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Display Update

PDC / ECIS

Display Update



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GENERAL INFORMATION

This manual describes how to convert PDC/ECIS consoles with a TFT display that is no longer available to a current TFT display.

These instructions assume fundamental knowledge of mechanical and electrical systems.

Please make certain to follow the precise order of steps in the instructions.

IMPORTANT NOTES

During the conversion, it will be necessary to remove the existing threaded pins with a saw. Make certain to prevent any chips and pieces from sawing from getting into any keyboard module that may be present.

Remove all chips **immediately** with a brush after sawing work is complete!



Make certain to use the assembly material included in the kit!

REQUIREMENTS

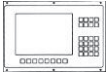
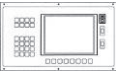



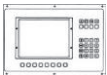
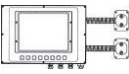
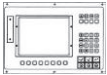



CAUTION

Please check before starting conversion work whether the PDC/ECIS device you are converting is included in the following table.

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Figure	Reference No.	Material No.	Type
	22 001 06 0011	600394	Central device with display
	22 001 06 0013	603554	Central device with display
	22 001 06 0016	603572	Display
	22 001 06 0019	603769	Display
	22 001 06 0022	603914	Central device with display
	22 001 06 0027	604123	Central device with display
	22 001 06 0034	604232	Display
	22 001 06 0038	604580	Display
	22 001 06 0039	604581	Display
	22 001 06 0042	604643	Display

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Requirements

The following tools are required for conversion and are not included in the conversion kit:

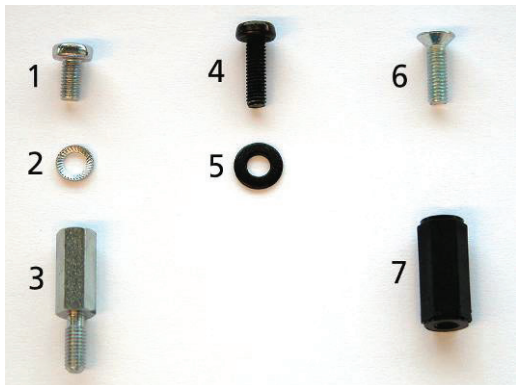
- Screwdriver, Phillips recessed head
- 5-mm and 6-mm hexagon keys
- Small hand saw with metal or universal saw blade
- Drill with 3.5 mm HSS drill bit
- Small brush for removing metal chips

Conversion kit consists of the following parts:

- 1x electronics module
- 1x display, TFT
- 1x flexible foil cable, 31-pin
- 1x anti-glare plexiglass plate

Assembly parts:

- 4x rounded head screws M3 x 6 (1)
- 4x lock washers S3 (2)
- 4x spacing bolts M3 x 12, with threaded pin on one side (3)
- 4x rounded head screws M3 x 10, black (4)
- 4x washers 3.2, black (5)
- 4x counter sunk screws M3 x 10 (6)
- 4x spacing bolts M3 x 15, black (7)
- 1x tube of silicone adhesive 744 or 737 (not shown)



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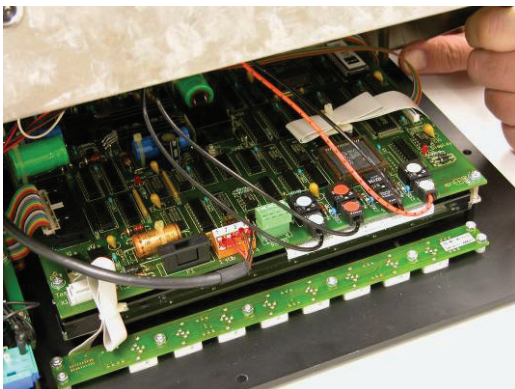
This section describes all required tasks step by step based on a sample console.



