1-UP (246D)	LST 1-UP (262D)	WCT 1-UP (289D)	

Language: Original Instructions



Scan to find and purchase genuine Cat® parts and related service information.



Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards, including human factors that can affect safety. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you verify that you are authorized to perform this work, and have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

A non-exhaustive list of operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. You must not use this product in any manner different from that considered by this manual without first satisfying yourself that you have considered all safety rules and precautions applicable to the operation of the product in the location of use, including site-specific rules and precautions applicable to the worksite. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that you are authorized to perform this work, and that the product will not be damaged or become unsafe by the operation, lubrication, maintenance or repair procedures that you intend to use.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Cat dealers have the most current information available.

NOTICE

When replacement parts are required for this product Caterpillar recommends using original Caterpillar® replacement parts.

Other parts may not meet certain original equipment specifications.

When replacement parts are installed, the machine owner/user should ensure that the machine remains in compliance with all applicable requirements.

In the United States, the maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual of the owner's choosing.

Table of Contents

Foreword	5	Slope Operation	55
Safety Section		Equipment Lowering with Engine Stopped	55
Safety Messages (Only Japanese market)	7	Sound Information and Vibration Information ..	56
Safety Messages	12	Guards (Operator Protection)	61
Additional Messages	30	Product Information Section	
General Hazard Information (Only Japanese market)	36	General Information	63
General Hazard Information	36	Identification Information	148
Crushing Prevention and Cutting Prevention ..	39	Operation Section	
Burn Prevention	40	Before Operation	166
Fire Prevention and Explosion Prevention	41	Machine Operation	168
Fire Safety	44	Engine Starting	219
Fire Extinguisher Location	45	Operation	223
Electrical Storm Injury Prevention	46	Parking	242
Before Starting Engine	46	Transportation Information	246
Restricted Visibility	46	Towing Information	257
Visibility Information	47	Engine Starting (Alternate Methods)	259
Engine Starting	48	Maintenance Section	
Before Operation	48	Maintenance Access	262
Operation	48	Lubricant Viscosities and Refill Capacities ...	270
Engine Stopping	52	Maintenance Support	280
High Pressure Fuel Lines	52	Maintenance Interval Schedule	284
Work Tools	54	Warranty Section	
Demolition	54	Warranty Information	397
Parking	54	Reference Information Section	
		Reference Materials	398
		Index Section	