**Repair data package**

**Industrial enhanced-safety radio remote controls**

*UD Series - Level 2*

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**Purpose of repair data package and product intervention sheet**

Subfolder: DOSGEN R35 E00*

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**Battery pack / Voltage adapter UDB-UBC**

Subfolder: DOSGEN R25 E00*

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**Radio transmitter UDE**

Subfolder: DOSGEN R26 E00*

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**Radio receiver UDR**

Subfolder: DOSGEN R27 E00*

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* = Subfolder version
Acknowledgement of receipt of documentation

UD repair data package v.3
Industrial enhanced-safety radio remote control

UD series - level 2 -

Family name: ____________  First name: ____________  Company: ______________

This will acknowledge receipt of the following document(s):

CD-Rom with:

• Purpose of UD repair data package subfolder ref: DOSGENR35 E001 version

• UDB-UBC subfolder ref: DOSGENR25 E003

• UDE subfolder ref: DOSGEN R26 E003

• UDR subfolder ref: DOSGENR27 E003

Date: ________________  Signature: ____________________

Please fill in and return (or fax) to:

JAY électronique, Eric DECHAME - service documentation

Address: 176, rue Lavoisier MONTBONNOT St MARTIN 38334 St ISMIER CEDEX - FRANCE

Tel: +33.(0)4.76.41.44.00  e.mail: doc@jay-electronique.fr

Fax: +33.(0)4.76.41.44.44
LE 23/07/2004 A 17:52:40 EDITION DE DOSSIER DOS011

DOSSIER : DOSGEN R35 E 001
UD REPAIR DATA PACKAGE-GENERAL INF.+INTERV.SHEET

ARTICLE : DOSGEN R35

FOURNISSEUR : 38JA10 JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF
176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 23.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC.RECEPT: 0.00.0000

DOSSIER SOURCE :

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

<table>
<thead>
<tr>
<th>N°ORDRE</th>
<th>DOCUM/OUTIL</th>
<th>ETAT</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SN 350100 00 V</td>
<td>UD REPAIR DATA PACKAGE GENERAL INFORMATION</td>
<td>UD</td>
</tr>
<tr>
<td>02</td>
<td>SN 350110 00 V</td>
<td>HELP TO FILL IN UD INTERVENTION SHEET</td>
<td>UD</td>
</tr>
<tr>
<td>03</td>
<td>SN 350120 00 V</td>
<td>UD INTERVENTION SHEET</td>
<td>UD</td>
</tr>
</tbody>
</table>
Repair Data Package
UD Series

- level 2 -

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1- Purpose of repair data package

You have just received a maintenance data package for a JAY électronique device.

This data package contains all the information you will need to efficiently intervene when performing maintenance on our product. You will also find the necessary information to prepare a repair diagnostic and replace faulty sub-assemblies.

The repair data package is intended for:

- the JAY électronique maintenance department
- Service Stations certified by JAY électronique
- customers trained by JAY électronique.

The contents of this data package are detailed in section 4.

Do not forget to fill in and return the data package acknowledgment of receipt form in order to allow us to register, update and follow-up this data package.

2- Product maintenance process

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>DOCUMENTS</th>
<th>SPECIAL TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fault isolation</td>
<td>Diagnostic sheets</td>
<td>YES</td>
</tr>
<tr>
<td>Product upgrade</td>
<td>Upgrade sheets</td>
<td>NO</td>
</tr>
<tr>
<td>Cost estimate preparation</td>
<td>Intervention sheets (to be filled in)</td>
<td>NO</td>
</tr>
<tr>
<td>Customer approval</td>
<td>Approved estimate</td>
<td>NO</td>
</tr>
<tr>
<td>Replacement of sub-assemblies</td>
<td>Sub-assembly replacement procedure</td>
<td>YES</td>
</tr>
<tr>
<td>Repaired product inspection</td>
<td>Final inspection sheet</td>
<td>YES</td>
</tr>
</tbody>
</table>

3- Product diagnostic sequence to be observed

Products

UDB2+UBC

UDE

UDR

Remarks

- The transmitter must be systematically returned (except where fault is clearly identified to other product(s))
- Request return of receiver when fault is not clearly identified to other products
4- Content and breakdown of repair data package

- The repair data package is formed by sub-packages corresponding to each of the sub-assemblies of the product:
  - one sub-package for the General information, designated data package DOSGENR35
  - one sub-package for the UDB and UBC, designated data package DOSGENR25
  - one sub-package for the transmitter UDE, designated data package DOSGENR26
  - one sub-package for the receiver UDR, designated data package DOSGENR27

- Each of these sub-packages comprises:
  - a table of contents (indicating the general revision index for the sub-package and its content)
  - an exploded view of the product with the spare parts references (numbered SE....)
  - an upgrade document of product evolutions (numbered SN...)
  - a fast test, technical diagnostic and final test (numbered SJ ..., except for the UDB-UBC data package, there is only one technical diagnostic)
  - repair procedures, numbered SN....)

```
<table>
<thead>
<tr>
<th>Repair data package</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>- General information</td>
<td>- Blank intervention sheets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Repair data package for adapter/battery pack UDB-UBC</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>- Repair data package for transmitter UDE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Repair data package for receiver UDR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Installation and user technical manual (+ additive sheet(s) and corrective sheet(s))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

Detail of contents of sub-packages:

```
<table>
<thead>
<tr>
<th>Data package designation</th>
<th>Additional remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data package version (incremented on each modification, E001, E002, E003...)</td>
<td></td>
</tr>
<tr>
<td>Nbr of documents</td>
<td></td>
</tr>
<tr>
<td>An asterisk next to a document means that it has been modified or added with respect to the old version of the data package</td>
<td></td>
</tr>
<tr>
<td>Document classification order</td>
<td></td>
</tr>
<tr>
<td>Products family</td>
<td></td>
</tr>
</tbody>
</table>

Data package update:

Technical documents are subject to change. Whenever applicable, we will systematically update you with the last versions and a new summary of the data packages.

This condition is subject to your returning the acknowledgement of receipt provided, duly filled in.
5- Safety precautions when intervening on equipment

Before intervening on equipment, be sure to observe the following precautions:

A) Shut down the receiver before you change any sub-assemblies.

B) Take all necessary precautions with respect to voltages present on control relay contacts.

C) Ensure that all voltages at terminal strips are at 0 V.

D) Use work stations equipped with protection systems against electrostatic discharges (conductors + bracelets) when handling electronic boards.

E) To maintain system tightness after reassembly, perform work on a clean, spacious workstation.

   Ensure all seals and seal-bearing surfaces are clean when reassembling equipment.

F) Store disassembled parts and spare parts to avoid deterioration:

   - seals
   - seal bearing areas
   - electronic components

G) Ensure all personnel is protected when conducting tests.
6- Tools required for repair

6.1- Special test tools:

- Test UDE 5 rows BPDV (double speed pushbuttons) with IR option + Grey electronic key ref: UDE122222 010
- Test UDR receiver 3+6 relays 230 VAC with IR and serial options ref: UDR1AB11 011
- Test and programming tool ref: PO1527
- Equipped cover kit for UDE v.D001 and higher (6 pushbuttons) ref: PR0209 6
- Test transmitter radio module ref: PR0120 E
- Test receiver radio module ref: PR0120 R (UDR v.A001 to B002 incl.) and PR0208 R (UDR v.B003 and higher)
- Test IR module ref: UDF1
- Set of button boards ref: PR0117 1 to E
- Test battery pack ref: UDB2 + test V.adapter ref: UBC *
- Screws + supply kit for UDE ref: PR0141 (UDR v.A001 to C002 incl.) and PR0230 (UDR v.D001 and higher) (see doc.SE260310)
- Test relay board ref: PR0122
- Repair label (roller of 1000 labels) ref: PR0229
- Spanners kit for receiver UDR: - Pg29 - serial option ref: PR0142
- For UDE version from A001 to C002 included: Tool for assembly / disassembly the stop pushswitch button ref: PR0130
- DialogUD software (version 5.1 or +) (with cable) ref: UDWR36
- Serial link accessory ref: UDWR32

6.2- Standard tools:

- Screwdriver, TORX No. 10
- Screwdriver, POSIDRIV No. 2
- Screwdriver, POSIDRIV No. 1
- 4mm tubular socket wrench
- 2.5mm hex head wrench
- 6mm flat tip screwdriver
- 16mm box wrench
- Electronics technician flat nose pliers
- Cutter
- Soldering iron

6.3- Measures:

- Digital multimeter
- Battery test tool ref: PO1572 (only on JAY Electronique plant)

6.4- Power supplies:

- Stabilised power supply 0-24VDC / 1 A min. with fine voltage adjustment (tenth of a volt).
- AC power supply 24-48 VAC / 1 A min.

