

TECNOTER S.r.l.

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Design and production of hydraulic and electronic auxiliary systems •
Design and production of hydraulic upgrading kits • Transformation of
earth moving machines and work tools • Computerized hydraulic
alarm system • Telemetric system • Black box.

Kit: ILCN O Medium pressure Activation: Proportional joystick Rev. 6102 UK UE	Excavator: Cat 345D Version: RAE
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INSTALLATION MANUAL

IMPORTANT:

Some parts are provided already mounted and can be installed as “group”

More than one hose connected on a same port means the presence of an external Tee

Any kit connected to the main controller needs the corresponding computer set up

Refer to SIS for any specification

Attention:

**Be sure to have well understood the installation manual before the activation of the system.
Double check any hydraulic installation before operate the system.**

Attention:

In case of local laws or restrictions were applicable on the use of this upgrade kit, the operator must strictly observe them

Danger:

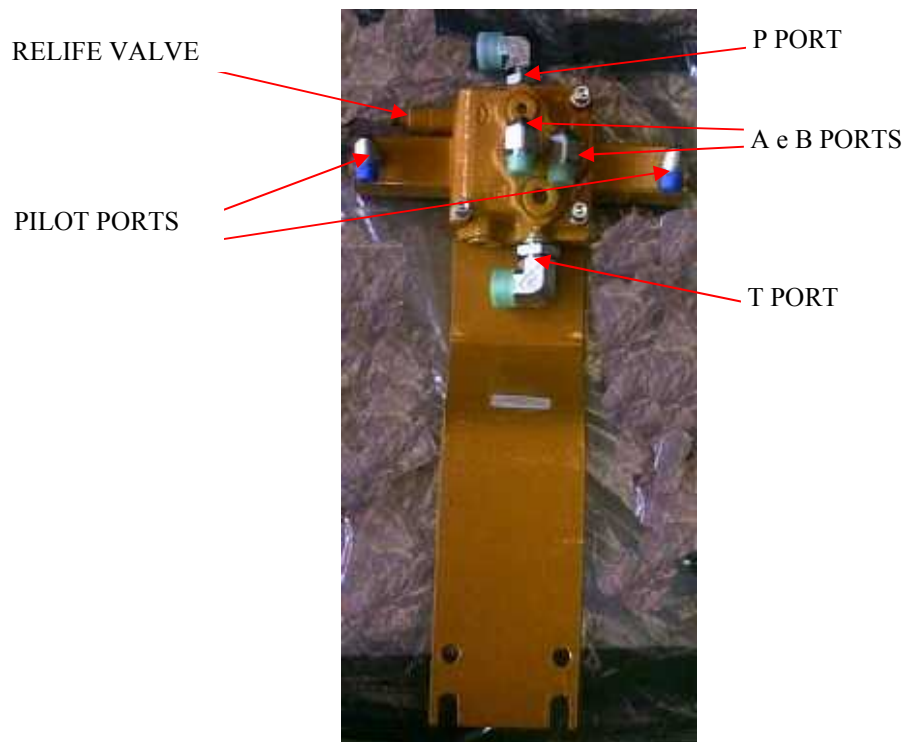
To avoid personal injuries preventing damages, keep free the area around the machine for at least 20 mt from the operator

INSTALLATION PROCEDURE

CAUTION:

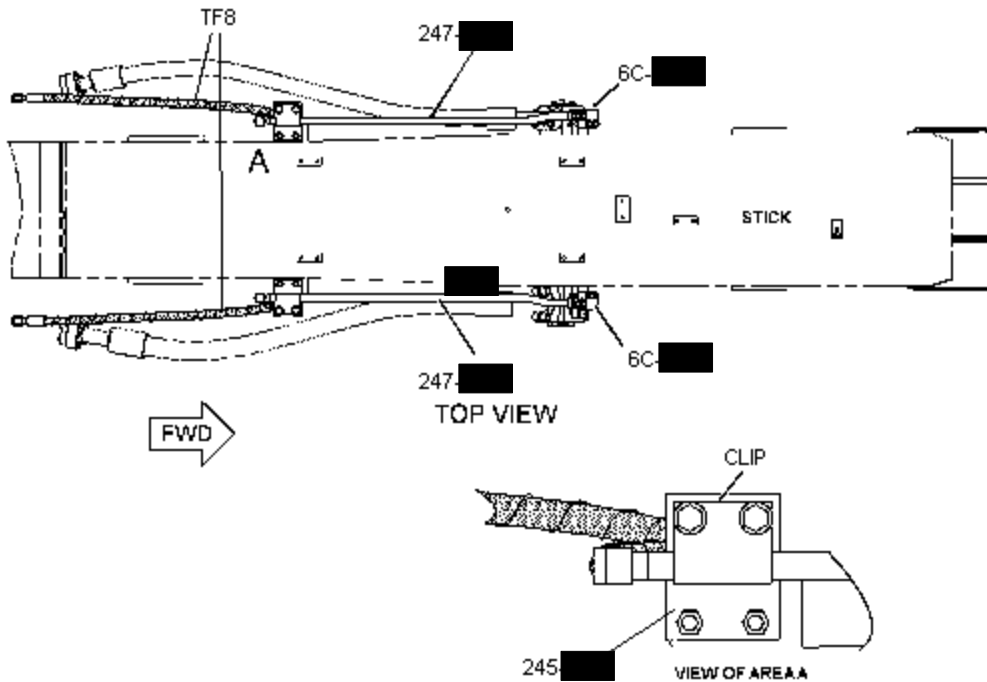
Before any other operation, unload the pressure relief register present on the MP control valve supplied with the kit.

Without this operation, the gear pump may explode at the start of the engine causing serious injuries



STICK

1. Install the blocks 6C- [REDACTED] on the holders present on the stick as shown in the figure.
2. Install on the stick the supports 245- [REDACTED].
3. Connect the right block 6C- [REDACTED] at the tube 247- [REDACTED] installing the clips on the support 245- [REDACTED].
4. Connect the left block 6C- [REDACTED] at the tube 247-9381 installing the clips on the support 245- [REDACTED].
5. Connect the hoses TF8 at the tubes on the stick.



BOOM AREA A

1. Install the blocks with 132- [REDACTED] with support 237- [REDACTED] and clips.
2. Fit the tubes 277- [REDACTED] using the provided clips.
3. Install the block 193- [REDACTED] with support 187- [REDACTED] and clips following the figure.

BOOM AREA B

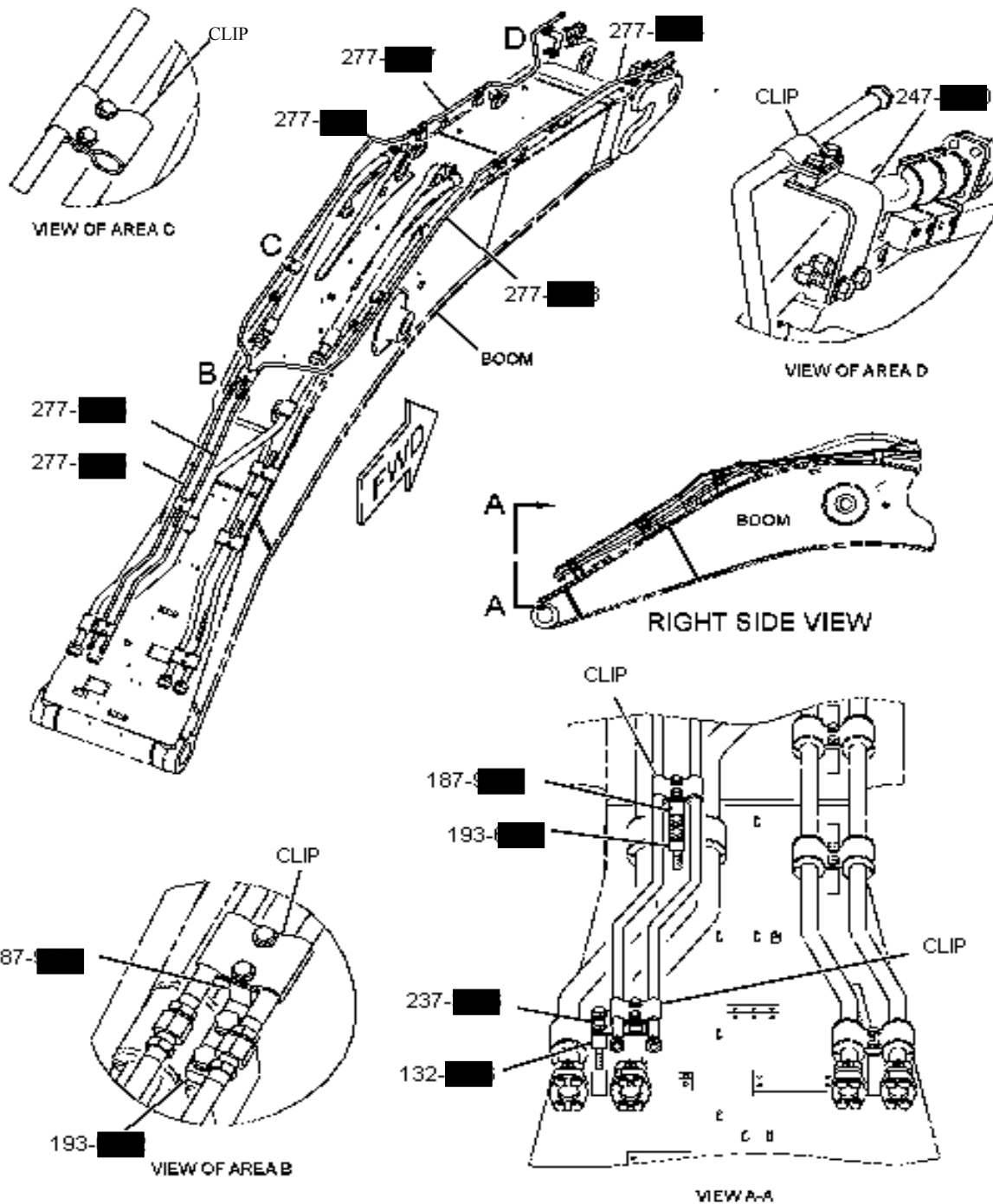
4. Install the block 193- [REDACTED] with support 187- [REDACTED] and clips.

