PART No. EM18F – EN1 –1

Operator's Manual

EX1200-5D

Excavator

Serial No. 003001 and up

HITACHI

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PILOT CONTROL SHUT-OFF LEVER

Pilot control shut-off lever (1) functions to prevent misoperation of the machine from occurring if the control levers are accidentally moved when leaving the operator's seat or when entering the cab.

CAUTION:

- **Always pull pilot control shut-off lever (1) into the full LOCK position. The pilot control shut-off function will not be activated otherwise.**
- **When leaving the machine:**
  - **Stop the engine.**
  - **Then, pull the pilot control shut-off lever up to the LOCK position.**
- **Always check to be sure that the pilot control lever is pulled up to the LOCK position before:**
  - **Transporting the machine.**
  - **Leaving the machine at the end of the shift.**

Pilot Control Shut-Off Lever Operation

Before Leaving the Machine:

1. Park the machine on a firm, level surface. Lower the bucket to the ground. Return all control levers to neutral. Properly shut down the engine.
2. Pull pilot control shut-off lever (1) up into the full LOCK position.

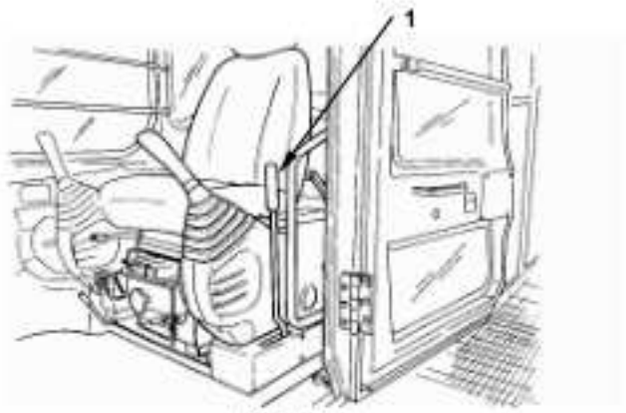
Before Starting Operation:

1. Confirm that pilot control shut-off lever (1) is pulled up to the LOCK position.

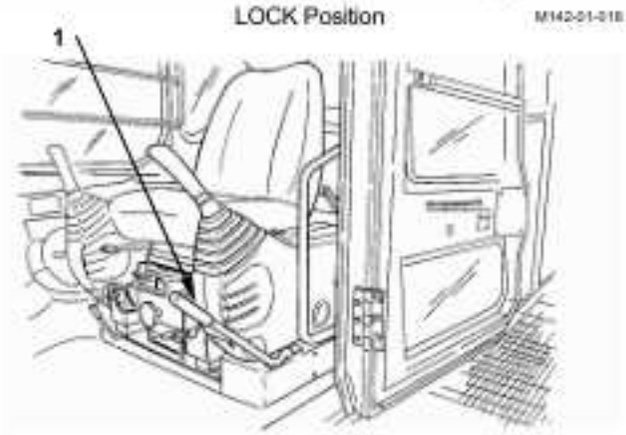
After starting the engine:

1. Confirm that all control levers and pedals are in neutral and that no part of the machine is in motion.
2. Lower pilot control shut-off lever (1) to the UNLOCK position.

If any part of the machine (any actuator) moves when the pilot control shut-off lever is lowered to the UNLOCK position despite the fact that all controls are placed in neutral, the machine is malfuntioning. Immediately pull the pilot control shut-off lever back to the LOCK position, and stop the engine. Then, see your authorized dealer.



LOCK Position M142-01-018



UNLOCK Position M142-05-001

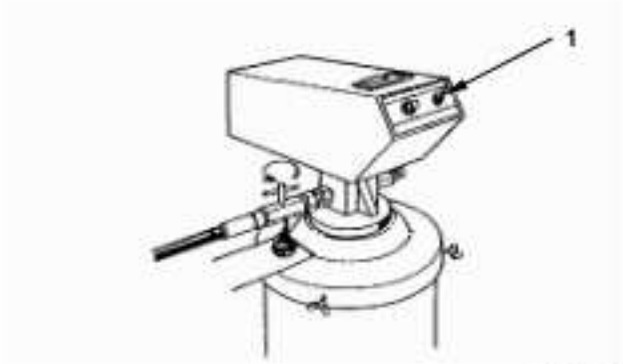
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6 Auto-Lubrication System

The machine is equipped with an optional lubrication system which automatically greases the front joint pins.