PC micro-computer 486 DX4 100Mhz min., windows 95-98-Me-2000-XP 32MB RAM + serial port

SN350100.00 - 5/5
Help to fill the UD intervention sheet

1- Terms used in maintenance interventions and invoicing

1.1- Type of intervention

Repair (REP) :
Return to serviceable condition following diagnostic, by replacement of sub-assembly(s).

Overhaul (REV) :
Upgrading of sub-assemblies to integrate product evolutions.
Ex: replacement of wiring to prevent disconnection...

Modification (TRA) :
Modification of a product function subsequent to a customer request.
Ex: Change of type of button...

Preventive maintenance (MPR) :
Proposal for replacement of sub-assembly(s) to prevent deterioration of a component, or a missing part.
Ex: oxydised connector, housing which is no longer watertight, etc.

1.2- Type of invoicing

Covered by warranty (SG) :
The cost of the repair is covered by the company for the product warranty period.

Covered by repair warranty (SGR) :
The cost of the repair is covered by the company for the warranty period related to a repair already performed on a product.

Not covered by warranty (HG) :
The cost of repair, overhaul, preventive maintenance or modification of the product are for the customer's account.

2- Fault codes list to be put back on the intervention sheet

Choose for each replaced parts the most significant default code among the following list:

<table>
<thead>
<tr>
<th>Fault codes</th>
<th>Description</th>
<th>Fault codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00</td>
<td>Mechanical part cracked</td>
<td>C01</td>
<td>Malfunction</td>
</tr>
<tr>
<td>A01</td>
<td>Internal mechanical part broken</td>
<td>C03</td>
<td>Microswitch failure</td>
</tr>
<tr>
<td>A02</td>
<td>Mechanical part deformed</td>
<td>C04</td>
<td>Power supply fault</td>
</tr>
<tr>
<td>A03</td>
<td>External mechanical part broken</td>
<td>C05</td>
<td>Detection (voltage level) fault</td>
</tr>
<tr>
<td>A05</td>
<td>Housing not tight</td>
<td>C06</td>
<td>Electronic board oxydised</td>
</tr>
<tr>
<td>A07</td>
<td>Button broken or cracked</td>
<td>C07</td>
<td>Electronic board modified by third party</td>
</tr>
<tr>
<td>A09</td>
<td>Poor tightness</td>
<td>C08</td>
<td>Electronic component deteriorated</td>
</tr>
<tr>
<td>A10</td>
<td>Damaged strap</td>
<td>C10</td>
<td>Relay contact failure</td>
</tr>
<tr>
<td>A11</td>
<td>Faulty stop palmswitch</td>
<td>C16</td>
<td>Microswitch damaged</td>
</tr>
<tr>
<td>A13</td>
<td>Mechanical part uncoupled</td>
<td>D00</td>
<td>Connector oxydised</td>
</tr>
<tr>
<td>A15</td>
<td>IR window broken</td>
<td>D01</td>
<td>Connector deformed</td>
</tr>
<tr>
<td>A16</td>
<td>Button contact fault</td>
<td>D02</td>
<td>Connector broken</td>
</tr>
<tr>
<td>A17</td>
<td>Mechanical part very dirty</td>
<td>D03</td>
<td>Bad connector connection</td>
</tr>
<tr>
<td>A18</td>
<td>Mechanical part modified by third party</td>
<td>D04</td>
<td>Seal cracked</td>
</tr>
<tr>
<td>B00</td>
<td>Wiring oxydised</td>
<td>F00</td>
<td>Oxydised screws</td>
</tr>
<tr>
<td>B01</td>
<td>Wiring broken</td>
<td>F02</td>
<td>Broken screws</td>
</tr>
<tr>
<td>B02</td>
<td>Wiring disconnected</td>
<td>F03</td>
<td>Seal cut</td>
</tr>
<tr>
<td>B04</td>
<td>Cable oxydised</td>
<td>F04</td>
<td>Seal cracked</td>
</tr>
<tr>
<td>B05</td>
<td>Cable cut</td>
<td>G00</td>
<td>Fuse failure</td>
</tr>
<tr>
<td>B07</td>
<td>Battery worn out</td>
<td>G02</td>
<td>Missing fuse</td>
</tr>
<tr>
<td>B08</td>
<td>Wiring stripped</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Help to fill UD intervention sheet

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### INTERVENTION SHEET - UDB2 - UDE - UDR Products

**User**

- Company / contact: 
- Address: 
- Tel.: 
- Fax: 

**Intervention**

- Jay: 
- Agent: 
- Name: 
- Tel.: 
- Fax: 

**Faults indicated by user:**

**Intervention and invoicing information:**

- Note: For a functional sub-assembly upgrade (REV) or a modification (TRA), enter code X99 in the fault code box for the part.
- For a missing part, please tick the fault code X97 and fill in the information for the corresponding sub-assembly.

**Return of complying product**

- In the event of a product returned alone, or a system (example: transmitter, receiver, etc.), verified as compliant, tick fault code X95 (line ZCONF1).
- For a system (example: transmitter, receiver, ...) for which only one part is compliant (example: transmitter), tick fault code X95 (line ZCONF2).

**Return of unrepairable product**

- For a product returned which cannot be repaired, tick fault code X96 (line ZNOREP).

---

<table>
<thead>
<tr>
<th>Reference (Sub-assembly)</th>
<th>Description of spare part</th>
<th>Fault code</th>
<th>Type of Intervention</th>
<th>Type of invoice</th>
<th>Price (Tax-exc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0057 BP</td>
<td>Mechanical kit for pushbutton and BPTR</td>
<td></td>
<td>REP, REV, MP, TRA</td>
<td>SG, HG, SGR</td>
<td></td>
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<tr>
<td>PR0057 COM</td>
<td>Mechanical kit for rotary switch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0115</td>
<td>Stop pushbutton switch button for UDE version A001 to C002 included</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0116</td>
<td>Transmitter connection kit</td>
<td></td>
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<td></td>
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<tr>
<td>PR0117 Button board</td>
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<tr>
<td>PR0117 Button board</td>
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<tr>
<td>PR0117 Button board</td>
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</tr>
<tr>
<td>PR0120 E</td>
<td>Radio module</td>
<td></td>
<td></td>
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<tr>
<td>PR0141</td>
<td>Screws + supply for UDE version A001 to C002 included</td>
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<tr>
<td>PR0230</td>
<td>Screws + supply for UDE from version D001</td>
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</tr>
<tr>
<td>PR0143</td>
<td>Protective foams</td>
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<tr>
<td>PR0146</td>
<td>Connector + cable for UBCU/UBCW</td>
<td></td>
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<tr>
<td>PR0207 Transmitter Motherboard</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>PR0212 Transmitter back housing</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PR0209 Equipped cover without IR option</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PR0210 Equipped cover with IR option</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PR0213 Equipped housing without IR option</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>PR0217 Equipped housing with IR option</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UBC Adapter (charging UDB2) / battery pack connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>UDB2 Battery pack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UDC1 Wall support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UDP1 Shoulder strap</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>UWE22 Grey electronic key</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>UWE102 Removable shoulder strap</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>UWE202 Kit of 6 colored labels &quot;movements&quot; for pushbuttons</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>UWE203 Kit of 18 b/w labels &quot;special movements&quot;</td>
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</tr>
<tr>
<td>UWE204 Kit of 30 b/w labels &quot;special functions&quot; n°1</td>
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</tr>
<tr>
<td>UWE205 Kit of 48 b/w labels &quot;customization&quot;</td>
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</tr>
<tr>
<td>UWE206 Kit of 30 b/w labels &quot;special functions&quot; n°2</td>
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</tr>
<tr>
<td>ZCONF1 Functional check OK (product alone)</td>
<td>X95</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ZCONF2 Functional check OK (product associated)</td>
<td>X95</td>
<td></td>
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</tr>
<tr>
<td>ZNOREP Unrepairable product</td>
<td>X96</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference</td>
<td>Description of spare part</td>
<td>Fault code</td>
<td>Type of intervention</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------</td>
<td>------------</td>
<td>---------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0122</td>
<td>6 relays board</td>
<td></td>
<td>REP REV MP TRA SG HG SGR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0123</td>
<td>Fuse kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0124</td>
<td>Receiver motherboard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0125</td>
<td>Receiver housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR0127</td>
<td>Rubber cable gland kit</td>
<td></td>
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</tr>
<tr>
<td>PR0133</td>
<td>IR window for UDF module</td>
<td></td>
<td></td>
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<tr>
<td>PR0134</td>
<td>IR module electronic board</td>
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<tr>
<td>PR0138</td>
<td>Serial option</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PR0120 R</td>
<td>Radio module for UDR version A001 to B002 included</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PR0206 R</td>
<td>Radio module for UDR from version B003</td>
<td></td>
<td></td>
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<tr>
<td>UDF1</td>
<td>1 UDF IR module + 10m cable kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UDF2</td>
<td>2 UDF IR module + 10m cable kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UDWR</td>
<td>16 or 24 pin male connector + cable</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>UDWR10</td>
<td>10 m cable extension kit for UDF IR module</td>
<td></td>
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<td></td>
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<tr>
<td>UDWR11</td>
<td>Plastic cable gland kit</td>
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<td></td>
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<tr>
<td>UDWR12</td>
<td>Common wiring accessory</td>
<td></td>
<td></td>
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<td>UDWR13</td>
<td>Serial link accessory</td>
<td></td>
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<tr>
<td>VUB094</td>
<td>1/4 wave antenna 400 MHz</td>
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<td></td>
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<tr>
<td>VUB08</td>
<td>Other 400 MHz Antenna</td>
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<td></td>
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<tr>
<td>VUB1</td>
<td>Receiver antenna extension 5m + support</td>
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<tr>
<td>VUB100</td>
<td>Receiver antenna extension 2m + support</td>
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<tr>
<td>ZCONF1</td>
<td>Functional check OK (product alone)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ZCONF2</td>
<td>Functional check OK (product associated)</td>
<td></td>
<td></td>
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<tr>
<td>ZNOREP</td>
<td>Unrepairable product</td>
<td></td>
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</table>