BOOM AREA C

5. Install the double clips on the tubes already present on the boom then fix the hoses 277- [REDACTED] (left side) and the hoses 277- [REDACTED] (right side).
6. Connect the tubes 277- [REDACTED] and 277- [REDACTED] then the tubes 277- [REDACTED] and 277- [REDACTED].

BOOM AREA D

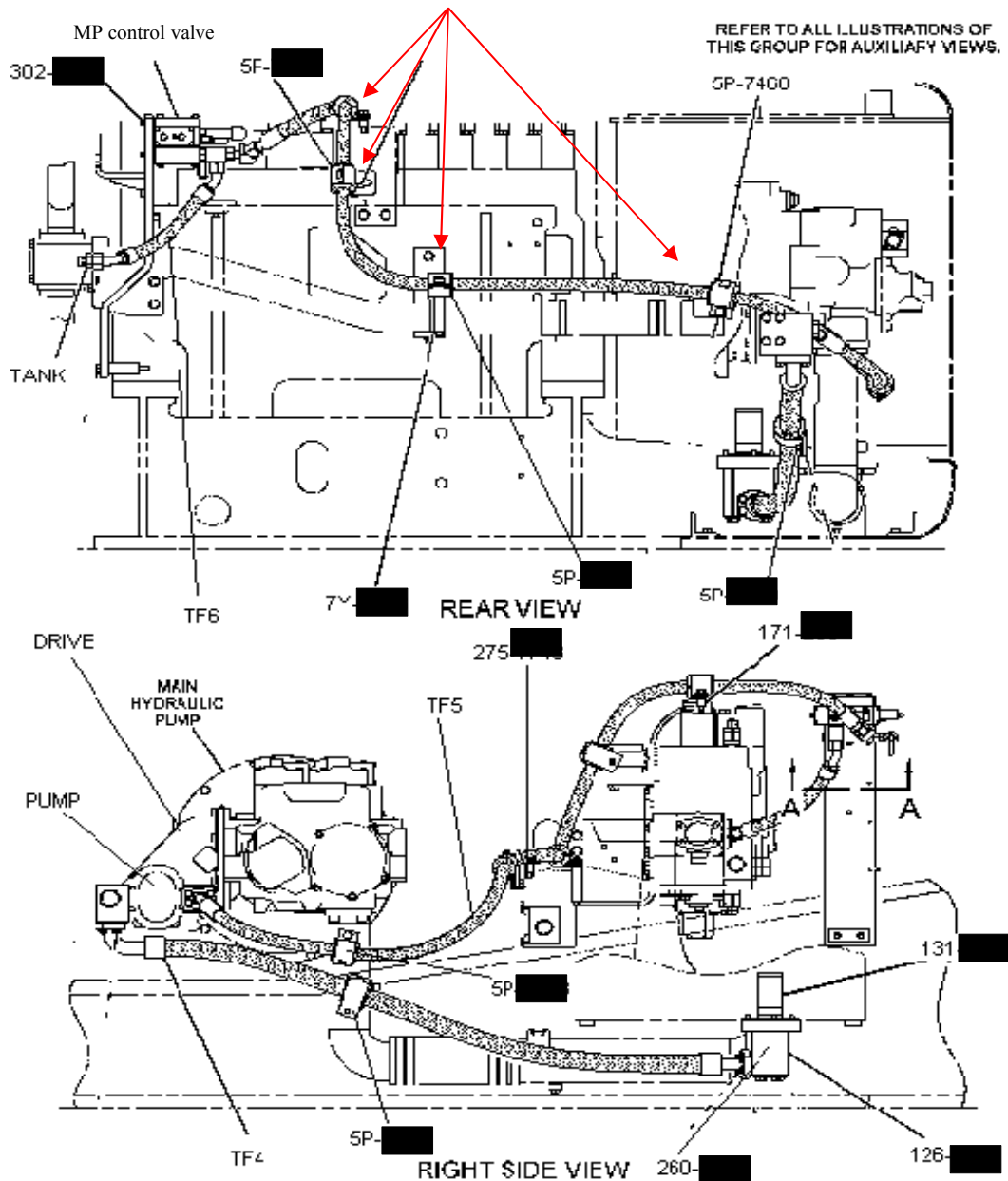
7. Install at the end of the boom the supports 247- [REDACTED] with clips.
8. Fit the tube 277- [REDACTED] (right side) and the tube 277- [REDACTED] (left side).