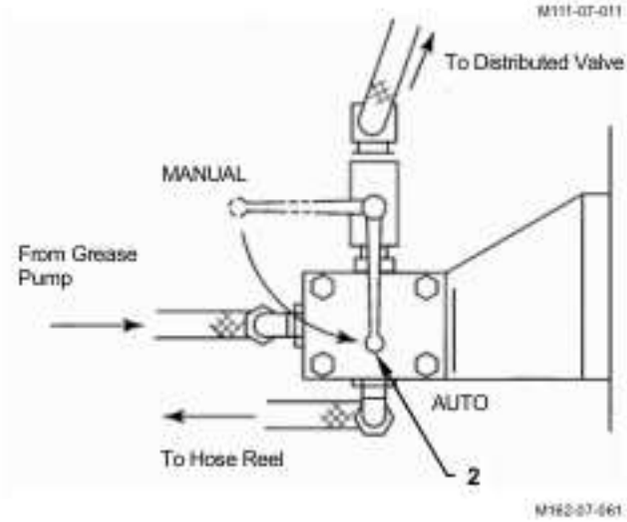
NOTE: Automatic greasing is not applied to the backhoe bucket pins and swing bearing. Manually grease these fittings. (See "A. GREASING" in the MAINTENANCE section.)

1. Automatic Greasing



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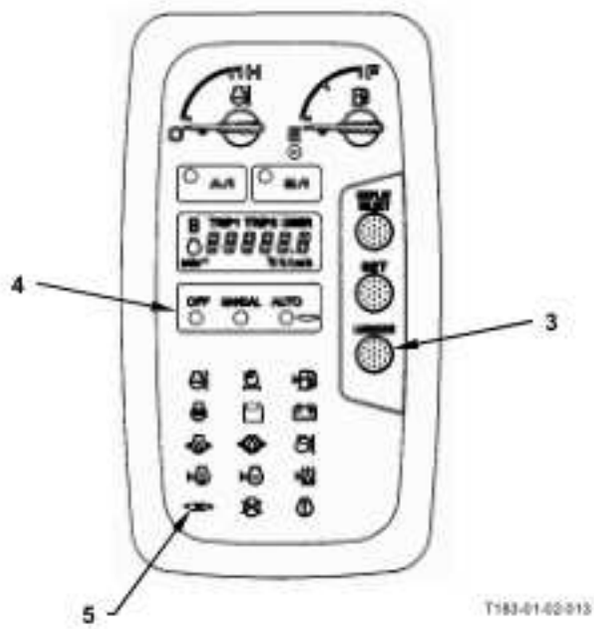
IMPORTANT:
- **The auto lubrication system does not operate unless switch (1) located on the grease pump is turned ON. If the system fails to operate, be sure to check if switch (1) is turned ON.**
- **Confirm that lubrication mode indicator (4) shows AUTO position before turning auto/manual selector valve lever (2) to the AUTO position. If lubrication mode indicator (4) shows MANUAL position, auto lubrication indicator (5), located on the monitor panel, will come on and the lubricator will continuously send grease (for a certain length of time), resulting in overcharging.**



M162-07-061

(1) Pull auto/manual selector valve lever (2), located inside the battery compartment, to the AUTO position.