Sub Total (TE.)
DOSSIER : DOSGEN R25 E 003
UD REPAIR DATA PACKAGE : UDB2-UBC PART

ARTICLE : DOSGEN R25

FOURNISSEUR : 38JA10
JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF
176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 26.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC. RECEPT. : 0.00.0000

DOSSIER SOURCE : E 002

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

<table>
<thead>
<tr>
<th>N°ORDRE</th>
<th>DOCUM/OUTIL</th>
<th>ETAT</th>
<th>DESIGNATION</th>
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<tbody>
<tr>
<td>* 01</td>
<td>SN 250040 02 V</td>
<td>LIST OF TOOLS</td>
<td>UDB2-UBC</td>
</tr>
<tr>
<td>* 02</td>
<td>SE 250020 02 V</td>
<td>PRODUCTS REFERENCES</td>
<td>UDB2-UBC</td>
</tr>
<tr>
<td>* 03</td>
<td>SN 250050 02 V</td>
<td>CHANGES AND UPGRADES</td>
<td>UDB2-UBC</td>
</tr>
<tr>
<td>* 04</td>
<td>SJ 250020 02 V</td>
<td>TECHNICAL DIAGNOSTIC</td>
<td>UDB2-UBC</td>
</tr>
<tr>
<td>05</td>
<td>SN 250060 01 V</td>
<td>BATTERY PACK TEST PROCEDURE</td>
<td>UDB2-UBC</td>
</tr>
</tbody>
</table>
Tools required for diagnostic on battery pack and adapter

○ Mechanical part:

- No special tools required

○ Measurement and test part:

- Multimeter equipped with test points
- Battery test tool ref: PO1572
  (Only for JAY Electronique plant)
- UBCU - UBCW test adapter
- Stabilised power supply, 0-24VDC / 1 A min. + UBC1.
Products references

UBC - UDB2

Adapter
230VAC (Euro. plug) / 12 VDC
UBCU

Adapter
230VAC (english plug) / 12 VDC
UBCW

Connector + cable for UBCU and UBCW
PR0148

Battery connector (vehicle plug)
UBC1

Black/white wire = +

10 - 30VDC
## Changes and upgrades - Battery pack UDB2

### Table of changes:

<table>
<thead>
<tr>
<th>UDB Battery pack version number</th>
<th>Change description</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>A001</td>
<td>1st version</td>
<td>04/2000 - 09/2000</td>
</tr>
<tr>
<td>A004 or A005</td>
<td>Polyswitch on electronic circuit eliminated</td>
<td>11/2000 - 02/2001</td>
</tr>
</tbody>
</table>

Changing the product reference
UDB -> UDB2

<table>
<thead>
<tr>
<th>UDB2 Battery pack version number</th>
<th>Change description</th>
<th>Dates</th>
</tr>
</thead>
</table>
| A001                            | Major change
Increase autonomy by NiMH technology                   | 02/2001 - 01/06/2001 |
| A002                            | Connexion improved (Golden contacts) board re-routing      | 01/06/2001 - 15/06/2001 |
| A003                            | Contact improved with transmitter housing contact-pins      | 15/06/2001 - 12/2002 |
| A004                            | minor change                                               | 12/2002 - 01/2004 |
| A005                            | minor change                                               | since 01/2004    |

### Obligatory upgrade:

Battery pack «UDB» must be systematically replaced by «UDB2» A003 min. version.
TECHNICAL DIAGNOSTIC: UBC-UBDB2
- For preparation of estimate -

START

Check of changes to battery packs
Check compliance of battery pack

Battery pack complies with respect to technical changes table?

yes
no

Visual inspection of adapter
Check condition of adapter, connector, jack and wires

Adapter in good condition?

yes
no

Functional check of adapter

UBCU - UBCW
Connect the adapter to the mains and measure the output voltage

Voltage output is 12 volts?

yes
no

UBC1
Check continuity of wiring

Wiring continuity OK?

yes
no

UBC• adapter
or PR0148 connector + cable (P.M.)

Visual inspection of battery pack
Check condition of seal, shell and strength of pack once inserted in back of transmitter

Battery pack in good condition

yes
no

UBDB2
Battery pack (P.M.)

Functional check

Connect battery pack to adapter or power supply using Jack cable

Check if battery pack red LED comes on

 yes
Continued on page 2

UBDB2
Battery pack

Symbols/abbreviations:

: Continue Diagnostic
: Stop Diagnostic
P.M.: Preventive Maintenance

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Stabilised power supply

Connect to main

UBCU or UBCW

Multimeter

Vdc

+ 12.00 V 12 VAC

white/black wire

Vdc

+ COM.

Battery pack test procedure

UDB2

Index | Modif. No. | Modification | Name | Date | Approved by |
--- | --- | --- | --- | --- | --- |
01 | T 727 | Update for UDB2 | E.DECHAME | 06.09.01 | Tech: |
00 | T 727 | First issue | E.DECHAME | 25.01.01 | Tech: DPO | Market: GR |