- *Using a Phillips screwdriver, unscrew the 4 screws on the tube.*



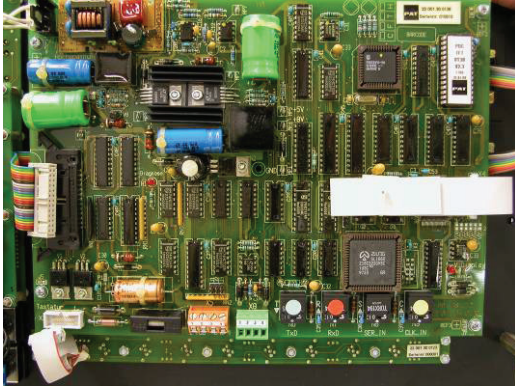
- *Remove the tube.*



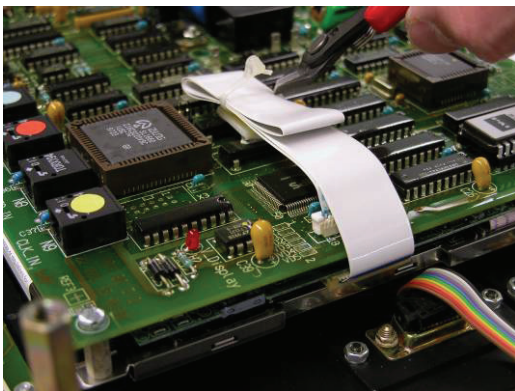
- *Place the console with front on the work table.*
- *Loosen and remove the screws. Then remove the housing cover.*
- *Loosen the screws for the individual wires of the power supply line. Then remove the wires.
Wire colours: 1=rd / 2=or / 3=bn / 4=bl*
- *Remove 4 fibre optical plugs.*

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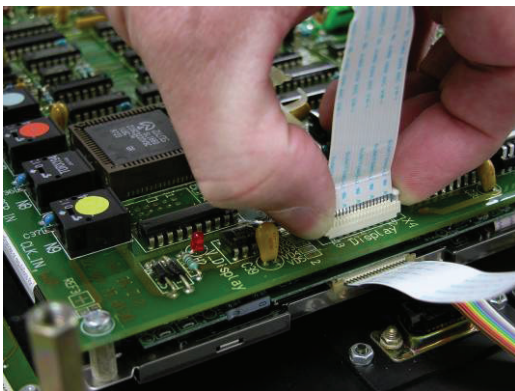
Conversion instructions



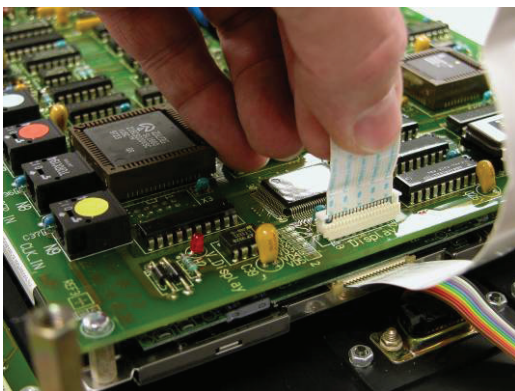
- *Remove the remaining plug connections.*



- *Undo the cable tie on the ribbon cable.*



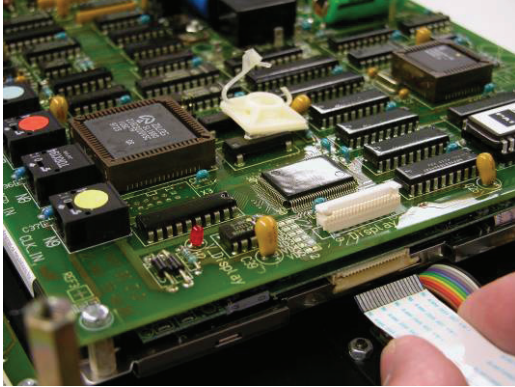
- *Pull the locking frame up.*



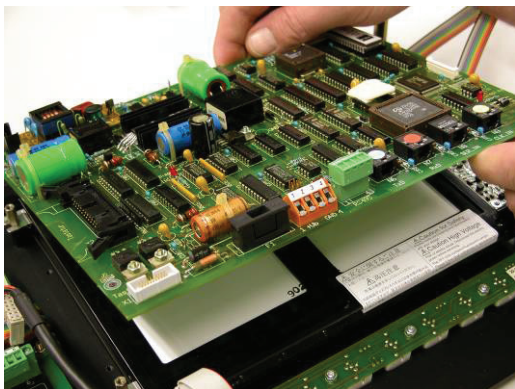
- *Remove the ribbon cable.*

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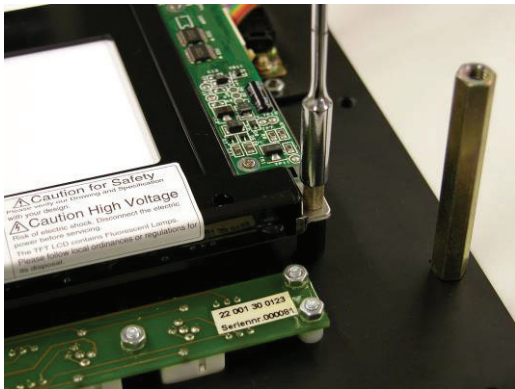
Conversion instructions



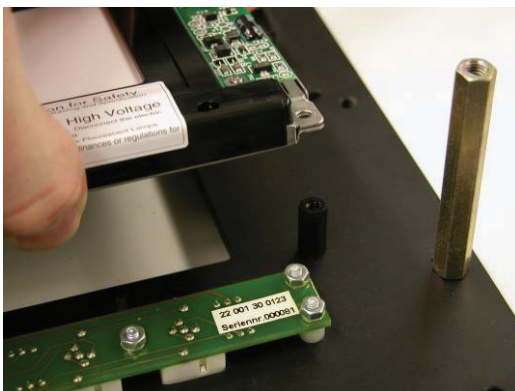
- Loosen the other side of the ribbon cable as well. Then remove the locking frame.