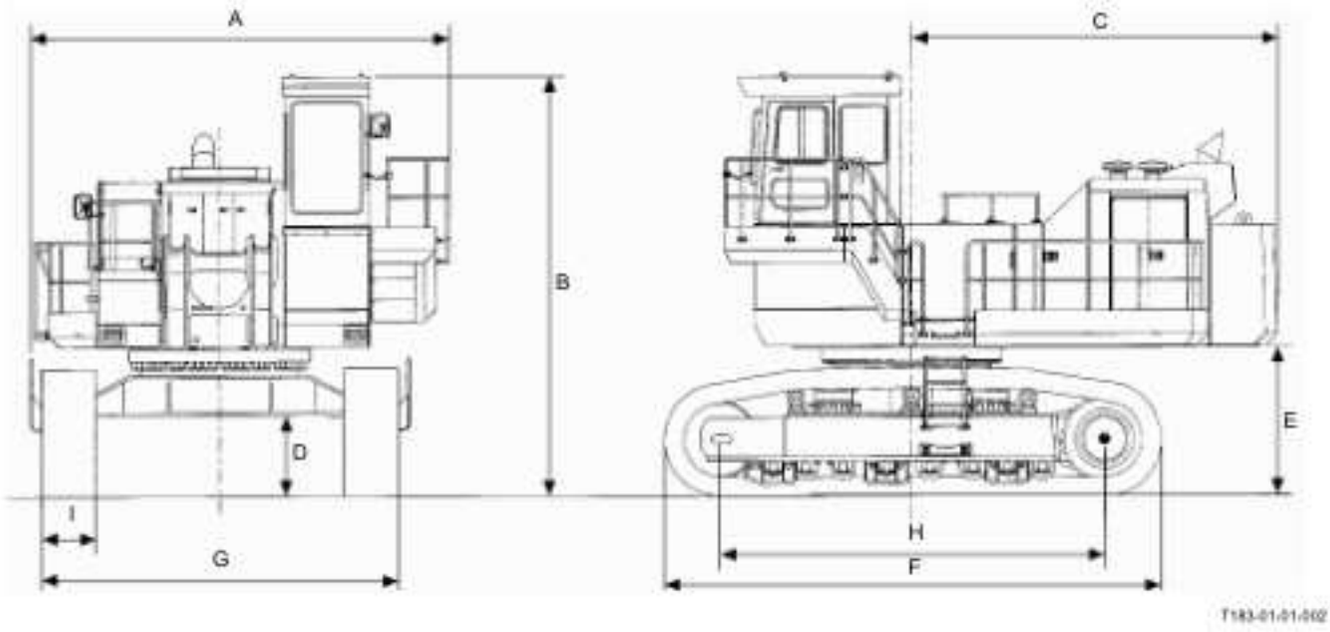
(2) Push lubrication mode switch (3), located on the right console, to the AUTO position.