FRONT LINE

- 9 Empty the hydraulic tank.
- 10 Install on the frame, where indicated, the MP control valve with the support 302-█████.
- 11 Unplug the indicated place on the left of main pump then install the drive.
- 12 Install the pump on the drive.
- 13 Unplug the lower side of the tank and install the screen 131-█████ the spacer 126-█████ and the block 260-█████.
- 14 Connect the screen to the inlet port of the pump using the hose TF4 and fixing it as shown using the clips 5P-█████
- 15 Install the support 7Y-█████ rear the main control valve.
- 16 Using the hose TF5, connect the outlet post of the gear pump to the "P" port of the MP control valve.
- 17 Fix the hose TF5 using the clips 5P-█████
- 18 Using the hoses TF7, connect the ports "A" and "B" of the MP control valve to the hoses 277-█████.

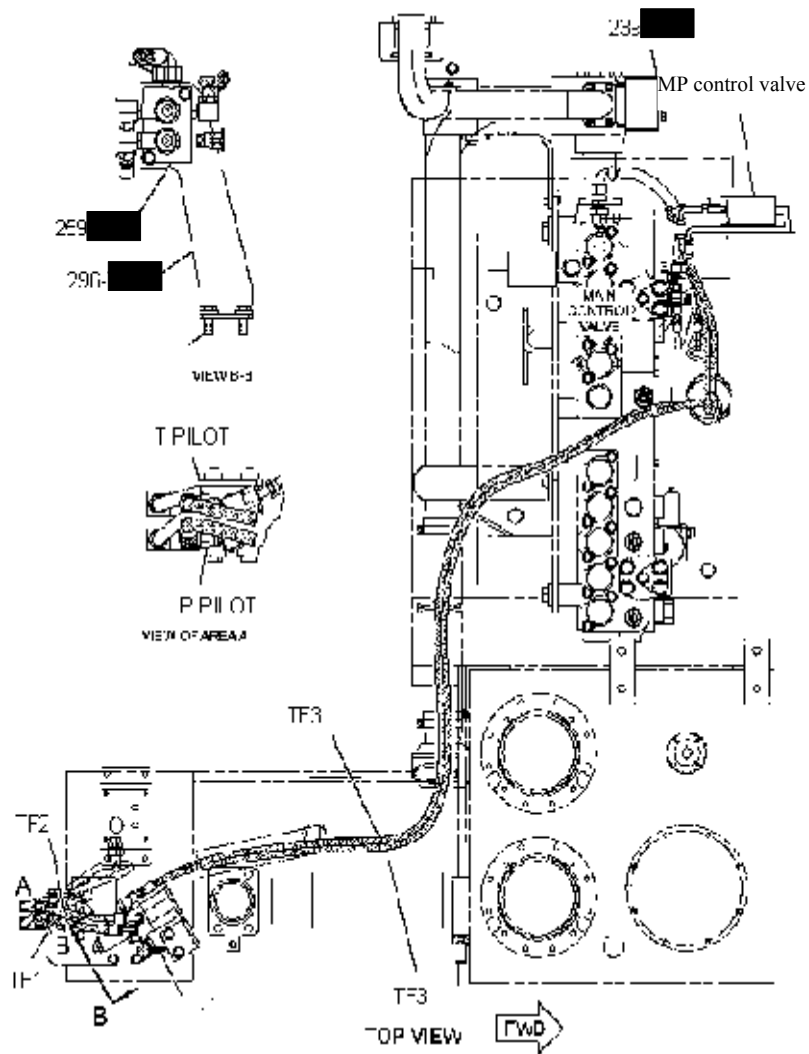
Fixing point of TF5



- 19 Unplug the return hose of the main control valve then fit the block 239-XXXX
- 20 Using the hose TF6, connect the nipples "TANK" (on the block 239-XXXX) to the "T" port of the MP control valve.

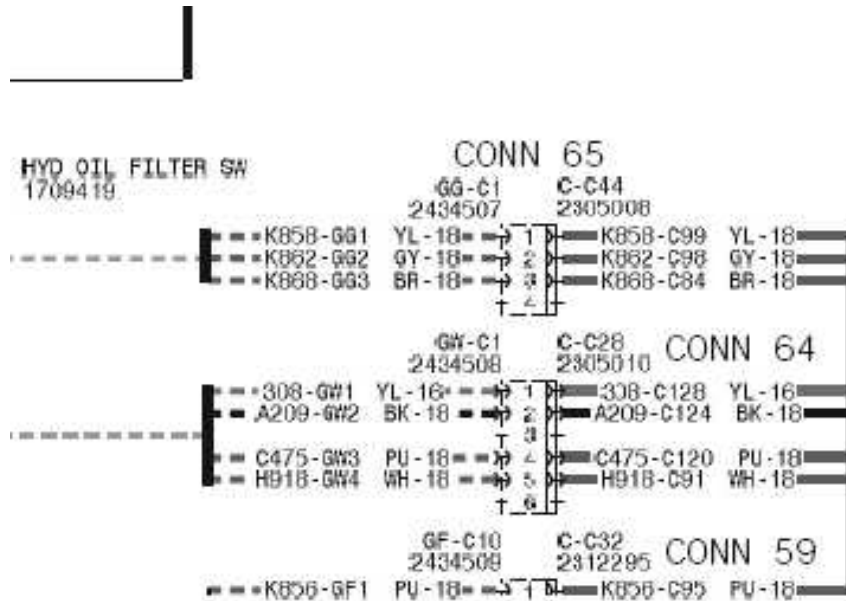
PILOTS

- 21 Install the support 296-XXXX with valves 259-XXXX near the pumps as shown.
- 22 Locate the pilot manifold.
- 23 Unplug the P and T port of the pilot manifold.
- 24 Install the nipples P MANIFOLD and T MANIFOLD.
- 25 Connect the "P" port of the valve 259-XXXX to the nipples P MANIFOLD using the hose TF1.