- Loosen the 4 screws and take out the module.



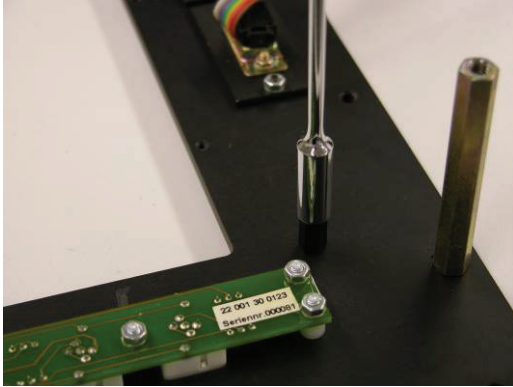
- Using a (5-mm) socket wrench, remove the 4 hexagon bolts.



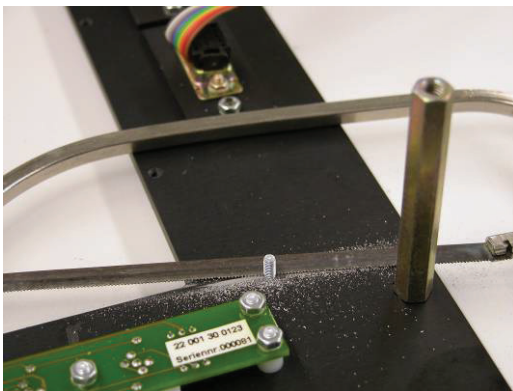
- Remove the display.

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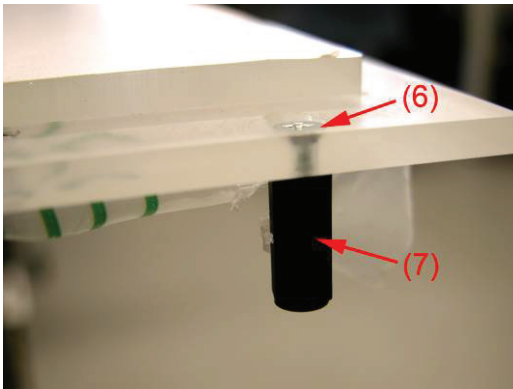
Conversion instructions



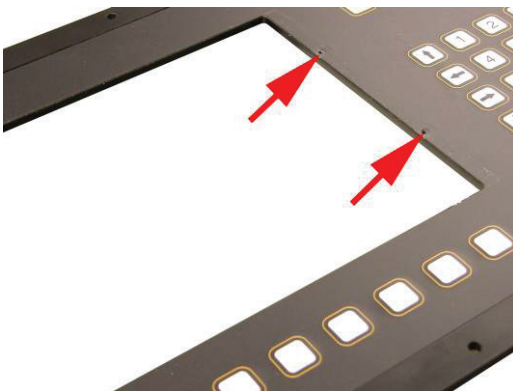
- Remove the 4 spacing bolts with a (5-mm) socket spanner.



- Using a hand saw, saw off the 4 threaded pins as flush as possible against the front plate (max. overhang 1 mm).
- **Make certain to remove all sawing chips completely with a small brush!**



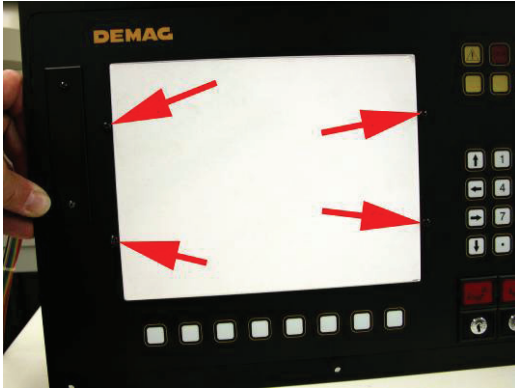
- Prepare the plexiglass plate from the conversion kit with counter sunk screw (6) and spacing bolts, black (7) as shown.



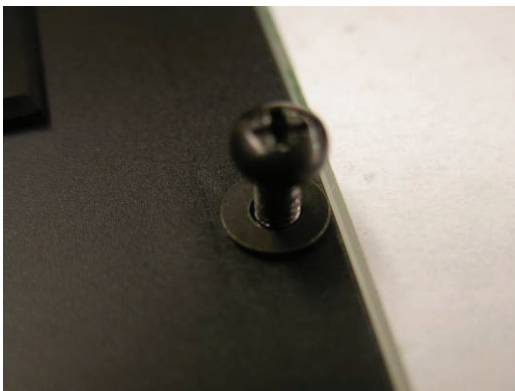
- Drill out the four threadings that are present with a drill and 3.5-mm bit.

