CAT® Lift Trucks

Service Manual

Chassis, Mast & Options

DP60	T20C-10001-up
DP70	T20C-60001-up

For use with the S6S Engine Service Manual. 99709-86140

MidWestTech | Caterpillar DP60, DP70 Forklift Service Manual | Publication 99709-86140 Order the manual at mid-west-tech.com >

GENERAL INFORMATION

1. Model View 1-2

2. Truck Models Covered 1-2

3. Serial Number Locations 1-3

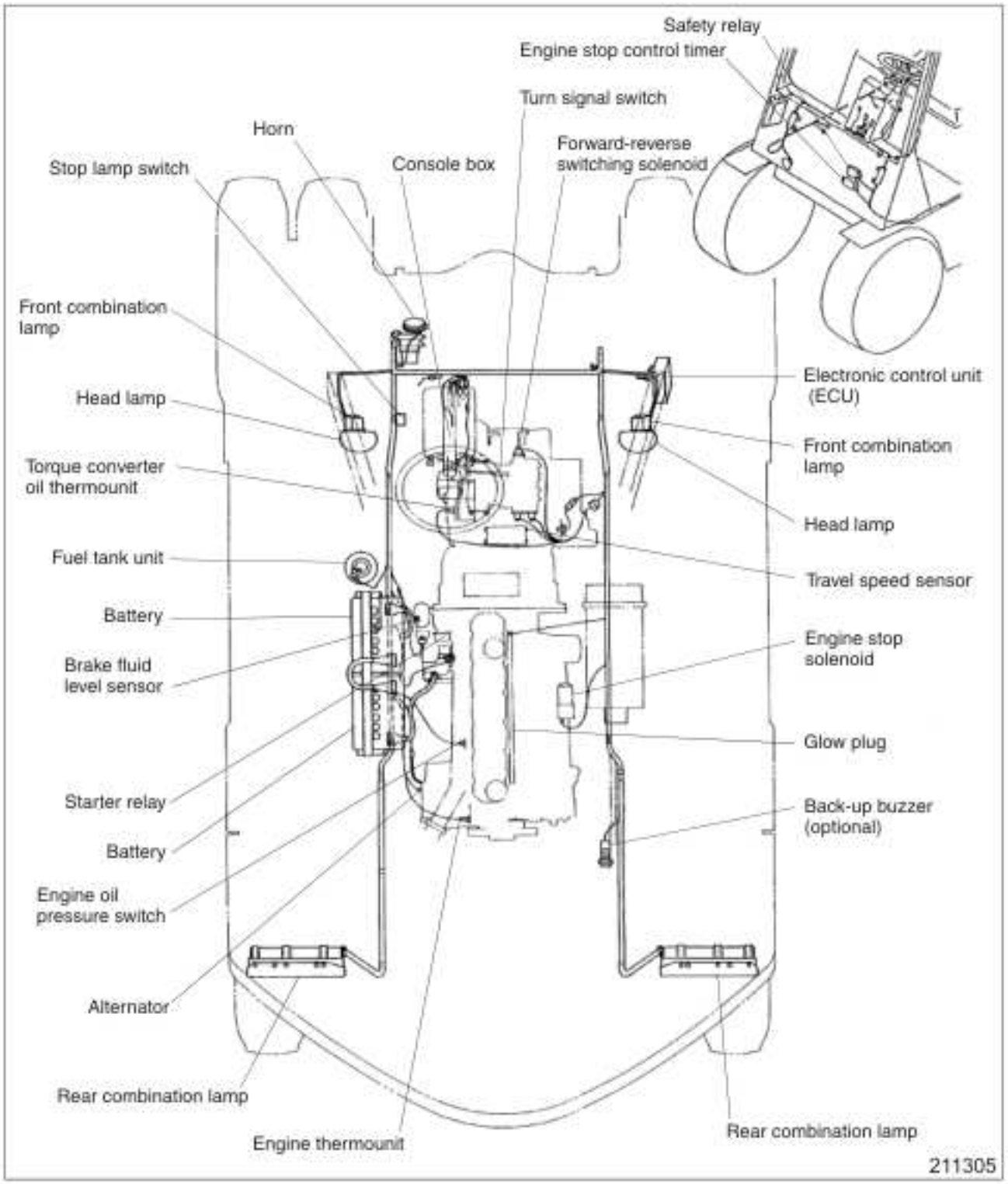
4. Main specifications 1-4

5. Chassis and Mast Model Identification 1-5

6. Dimensions 1-6

MidWestTech | Caterpillar DP60, DP70 Forklift Service Manual | Publication 99709-86... Order the manual at mid-west-tech.com >

2. Location of Components



NOTE

Every harness should be properly retained to avoid it from being interfered or rubbed by other parts. Repair a damaged harnesses with vinyl tape.

MidWestTech | Caterpillar DP60, DP70 Forklift Service Manual | Publication 99709-86... Order the manual at mid-west-tech.com >

7. Troubleshooting

Hydraulic tank	Hydraulic tank heats excessively	• Not enough oil	• Refill.
		• Inappropriate oil viscosity	• Refer to the "List of Applicable Lubricant", and replace.
		• Operating conditions are hard and over-loaded.	• Check the working conditions, and if over-loaded, urge the operator to stay within the load limit
		• Local overheating of oil line due to a large restriction to flow	• Clean oil line.
		• Relief valve adjustment improper	• Adjust pressure setting.
		• Hydraulic pump worn	• Replace pump.
		• Outlet-side line flattened or restriction to flow	• Repair or replace.
		• Clogging of oil cooler	• Clean
	Cylinders move too slow	• Shortage of oil due to a natural loss	• Refer to the "List of Applicable Lubricant", and add oil.
		• Oil leakage due to damaged oil line, seal, etc.	• Repair or replace.
		• Oil viscosity is too high	• Refer to the "List of Applicable Lubricant", and change oil.