Format: A4

Filename: SN250060.P65

DOC REF.: SN 250060.01
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<th>DESIGNATION</th>
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<tbody>
<tr>
<td>* 01</td>
<td>SN 260220 02 V</td>
<td>LIST OF TOOLS</td>
<td>UDE</td>
</tr>
<tr>
<td>* 02</td>
<td>SN 260225 00 V</td>
<td>DETERMINE VERSION OF UDE TRANSMITTER</td>
<td>UDE</td>
</tr>
<tr>
<td>* 03</td>
<td>SE 260201 00 V</td>
<td>EXPLODED VIEW / UDE VERSION A001 TO A005 INCL. UDE</td>
<td>UDE</td>
</tr>
<tr>
<td>* 04</td>
<td>SE 260202 00 V</td>
<td>EXPLODED VIEW / UDE VERSION A006 TO A010 INCL. UDE</td>
<td>UDE</td>
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<tr>
<td>* 05</td>
<td>SE 260203 00 V</td>
<td>EXPLODED VIEW / UDE VERSION B001 TO B004 INCL. UDE</td>
<td>UDE</td>
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<tr>
<td>* 06</td>
<td>SE 260204 00 V</td>
<td>EXPLODED VIEW / UDE VERSION B005 TO B010 INCL. UDE</td>
<td>UDE</td>
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<tr>
<td>* 07</td>
<td>SE 260205 00 V</td>
<td>EXPLODED VIEW / UDE VERSION C001 TO C002 INCL. UDE</td>
<td>UDE</td>
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<tr>
<td>* 08</td>
<td>SE 260206 00 V</td>
<td>EXPLODED VIEW / UDE VERSION D001 TO D002 INCL. UDE</td>
<td>UDE</td>
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<tr>
<td>* 09</td>
<td>SE 260207 00 V</td>
<td>EXPLODED VIEW / UDE VERSION D003</td>
<td>UDE</td>
</tr>
<tr>
<td>* 10</td>
<td>SE 260300 00 V</td>
<td>UDE LABEL KITS FOR VERSION A001 TO C002 INCL. UDE</td>
<td>UDE</td>
</tr>
<tr>
<td>* 11</td>
<td>SE 260301 00 V</td>
<td>UDE LABEL KITS FOR VERSION D001 AND HIGHER UDE</td>
<td>UDE</td>
</tr>
<tr>
<td>* 12</td>
<td>SE 260310 00 V</td>
<td>TRANSMITTER SCREW KIT AND ACCESSORIES</td>
<td>UDE</td>
</tr>
<tr>
<td>* 13</td>
<td>SN 260230 02 V</td>
<td>UPGRADING THE TRANSMITTER</td>
<td>UDE</td>
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<tr>
<td>* 14</td>
<td>SJ 260040 02 V</td>
<td>QUICK TEST BEFORE INTERVENTION</td>
<td>UDE</td>
</tr>
<tr>
<td>* 15</td>
<td>SJ 260050 02 V</td>
<td>TECHNICAL DIAGNOSIS</td>
<td>UDE</td>
</tr>
<tr>
<td>* 16</td>
<td>SJ 260060 02 V</td>
<td>FINAL TEST AFTER INTERVENTION</td>
<td>UDE</td>
</tr>
<tr>
<td>* 17</td>
<td>SN 260235 00 V</td>
<td>UPGRADING TRANSMITTER INTERNAL PROGRAMM</td>
<td>UDE</td>
</tr>
<tr>
<td>* 18</td>
<td>SN 260240 02 V</td>
<td>CONNECTING A POWER SUPPLY TO TRANSMITTER</td>
<td>UDE</td>
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<tr>
<td>* 19</td>
<td>SN 260250 02 V</td>
<td>TEST OF STOP PALMSWITCH BUTTON</td>
<td>UDE</td>
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<tr>
<td>* 20</td>
<td>SN 260260 02 V</td>
<td>CHANGING THE TRANSMITTER COVER AND HOUSING</td>
<td>UDE</td>
</tr>
<tr>
<td>* 21</td>
<td>SN 260265 01 V</td>
<td>CHANGING THE PROTECTIVE FOAMS</td>
<td>UDE</td>
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<tr>
<td>* 22</td>
<td>SN 260290 02 V</td>
<td>CHANGING THE PUSHBUTTON MECHANICAL KIT</td>
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<tr>
<td>* 23</td>
<td>SN 260300 02 V</td>
<td>CHANGING THE ROTARY SWITCH MECHANICAL KIT</td>
<td>UDE</td>
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<tr>
<td>* 24</td>
<td>SN 260310 02 V</td>
<td>CHANGING STOP PALM.BUT. ON UDE V.A001 TO C002</td>
<td>UDE</td>
</tr>
<tr>
<td>* 25</td>
<td>SN 260320 02 V</td>
<td>CHANGING A FUNCTION BUTTON BOARD</td>
<td>UDE</td>
</tr>
<tr>
<td>* 26</td>
<td>SN 260350 02 V</td>
<td>CHANGING THE MOTHERBOARD WITHOUT IR START-UP</td>
<td>UDE</td>
</tr>
<tr>
<td>* 27</td>
<td>SN 260355 00 V</td>
<td>CHANGING THE MOTHERBOARD WITH IR START-UP</td>
<td>UDE</td>
</tr>
<tr>
<td>* 28</td>
<td>SN 260360 02 V</td>
<td>CHANGING THE RADIO MODULE</td>
<td>UDE</td>
</tr>
<tr>
<td>* 29</td>
<td>SN 260380 02 V</td>
<td>MARKINGS ON REPAIRED TRANSMITTER</td>
<td>UDE</td>
</tr>
</tbody>
</table>
List of tools required for repair of transmitter UDE

○ Mechanical part:

All UDE versions:
- No. 10 Torx screwdriver (for housing screws)
- No. 1 Posidriv screwdriver (for button board and mechanical kit)
- 2.5mm Allen wrench (for motherboard / radio module mounting screws)
- Cutter (to unfasten function labels)
- Flat angled plier (for assembly/disassembly of IR Option)

+ UDE version A001 to C002 only:
- No. 2 Posidriv screwdriver (for housing screws)
- 4mm tubular socket wrench (for power supply connection pins and electronic key)
- Tool PR0130 (for assembly/disassembly of stop palmswitch button)

○ Measurement and test part:

All UDE versions:
- 0-24VDC / 1 A min. stabilised power supply with fine adjustment to 1/10th of a Volt
- Digital multimeter
- PC micro-computer with serial port
- Serial link accessory, ref. UDWR32
- «Dialog UD» software (version 5.1 minimum), ref. UDWR36
- Programming tool, ref. PO1527
- Test battery pack, charged, ref. UDB2
- Test receiver, ref : UDR1AB11 011
- Test UDF ref : UD1
- Screws + supply kit : PR0230 (from D001) or PR0141 (version A001 to C002 included)
- Test function button boards, ref : PR0117 1 to E
- Test blank grey electronic key, ref : UDWE22 V
- Test radio module, ref : PR0120 E

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by:</th>
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<tr>
<td>02</td>
<td>T 727</td>
<td>New spare parts and accessories</td>
<td>E.DECHAME</td>
<td>10.06.04</td>
<td>Tech: Market:</td>
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</tbody>
</table>

List of tools

UDE

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Determine version of UDE transmitter

The version number is indicated on the nameplate, fastened to the back of the transmitter where the battery pack is located.

The number identifies the UDE version and therefore its various technical changes.

The table of technical changes (doc. SN260230) indicates all the upgrades which you need to perform on the UDE transmitter in accordance with its version number.

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by</th>
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<tr>
<td>00</td>
<td>T 727</td>
<td>first issue</td>
<td>E.DECHAME</td>
<td>10.06.04</td>
<td>Tech:</td>
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Determine the version of transmitter UDE

| Format: | A4 |
|Filename: | SN260225-00-EN.P65 |

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UDE exploded view for version A001 to A005 included

Note: The figure below shows a transmitter with 6 function buttons.

Legend:
- X Description
- Y Reference
- Z assembly/disassembly procedure

(1): This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230.

** = see doc.SE260300 for contents

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
<th>Doc. Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-in EEPROM memory</td>
<td>PR0105</td>
<td></td>
</tr>
<tr>
<td>Transmitter radio module</td>
<td>PR0120 E</td>
<td></td>
</tr>
<tr>
<td>Transmitter motherboard</td>
<td>PR0117 **</td>
<td></td>
</tr>
<tr>
<td>IR transmission sub-assembly</td>
<td>PR0129</td>
<td></td>
</tr>
<tr>
<td>Transmitter housing bottom</td>
<td>PR0116</td>
<td></td>
</tr>
<tr>
<td>Transmitter connection kit</td>
<td>PR0116</td>
<td></td>
</tr>
<tr>
<td>Screws + supplies kit</td>
<td>PR0141</td>
<td></td>
</tr>
<tr>
<td>Mechanical kit for 5 rotary</td>
<td>PR0057 BP</td>
<td></td>
</tr>
<tr>
<td>Function label kits</td>
<td>UDWE **</td>
<td></td>
</tr>
<tr>
<td>UDE strap</td>
<td>UDP1</td>
<td></td>
</tr>
<tr>
<td>Ribbon cable</td>
<td>PR0132</td>
<td></td>
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<tr>
<td>Non IR UDE housing cover</td>
<td>PR0144</td>
<td></td>
</tr>
<tr>
<td>IR UDE housing cover</td>
<td>PR0132</td>
<td></td>
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<tr>
<td>Mechanical kit for 10 pushbuttons</td>
<td>PR0057 BP</td>
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<tr>
<td>IHM board</td>
<td>PR0118</td>
<td></td>
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<td>Transmitter housing seal</td>
<td>PR0129</td>
<td></td>
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<tr>
<td>Stop palm switch button</td>
<td>PR0115</td>
<td></td>
</tr>
<tr>
<td>Transmitter connection kit</td>
<td>PR0116</td>
<td></td>
</tr>
<tr>
<td>Screws + supplies kit</td>
<td>PR0141</td>
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</tr>
<tr>
<td>Mechanical kit for 10 pushbuttons</td>
<td>PR0057 BP</td>
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</tr>
<tr>
<td>IHM board</td>
<td>PR0118</td>
<td></td>
</tr>
<tr>
<td>Transmitter housing seal</td>
<td>PR0129</td>
<td></td>
</tr>
<tr>
<td>Stop palm switch button</td>
<td>PR0115</td>
<td></td>
</tr>
</tbody>
</table>

This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230.
UDE exploded view for version A006 to A010 included

Note: The figure below shows a transmitter with 6 function buttons

- Plug-in EEPROM memory
  (reference PR0113 no more available)
- Transmitter radio module
  (reference PR0119 no more available)
- Transmitter motherboard
  (reference PR0121 no more available)
- IR transmission sub-assembly
  (reference PR0129 6 and PR0129 10 no more available)
- Button board
  ** = see doc.SE260300
  for contents
- Non IR UDE housing cover
  (references PR0114 6 and PR0114 10 no more available)
- IR UDE housing cover
  (references PR0132 6 and PR0132 10 no more available)
- Function label kits
  UDWE **
  ** = see doc.SE260300
  for contents
- Mechanical kit for 5 rotary switches
  PR0057_COM
  doc. SN260320
- GREEN electronic key
  (reference UDWE21 no more available)

Legend:
- X = Description
- Y = Reference
- doc. Z = assembly/disassembly procedure

(1): This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly.