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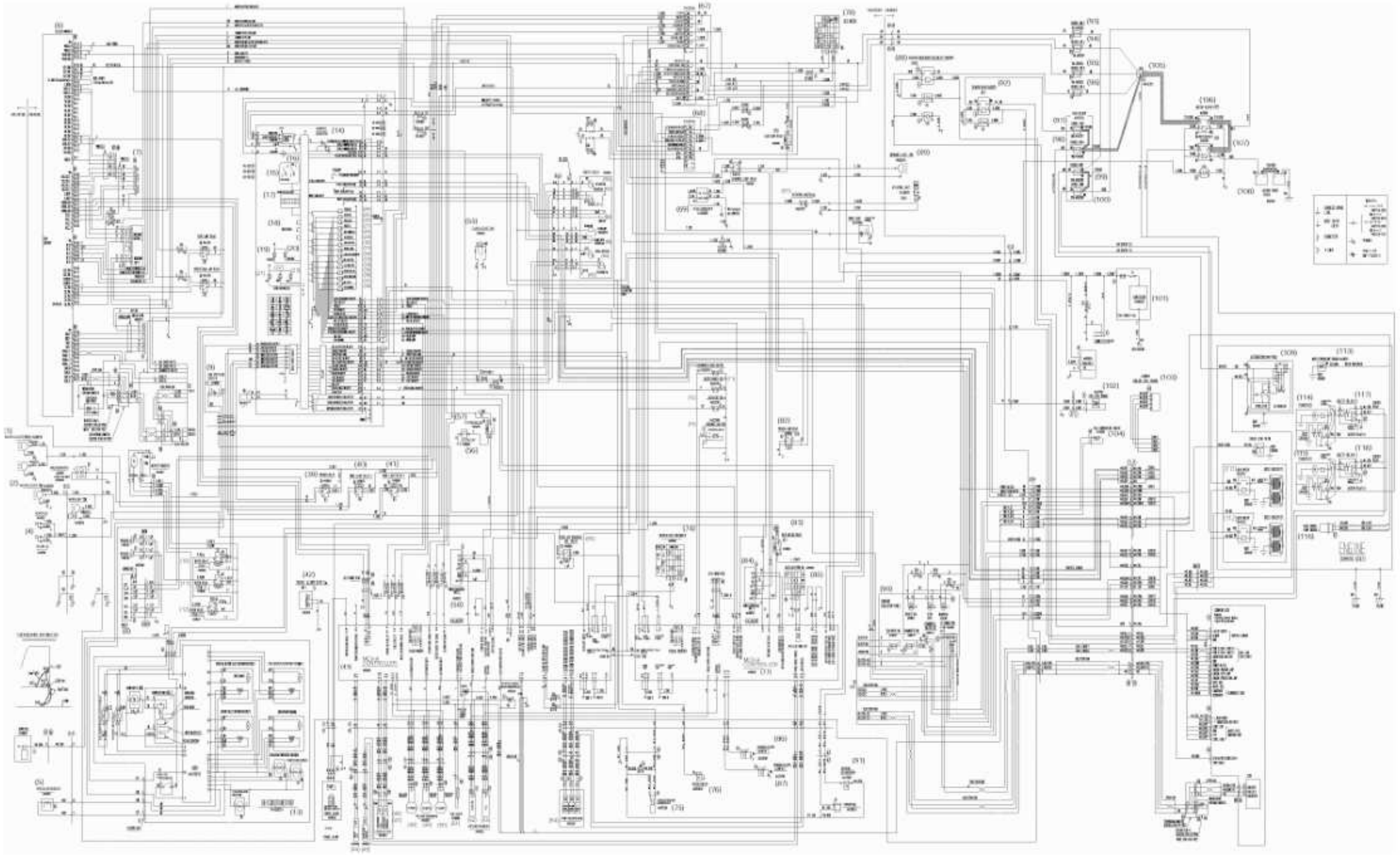


Model	EX1200-5D Hydraulic Excavator
Type of Front-End Attachment	Loading Shovel
Bucket Capacity (Heaped)	PCSA 6.5 m^3 (8.5 yd^3)
Operating Weight	111000 kg (245000 lb)
Base Machine Weight	80900 kg (178400 lb)
Engine	CumminsQSK23 567 kW/1650 min^{-1} (771 PS/1650 rpm)
A: Overall Width	5430 mm (17 ft 10 in)
B: Cab Height	*5410mm (17 ft 9 in)
C: Rear End Swing Radius	4850 mm (15 ft 11 in)
D: Minimum Ground Clearance	990 mm (3 ft 3 in) (Excluding shoe lug)
E: Counterweight Clearance	1790 mm (5 ft 10 in)
F: Undercarriage Length	6410 mm (21 ft 0 in)
G: Undercarriage Width	4610 mm (15 ft 2 in)
H: Sprocket Center to Idler Center	5000 mm (16 ft 5 in)
I: Track Shoe Width	710 mm (28 in) (Grouser shoe)
Ground Pressure	139 kPa (1.42 kgf/cm^2, 20.2 psi)
Swing Speed	5.8 min^{-1} (rpm)
Travel Speed (Fast/Slow)	3.5/2.4 km/h (2.2/1.5 mph)
Gradeability	35° ($\tan\theta = 0.70$)

*NOTE: * The standard specification loading shovel is equipped with an elevated cab.*

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EX1200-5D ELECTRICAL CIRCUIT DIAGRAM



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