MidWestTech | Caterpillar DP60, DP70 Forklift Service Manual | Publication 99709-86... Order the manual at mid-west-tech.com >

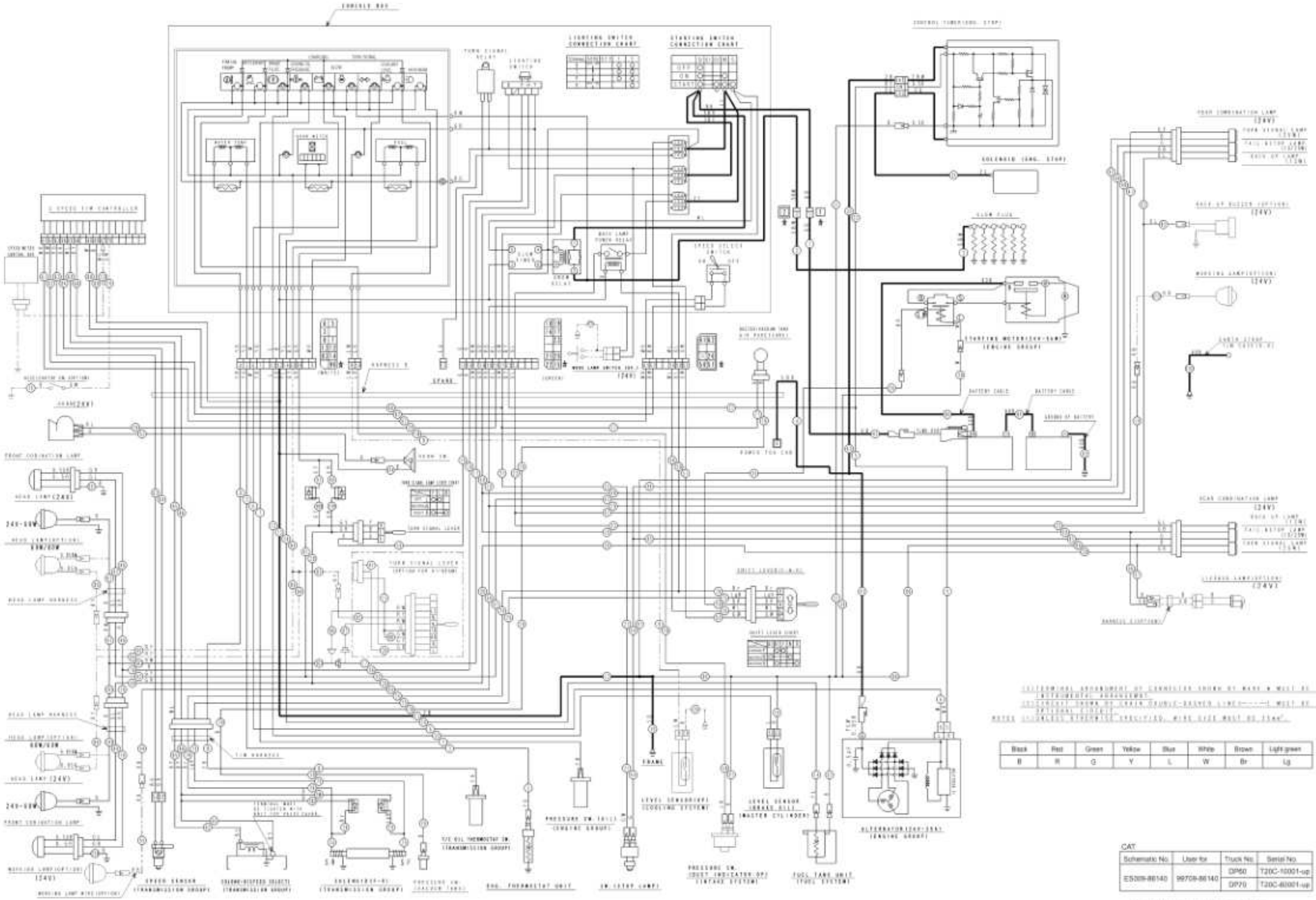
1. Applicable Attachment Models

Attachment model	Truck Models Covered	Applicable mast model	Mast piping
4MP70BVH (hand-operated) 4HP70BVH (hydraulic)	DP60	4V70C	Inner
4MP70BVH (hand-operated) 4HP70BVH (hydraulic)	DP70	4V70C	Inner

2. Specifications

Attachment model	4MP70BVH (hand-operated)	4HP70BVH (hydraulic)
Positioner cylinder stroke (in each of right and left directions)	–	640 mm (25.2 in.)
Loading center	600 mm (23.6 in)	
Free lift	205 mm (8.0 in.)	
Outside fork spread (maximum)	1600 mm (63.0 in.)	1595 mm (62.8 in.)
Outside fork spread (minimum)	300 mm (11.8 in.)	315 mm (12.4 in.)
Mast tilt angle (forward - backward)	6° to 12°	
Fork length (width × thickness) *Standard specification	1220 mm (48.1 in.) [150 mm (5.9 in.) × 65 mm (2.6 in.)]	
Front overhang	590 mm (23.3 in.)	
Attachment weight *Including standard fork.	300 kg (661 lb)	350 kg (772 lb)

MidWestTech | Caterpillar DP60, DP70 Forklift Service Manual | Publication 99709-86... Order the manual at mid-west-tech.com >



Pub.No.99709-86140
3-19

Order the manual at mid-west-tech.com >