Refer to instructions in document SN260230

This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230

Exploded view
UDE
version A006 to A010

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UDE exploded view for version B001 to B004 included

Note: The figure below shows a transmitter with 6 function buttons

Legend:
- Description
- Reference
- Assembly/disassembly procedure

This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230.

Exploded view
UDE
version B001 to B004

E.DECHAME
10.06.04
Tech:
Market:

SE260203-00-EN.P65

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This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230.
UDE exploded view for version D001 to D002 included

Note: The figure below shows a transmitter with 6 function buttons.

Legend:
- X: Description
- Y: Reference
- Z: doc.

**Mechanical kit for 5 rotary switches**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0057 COM</td>
<td>See doc. SN260301 for contents</td>
</tr>
</tbody>
</table>

**Protective foams**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0143</td>
<td>doc. SN260265</td>
</tr>
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</table>

**Transmitter radio module**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0120 E</td>
<td>doc. SN260380</td>
</tr>
</tbody>
</table>

**Stop palmswitch**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0207</td>
<td>* = 6: without IR  1: with IR doc. SN260350 (w/o IR) doc. SN260355 (w/ IR)</td>
</tr>
</tbody>
</table>

**Housing seal**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0212</td>
<td>* = 6: 6+2 buttons transmitter  10: 10+2 buttons transmitter</td>
</tr>
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</table>

**Transmitter motherboard**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0207 *</td>
<td>* = 6: without IR  1: with IR doc. SN260350 (w/o IR) doc. SN260355 (w/ IR)</td>
</tr>
</tbody>
</table>

**Equipped transmitter cover without IR**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0209 *</td>
<td></td>
</tr>
</tbody>
</table>

**Equipped transmitter cover with IR**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0210 *</td>
<td></td>
</tr>
</tbody>
</table>

**Grey electronic key**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDE22*</td>
<td>* = V: Blank e.key, to program  X: programmed key (n° key to be supplied)</td>
</tr>
</tbody>
</table>

**Equipped transmitter housing**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0215*</td>
<td>6: 6+2 buttons transmitter  10: 10+2 buttons transmitter</td>
</tr>
</tbody>
</table>

**Transmitter connection kit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0116</td>
<td></td>
</tr>
</tbody>
</table>

**Screws + supplies kit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0230</td>
<td>See doc. SN260310 for contents</td>
</tr>
</tbody>
</table>

**IHM Board**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0117 *</td>
<td></td>
</tr>
</tbody>
</table>

**UDE Strap**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDP1</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical kit for 10 pushbuttons**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0057 BP</td>
<td>doc. SN260290</td>
</tr>
</tbody>
</table>

**Transmitters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR0207 *</td>
<td></td>
</tr>
</tbody>
</table>

**Function label kits**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UWE**</td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

- X: Description
- Y: Reference
- Z: doc.

**Index Modif. No. Modification Name Date Approved by:**

| 00 | T 727 | first issue | E.DECHAME | 16.11.04 | Tech: |

**Format:** A4

**Filename:** SE260206-00-EN.P65

**DOC REF.:** SE260206.00

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UDE exploded view for version D003

Note: The figure below shows a transmitter with 6 function buttons

Legend:

X Description
Y Reference
doc. Z assembly/disassembly procedure

Table:

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</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>T 727</td>
<td>first issue</td>
<td>E.DECHAME</td>
<td>16.11.04</td>
<td></td>
</tr>
</tbody>
</table>

AME electronique
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Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

Exploded view
UDE
version D003

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Label kits for UDE version A001 to C002 included

Caution, these label kits will become obsolescent in the near future and are only valid for transmitters UDE version A001 to C002 included; the housings for these versions have not yet been changed (transition to version D001 and higher)

Reference:
**UDWE10** Kit comprising 10 colored labels for single speed movement pushbuttons

- Background color: black
- White
- Brown
- Green
- Blue
- Yellow
- Grey
- Grey
- Grey
- Grey

Reference:
**UDWE11** Kit comprising 10 colored labels for double speed movement pushbuttons

- Background color: black
- White
- Brown
- Green
- Blue
- Yellow
- Grey
- Grey
- Grey
- Grey

Reference:
**UDWE12** Kit comprising 20 b/w labels for pushbuttons «numbering»

1 2 3 4 5 6 7 8 9 10 + 1 2 3 4 5 6 7 8 9 10

- Background color: grey

Reference:
**UDWE13** Kit comprising 6 grey labels for pushbuttons «customization»

- (6 grey marking labels)
- (6 transparent protection labels)

Reference:
**UDWE14** Kit comprising 12 b/w labels for rotary switches

- (4 customizable labels)
- (4 transparent protection labels)

Reference:
**UDWE15** Kit comprising 6 colored labels for pushbuttons «customization»

- White
- White
- Green
- Brown
- Yellow
- Blue
- (6 transparent protection labels)

---

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Label kits for UDE version D001 and higher

Reference: UWE202

6 colored labels «movements»
for double speed pushbuttons

Reference: UWE203

18 B/W labels «Special movements» for pushbuttons

Reference: UWE204

30 B/W labels «Special functions» nb.1 for pushbuttons and rotary switches

Reference: UWE205

48 white labels «Customization» + 48 transparent protecting labels, can be used with laser printer or marker.
Screws + supply kits and accessories for UDE transmitter

**Reference:**

**PR0116** Transmitter connection kit

- **UDE 10+2 buttons**
- 12-pin ribbon cable
- **UDE 6+2 buttons**
- 12-pin ribbon cable

Power supply connection assembly only for UDE version number A001 to C002 included.

**Reference:**

**PR0141** Screws + supply kit for UDE version number A001 to C002 included

- **EEPROM memory band**
- Power supply contact pins + seals + nuts
- **Electronic key contact pins + seals**
- **Transmitter housing screws** (N.2 Pozidriv)
- **Transmitter fastening**
- **Battery pack spring** (mounted on transmitter housing back)

**Reference:**

**PR0230** Screws + supply kit for UDE version number D001 and higher

- **IHM board power supply pins + seals**
- **Screws for button boards and IHM board**
- **Transmitter housing screws** (N.10 Torx)
- **Transmitter fastening**
- **Battery pack spring** (mounted on transmitter housing back)

**Reference:**

**UWE102** Shoulder strap

**Reference:**

**UDC1** Wall support for binding the transmitter on rest and refilling the battery pack

UDE transmitter

UDE transmitter

UDE battery pack

Power supply connection assembly only for UDE version number A001 to C002 included.

**Reference:**

**UDE** Screws + supply kit and accessories

- **Screws + supply kit for UDE version number A001 to C002 included**
- **Screws + supply kit for UDE version number D001 and higher**
- **Reference:**
  **PR0230**

- **Reference:**
  **PR0141**

- **Reference:**
  **PR0116**

- **Reference:**
  **UWE102** Shoulder strap

- **Reference:**
  **UDC1** Wall support for binding the transmitter on rest and refilling the battery pack

**Index**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
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<td>T 727</td>
<td>first issue</td>
<td>E.DECHAME</td>
<td>30.07.04</td>
<td>Tech:</td>
</tr>
</tbody>
</table>

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Upgrading the transmitter according UDE version number

Subsequent to major technical and mechanical changes starting with version No. D001, for any fault observed on a UDE transmitter having a version No. lower than D001, the transmitter must be upgraded.

The table below indicates the parts to be kept and those to be replaced in accordance with the version No., and the assembly procedures for upgrading the transmitter.