- 26 Connect the "T" port of the valve 259-XXXX to the nipples T MANIFOLD using the hose TF2.
- 27 Using the hoses TF3, connect the ports "A" and "B" of the valve 259-XXXX to the pilots port of the MP control valve.



ELECTRIC CONNECTIONS

- 1 Identify, near the oil cooler, the connector number 65 (medium pressure) with the wires: K [redacted] Yellow, K [redacted] Gray, H [redacted] Brown.
- 2 Unplug the position related to the indicated cables the insert the pin of the cable provided with the kit considering the wire colors (same color means same position).
- 3 Connect the provided cable to the coils of the valve 259-7 [redacted]



COMPUTER SET UP

1. Turn on the master key keeping the engine off.
2. Access the SERVICE section on the control panel and insert the password.
3. Select "Configuration" then set the [redacted] as actual configuration according to your area code (example: [redacted]).
4. Go into the section "Tool installation".
5. Activate the MP function setting the ATCH VAL [redacted] as ATT-[redacted].
6. Confirm the operation.
7. Set the AT [redacted] VALVE TYPE as ELECTRIC.
8. Go into the section CONTROL INST.
9. Set the correct joystick configuration (Thumb wheel if present or, else, four buttons)
10. Set the corresponding A3 extend ed A3 retract function.
11. Calibrate the joystick following the SIS instructions

Refer to SIS instruction for any other specification.