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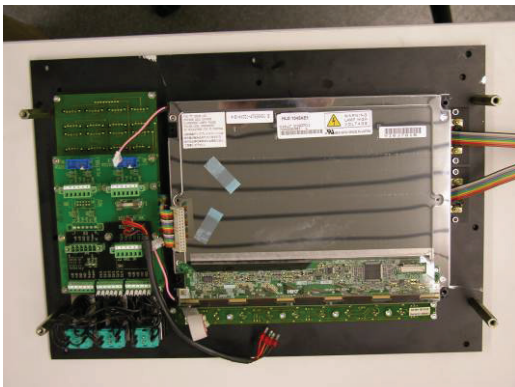
- Set the plexiglass plate in place on the back (with the milling groove on the left) and ...



- ...using the four rounded head screws (4) with washers under them (5) mount on the front.



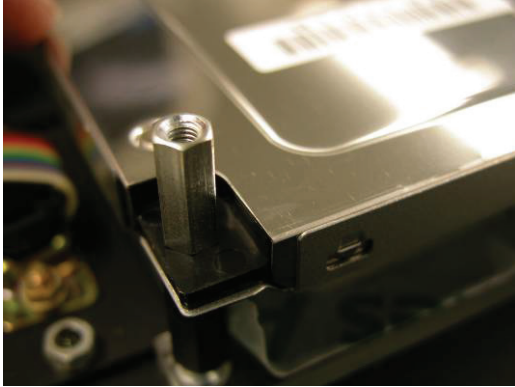
- Remove the protective film from the new display and on the back of the plexiglass.



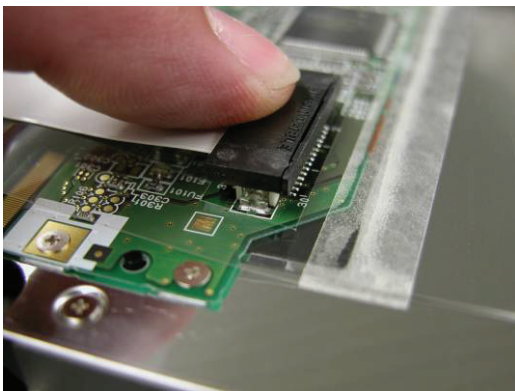
- Set the new display in place on the spacing bolts...

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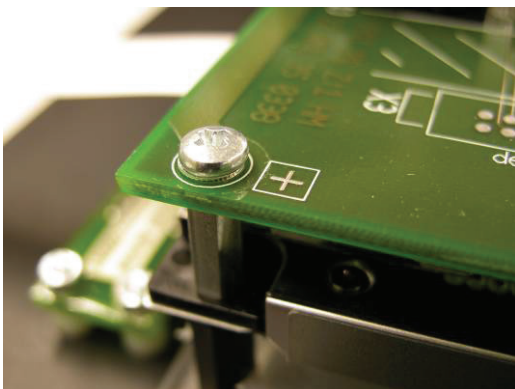
- ...and fasten with four spacing bolts (3).



- Snap the plug of the new flexible foil cable in place on the display motherboard and then secure it with a sufficient amount of silicone adhesive to prevent it from falling out.



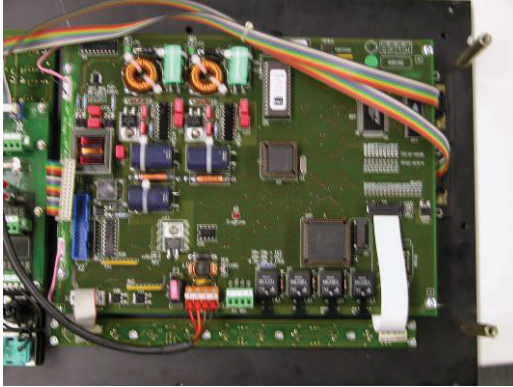
- Place the new electronics module on the bolts as shown



- ...and fasten with four screws (1) and a washer (2) under each.

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Conversion instructions



- Reconnect the remaining plugs in the appropriate positions and lock them into place.
- Reconnect the power supply cable.
Wire colours: 1=rd / 2=or / 3=bn / 4=bl
- Connect the fibre optical plug in the same positions as for the old module.
- Finally, snap the plug of the new flexible foil cable in place on the electronics module and then secure it with a sufficient amount of silicone adhesive to prevent it from falling out.



- Check the connections one more time to ensure they are securely seated.
- Reassemble the housing cover.
- Check the device for functionality.
- After the console is assembled, remove the protective display film on the front.

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