<table>
<thead>
<tr>
<th>UDE version number</th>
<th>Part(s) to be kept</th>
<th>Part(s) to be used for the upgrade</th>
<th>Assembly / disassembly procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Description</td>
<td>Reference</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipped housing kit</td>
<td>PR0215 * or PR0217 *</td>
<td>SN260260</td>
</tr>
<tr>
<td></td>
<td>Motherboard</td>
<td>PR0207 0 (w/out IR) PR0207 1 (with IR)</td>
<td>SN260350 (w/out IR) SN260355 (with IR)</td>
</tr>
<tr>
<td></td>
<td>GREY electronic key</td>
<td>UDWE22 *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical pushbutton kit</td>
<td>PR0057 BP</td>
<td>SN260290</td>
</tr>
<tr>
<td></td>
<td>Mechanical rotary switch kit</td>
<td>PR0057 COM</td>
<td>SN260300</td>
</tr>
<tr>
<td></td>
<td>Screws + supply kit</td>
<td>PR0230</td>
<td>SE260310</td>
</tr>
<tr>
<td></td>
<td>Button boards</td>
<td>PR0117 1,3,4,5,6,7,8,9,A,B</td>
<td>SN260320</td>
</tr>
<tr>
<td></td>
<td>Protective foams (if missing)</td>
<td>PR0143</td>
<td>SN260265</td>
</tr>
<tr>
<td></td>
<td>Labels kit</td>
<td>UWE ***</td>
<td>SE260301</td>
</tr>
</tbody>
</table>

A01 to A10 included

- Radio module
- BPDV function board
- Protective foams (if present)

- Motherboard
- Grey electronic key
- Radio module
- Button boards
- Mechanical pushbutton kit
- Mechanical rotary switch kit
- Mother board/IHM board ribbon
- Protective foams

B001 to B10 included

- Radio module
- Button boards
- Mechanical pushbutton kit
- Mechanical rotary switch kit
- Mother board/IHM board ribbon
- Protective foams

- Motherboard
- GREY electronic key
- Radio module
- Button boards
- Mechanical pushbutton kit
- Mechanical rotary switch kit
- Mother board/IHM board ribbon
- Protective foams

C001 to C002 included

+ Update the UDE internal software if UDE version is "C001" and UDE is equipped with IR option (follow procedure SN260045) (only in JAY electronique plant)

- Radio module
- BPDV function board
- Protective foams (if present)

D001

date : 01/2004 to 15/06/2004

Updates : New transmitter housing, new stop palmswitch button, new IHM board

D002

date : 15/06/2004 to 11/10/2004

Updates : Transmitter internal software update authorizing the use of an electronic key with a button configuration different from that physically present on the transmitter

(The update D001 > D002 can be realized only in JAY electronique plant)

D003

date : since 11/10/2004

Updates : New protective foams with insert to ensure a strengthened holding of the superior foam. These new protective foams are not any more "pinched" between the cover and the bottom of the housing.

New protective foams can be installed instead of the former protective foams version.

Index Modif. No. Modification Name Date Approved by: Format: Filename: DOC REF.: Page: 1 / 1
02 T 727 Update UDE since v.D003 E.DECHAME 16.11.04 Tech: Market: A4 SN260230-02-EN.P65 SN260230.02

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**UDE quick test before intervention**

**START**

- Fit a charged battery pack in the back of the UDE
- Unlock the stop palmswitch button
- Green LED of transmitter comes on steady?  
  - yes
  - no  
  - (go to UDE functional check in document SJ260050)
- On transmitter, press "on" button
- Transmitter green LED flashes?  
  - yes
  - no  
  - (go to UDE sub-assembly test in document SJ260050)
- Press the stop palmswitch button
- Green LED goes off?  
  - yes
  - no  
  - (go to UDE sub-assembly test in document SJ260050)
- Program the test key with UDE button configuration, and UDR channel / identity code
- Go to "Test" function in the DialogUD software and switch on the receiver
- Unlock the transmitter stop palmswitch button and press the "on" button
- Check that radio quality rate = 100%  
  - yes
  - no  
  - (go to UDE radio module check in document SJ260050)
- Receiver safety and horn relays pull in ?  
  - yes
  - no  
  - (go to UDE button state check in document SJ260050)
- Equip the test receiver with a UDF and program it with the IR startup option
- Press the green "on" button while pointing the UDE toward the test receiver (3m min. between UDE and UDF)
- Receiver safety and horn relays pull in ?  
  - yes
  - no  
  - (go to IR startup option test in document SJ260050)
- Repeat test at distance of around 20m (range test)
- Receiver safety and horn relays pull in ?  
  - yes
  - no  
  - (go to IR startup option test in document SJ260050)
- Press the stop palmswitch button. Visually inspect transmitter, check condition of housing, seal, function buttons and function labels
- Perform transmitter upgrade check

**END**

---

**Tools:**
- Test UDR
- Programming tool PO1527
- "Dialog UD" software v5.1 minimum ref.: UDWR36
- Test blank electronic key UDWE22 V

**Key:**
- no
- yes

---

**Additional information**

If the two indicator lights on the transmitter flash regularly, refer to the probable faults table on page 2,3 and 4.

---

**Tools:**
- Test UDR
- Programming tool PO1527
- "Dialog UD" software v5.1 minimum ref.: UDWR36
- Test blank electronic key UDWE22 V

---

**See technical diagnostic in section "UDE visual inspection"**

---

**See document SN260230**

---

**Index**

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>T 727</td>
<td>Update since D002 version</td>
<td>E.DECHAME</td>
<td>29.06.04</td>
<td>Tech:</td>
</tr>
</tbody>
</table>

---

**Format:** A4

**Filename:** SJ260040-02-EN.P65

**DOC REF.:** SJ 260040.02

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### Error messages

<table>
<thead>
<tr>
<th>Transmitter state</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Possible causes of fault</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before or after “ON” button pressed</td>
<td>OFF</td>
<td></td>
<td>- Ribbon cable connecting motherboard to IHM board and to stop palmswitch button is disconnected</td>
<td></td>
</tr>
<tr>
<td>Before or after “ON” button pressed</td>
<td>2 flashes</td>
<td>- Electronic key absent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>3 flashes</td>
<td>- Error on electronic key number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before or after “ON” button pressed</td>
<td>4 flashes</td>
<td>- Transmitter locked (flashes during programming attempt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>5 flashes</td>
<td>- Momentary disconnection of battery pack</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>6 flashes</td>
<td>- Stop palmswitch button faulty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>7 flashes</td>
<td>- Disconnection of EEPROM memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>8 flashes</td>
<td>- Motherboard faulty</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Programming modes

<table>
<thead>
<tr>
<th>Transmitter state</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Mode: channel No., dead man time, key No.</td>
<td>Flashes according to number of tens of parameter configured</td>
<td>Flashes according to number of units of parameter configured</td>
<td>indicates tens and units</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>OFF</td>
<td>Transmitter is locked</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>ON Steady</td>
<td>Transmitter is unlocked</td>
</tr>
</tbody>
</table>

### Battery pack charge states

<table>
<thead>
<tr>
<th>Transmitter state</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before “ON” button pressed</td>
<td>OFF</td>
<td>ON Steady</td>
<td>Battery pack charge &gt; 90%</td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>Flashes SLOW</td>
<td>ON Steady</td>
<td>90% &gt; Battery pack charge &gt; LOW BATT level</td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>Flashes FAST</td>
<td>ON Steady</td>
<td>Battery pack charge &lt; or = LOW BATT level</td>
</tr>
<tr>
<td>After “ON” button pressed</td>
<td>OFF</td>
<td>Flashes</td>
<td>Radio transmission</td>
</tr>
<tr>
<td>After “ON” button pressed</td>
<td>Flashes FAST</td>
<td>Flashes</td>
<td>Battery pack charge &gt; 90%</td>
</tr>
</tbody>
</table>

LOW BATT level = battery level low (battery pack charge < 10%)
### Error messages

<table>
<thead>
<tr>
<th>Transmitter state (trans. Stop plamswitch button is unlocked)</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Possible causes of fault</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before or after <strong>&quot;ON&quot;</strong> button pressed</td>
<td>OFF</td>
<td></td>
<td>- Ribbon cable connecting motherboard to IHM board and to stop palmswitch button is disconnected</td>
<td>- Check connection of ribbon cable linking motherboard to IHM board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Power supply wires disconnected</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- IHM board faulty</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop palmswitch button pins faulty</td>
<td></td>
</tr>
<tr>
<td>Before or after <strong>&quot;ON&quot;</strong> button pressed</td>
<td>Both ON Steady</td>
<td></td>
<td>- Electronic key absent</td>
<td>- Check connection of ribbon cable linking motherboard to IHM board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Bad electronic key connection</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Electronic key faulty</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- IHM board faulty</td>
<td></td>
</tr>
<tr>
<td>When programming radio channel No. Dead man duration, or ID code copy</td>
<td>Flash in alternation</td>
<td></td>
<td>- Transmitter is locked</td>
<td>- Transmitter is locked; see UD installation manual to unlock the access to programming</td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>3 flashes</td>
<td></td>
<td>- Error on ID code</td>
<td>- Copy ID code in UDE (see procedure in installation manual)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Electronic key faulty</td>
<td>- Proceed by test elec. key substitution</td>
</tr>
<tr>
<td>Before or after <strong>&quot;ON&quot;</strong> button pressed</td>
<td>4 flashes</td>
<td></td>
<td>- Button configuration of the electronic key is different than transmitter button configuration</td>
<td>- Check that configuration button is the same between electronic key and transmitter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Button board faulty</td>
<td>- Check connection of all ribbon cables in transmitter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Ribbon cable linking last button board to motherboard is disconnected</td>
<td>- Proceed by test button boards substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Ribbon cables linking button boards are disconnected</td>
<td></td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>5 flashes</td>
<td></td>
<td>- Momentary disconnection of battery pack</td>
<td>- Check that battery pack is securely mounted in UDE back. If necessary, replace contact pins.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop palmswitch button pins faulty</td>
<td>- Check stop palmswitch button pins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>6 flashes</td>
<td></td>
<td>- Momentary disconnection of battery pack</td>
<td>- Check stop palmswitch button pins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop palmswitch button pins faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td></td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>7 flashes</td>
<td></td>
<td>- Electronic key faulty</td>
<td>- Proceed by test elec. key substitution</td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>8 flashes</td>
<td></td>
<td>- Motherboard faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmitter state (trans. Stop plamswitch button is unlocked)</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Mode: channel No., dead man time, key No.</td>
<td>Flashes according to number of tens of parameter configured</td>
<td>Flashes according to number of units of parameter configured</td>
<td>indicates tens and units</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>OFF</td>
<td>Transmitter is locked</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>ON Steady</td>
<td>Transmitter is unlocked</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Battery pack charge states</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>OFF</td>
<td>ON Steady</td>
<td>Battery pack charge &gt; 90%</td>
</tr>
<tr>
<td>Before <strong>&quot;ON&quot;</strong> button pressed</td>
<td>Flashes SLOW</td>
<td>ON Steady</td>
<td>90% &gt; Battery pack charge &gt; LOW BATT level</td>
</tr>
<tr>
<td>After <strong>&quot;ON&quot;</strong> button pressed</td>
<td>OFF</td>
<td>Flashes</td>
<td>Radio transmission Battery pack charge &gt; 90%</td>
</tr>
<tr>
<td>After <strong>&quot;ON&quot;</strong> button pressed</td>
<td>Flashes FAST</td>
<td>Flashes</td>
<td>Battery pack charge &lt; or = LOW BATT level</td>
</tr>
</tbody>
</table>

LOW BATT level = battery level low (battery pack charge < 10%)
## Error messages

<table>
<thead>
<tr>
<th>Transmitter state (trans. Stop plamswitch button is unlocked)</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Possible causes of fault</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before or after &quot;ON&quot; button pressed</td>
<td>OFF</td>
<td></td>
<td>- Ribbon cable connecting motherboard to IHM board</td>
<td>- Check connection of ribbon cable linking motherboard to IHM board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Power supply wires disconnected</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- IHM board faulty</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop plamswitch button pins faulty</td>
<td></td>
</tr>
<tr>
<td>Before or after &quot;ON&quot; button pressed</td>
<td>Both ON Steady</td>
<td></td>
<td>- Electronic key absent</td>
<td>- Check connection of ribbon cable linking motherboard to IHM board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Bad electronic key connection</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Electronic key faulty</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td></td>
</tr>
<tr>
<td>When programming radio channel No, Dead man duration, or ID code copy</td>
<td>Flash in alternation</td>
<td></td>
<td>- Transmitter is locked</td>
<td>- Transmitter is locked, see UD installation manual to unlock the access to programming</td>
</tr>
<tr>
<td>Before &quot;ON&quot; button pressed</td>
<td>3 flashes</td>
<td></td>
<td>- Error on ID code</td>
<td>- Copy ID code in UDE (see procedure in installation manual)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Electronic key faulty</td>
<td>- Proceed by test elec. key substitution</td>
</tr>
<tr>
<td>Before or after &quot;ON&quot; button pressed</td>
<td>4 flashes</td>
<td></td>
<td>- Button board faulty</td>
<td>- Check connection of all ribbon cables in transmitter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Ribbon cable linking last button board to motherboard is disconnected</td>
<td>- Proceed by test button boards substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Ribbon cables linking button boards are disconnected</td>
<td></td>
</tr>
<tr>
<td>Before &quot;ON&quot; button pressed</td>
<td>5 flashes</td>
<td></td>
<td>- Momentary disconnection of battery pack</td>
<td>- Check that battery pack is securely mounted in UDE back. If necessary, replace contact pins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop plamswitch button pins faulty</td>
<td>- Check stop plamswitch button pins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td>Before &quot;ON&quot; button pressed</td>
<td>6 flashes</td>
<td></td>
<td>- Momentary disconnection of battery pack</td>
<td>- Check stop plamswitch button pins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Stop plamswitch button pins faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Motherboard faulty</td>
<td></td>
</tr>
<tr>
<td>Before &quot;ON&quot; button pressed</td>
<td>7 flashes</td>
<td></td>
<td>- Electronic key faulty</td>
<td>- Proceed by test elec. key substitution</td>
</tr>
<tr>
<td>Before &quot;ON&quot; button pressed</td>
<td>8 flashes</td>
<td></td>
<td>- Motherboard faulty</td>
<td>- Proceed by test motherboard substitution</td>
</tr>
</tbody>
</table>

## Programming modes

<table>
<thead>
<tr>
<th>Transmitter state (trans. Stop plamswitch button is unlocked)</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Mode: channel No., dead man time, key No.</td>
<td>Flashes according to number of tens of parameter configured</td>
<td>Flashes according to number of units of parameter configured</td>
<td>indicates tens and units</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>OFF</td>
<td>Transmitter is locked</td>
</tr>
<tr>
<td>Procedure: locking - unlocking access to programming</td>
<td>ON Steady</td>
<td>ON Steady</td>
<td>Transmitter is unlocked</td>
</tr>
</tbody>
</table>

## Battery pack charge states

<table>
<thead>
<tr>
<th>Transmitter state (trans. Stop plamswitch button is unlocked)</th>
<th>Red indicator light</th>
<th>Green indicator light</th>
<th>Function or message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before “ON” button pressed</td>
<td>OFF</td>
<td>ON Steady</td>
<td>Battery pack charge &gt; 90%</td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>Flashes SLOW</td>
<td>ON Steady</td>
<td>90% &gt; Battery pack charge &gt;LOW BATT level</td>
</tr>
<tr>
<td>Before “ON” button pressed</td>
<td>Flashes FAST</td>
<td>ON Steady</td>
<td>Battery pack charge &lt; or = LOW BATT level</td>
</tr>
<tr>
<td>After “ON” button pressed</td>
<td>OFF</td>
<td>Flashes</td>
<td>Radio transmission</td>
</tr>
<tr>
<td>After “ON” button pressed</td>
<td>Flashes FAST</td>
<td>Flashes</td>
<td>Battery pack charge &gt; 90%</td>
</tr>
</tbody>
</table>
UDE Technical diagnosis

**Start**

- On the intervention sheet, write down the UDE reference
- Read electronic parameters and following data (with DialogUD software and programming tool PO1527):
  - radio channel
  - ID code
  - "Dead man" function duration

**Visual inspection of UDE**

Open the transmitter and separate the half-shells.

- Check the UDE version according exploded views (doc SE260201 to SE260206)
- Check UDE internal software if C001 version (only for JAY electronique plant)

**Transmitter complies with respect to technical changes table ?**

**Visual inspection of electronic key :**

- Check condition of key; check that key is securely engaged in transmitter cover

**Electronic key in good condition ?**

Symbols:

- Continue diagnosis
- Stop diagnosis
- P.M.: Preventive maintenance

Additional information

- n°10 Torx or n°2 posidriv screwdriver
- DialogUD software v5.1 minimum Udwr36
- Programming tool PO1527

Further details:

- Spare part or accessory for technical upgrade
- UDWE22 V/X electronic key
- See procedure SN260260
- See procedure SN260205
- See housing replacement procedure SN260260
- See Upgrading UDE SN260230
- Updating UDE internal soft. (only for JAY electronique plant) SN260235
- n°10 Torx or n°2 posidriv screwdriver

Housing bottom or PR0212 6/10 equipped cover or PR0215 6/10/10T (no IR) equipped housing (P.M)

Protective foams or PR0143 protective foams (P.M)

Update UDE internal soft. only for JAY electronique plant

Check for absence of grime or cracks on the half-shells

Housing in good condition ?

- PR0209 6/10 (no IR) equipped cover or PR0210 6/10 (IR)
- PR0217 6/10/10T (IR) equipped housing (P.M)

Protective foams in good condition ?

- PR0212 6/10
- PR0215 6/10/10T (no IR)

Housing seal in good condition ?

Electronic key in good condition ?

Continued on page 2
Check function and "On/horn" buttons:
Check condition of the capsules (tightness), push-in and rotary operation (check for automatic return on COM3R, if applicable).

Function buttons in good condition? no

Check function labels:
Check label readability and general condition

Labels in good condition? no

Check of ribbon cable connections:
Check ribbon cables are securely engaged in connectors on IHM board and motherboard.

All ribbon cables properly connected? no

Record this information on the intervention sheet and correctly connect the ribbon cables

Check of power supply contact pins:
Check the condition of the 2 UDB2 connection pins, and the overall condition (oxygenation)

Power supply contact pins in good condition? no

Mechanical check of stop palmswitch button
Check that stop palmswitch locks and unlocks correctly

Stop palmswitch button in good condition? no

Electrical check of stop palmswitch button

Electrical check is ok? no

From D001 version, stop palmswitch pistons are in good condition? no

continued on page 3
- Close the housing, stop palm switch button and install a charged battery pack.

- Lock the transmitter stop palm switch button and supply the I.H.M. board with the power supply set for 4V (100mA mini).

- Unlock the transmitter stop palm switch button.

- Red and green led off?
  - yes
  - no

- Red and green led still off?
  - yes
  - no

- Test sub-assemblies (page 7)

- Press the "ON" button after 15s (after having unlocked the stop palm switch button)

- Green led on steady?
  - yes
  - no

- Green led flashes?
  - yes
  - no

Test of battery pack "charge" detection thresholds

- If not already done, supply the transmitter using the variable power supply set for 4V (100mA mini).

- Gradually decrease the supply voltage while locking then unlocking the transmitter stop palm switch button (check performed on each start-up).

- Decrease the voltage until the red led flashes slowly.

- Power supply voltage measured in this case is between 3,4V and 3,9V

- No

- see procedure to change the motherboard SN260350 or SN260355 (IR)

- 2,5mm Allen wrench

- Stabilized power supply

- PR0207 0 (w/out IR)
- PR0207 1 (with IR)

- PRODUCT INTERVENTION SHEET TO BE COMPLETED sub-assy to be replaced

- Symbols:
  - Continue diagnosis
  - Stop diagnosis
Set the power supply voltage for 4V

Re-start the transmitter (lock + unlock) and press the "on" button. Decrease the voltage until the red led flashes quickly.

Power supply voltage is under < 3,40V ?
- yes
- no

Decrease the voltage again until the red and green leds go off

Power supply voltage is under < 3,30V ?
- yes
- no

Gradually increase the power supply voltage until the green and red leds come on (by flashing 5 times, indicating that there was a cut of supply)

Power supply voltage is above > 3,4V ?
- yes
- no

---

Radio module check

Use the charged battery pack or connect a stabilized power supply set for 4V to the IHM board

Use the test UDR receiver

Program an electronic key with receiver parameters (same ID code and same radio channel)

Go to "Test" menu in DialogUD software (check of radio quality rate)

Unlock the transmitter stop palswitch button and press the "on" button

Radio quality rate = 100 % ?
- yes
- no

Install the transmitter test radio module in place of the radio module

Unlock the transmitter stop palswitch button and press the "on" button

Radio quality rate = 100 % ?
- yes
- no

---

See procedure to change radio module SN260360

continued on page 5

Symbols:
➡️ Continue diagnosis
➡️ Stop diagnosis

See procedure to change the motherboard SN260350 or SN260355 (IR)
Do you have the means to measure the radio module characteristics?

- Yes
- No

Radio module more than 5 y old?

- Yes
- No

Customer has reported transmission cutouts?

- Yes
- No

Test radio module using test bench

Radio module performance sufficient?

- Yes
- No

IR start-up option present?

- Yes
- No

Switch off the receiver and connect the test IR module to the test receiver

Set the serial option switch to "RS232" mode. Switch on the receiver.

In the "Dialog UD" software, go to "UDR parameters" menu and tick the "IR startup" option.

Set the serial option switch to "Normal" mode.

Place the key corresponding to test receiver on UDE. Unlock the stop palm switch button and press the "on" button. Point the UDE toward the test UDF at a distance of around 3 meters.

Test receiver safety relays pull in and red led of test UDF flashes?

- Yes
- No

Test receiver safety relays pull in and red led of test UDF flashes?

- Yes
- No

Clean the UDE IR transmission lens and repeat the test

Test receiver safety relays pull in and red led of test UDF flashes?

- Yes
- No

On intervention sheet, record "IR transmission lens soiled"

- Set serial option in "RS232" mode
- De-program the IR start-up on receiver
- Switch off receiver
- Disconnect the test IR module from receiver

Symbols:

- Continue diagnosis
- Stop diagnosis

Continued on page 6
Check of button states

Use test receiver and program the button/relay correspondence according to transmitter button configuration.

Unlock the transmitter stop palmswitch button, press the "on" button and actuate the function buttons one by one (1st, 2nd speed for BPDV) and any rotary switches which may be present.

Check that actions on transmitter buttons/switches are transmitted to receiver relays.

Actions transmitted correctly?

- no
  - Proceed by a substitution of the faulty button

Problem stills here?

- no
  - END of diagnosis.
  - After repair, perform final test: doc. SJ260060

- yes
  - Button mechanical kit in good condition?

- no
  - END of diagnosis.
  - After repair, perform final test: doc. SJ260060

- yes
  - END of diagnosis.
  - After repair, perform final test: doc. SJ260060

Symbols:
- Continue diagnosis
- Stop diagnosis

See procedure to change button board SN260320

See procedures to change mechanical kits SN260290 or SN260300

PR0117 x
Button board type x

See procedures to change mechanical kits SN260290 or SN260300

PR0207 0 (w/out IR)
PR0207 1 (with IR)

motherboard

PR0057 BP
PR0057 COM

Mechanical kit

2.5mm Allen wrench

POZIDRIV N°1 screwdriver

See procedure to change the motherboard SN260350 or SN260355 (IR)
Functional test of UDE sub-assemblies

Sub-assemblies test

No led lit?

Test the stop palmswitch button as instructed in SN260250

Stop palmswitch button functional?

Substitute the motherboard and large ribbon cable (connected to IHM) by a test motherboard and test ribbon cable

Leds still off?

Copy electronic key ID code in test motherboard following procedure (see installation manual / or corrective-additive sheet)

Unlock the transmitter stop palmswitch

Leds still off?

Copy electronic key ID code in test motherboard following procedure (see installation manual / or corrective-additive sheet)

Unlock the transmitter stop palmswitch

Leds flash 5 or 6 times?

Check that battery pack is securely mounted in transmitter back. In the event of incorrect contact, these microcutouts will generate an "stop palmswitch button" error

Battery pack securely installed in the back of the transmitter?

Test the stop palmswitch button as instructed in SN260250

Stop palmswitch button functional?

Green led on?

Substitute the large ribbon cable by the test ribbon cable, lock then unlock the stop palmswitch button, and press the "on" button

Red led off and green led flashes regularly?

See procedure to change transmitter housing cover SN260260

See procedure to change transmitter housing cover SN260260

See procedure to change transmitter housing cover SN260260

See procedure to change transmitter housing cover SN260260

Symbols:

: Continue diagnosis

: Stop diagnosis

PRODUCT INTERVENTION SHEET TO BE COMPLETED

sub-assy to be replaced

PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover

PR00116 Transmitter connection kit

PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard

PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover

PR0212 6 /10 Housing bottom
or PR0230 (bat.pack spring)

PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover

PR00116 Transmitter connection kit

PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover

PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard

UDWE22 V/X
Electronic key

continued on page 8
### UDE final test after intervention

**START**

1. Install a charged battery pack in the UDE back.
2. Unlock the stop palm switch button.
3. Transmitter green led comes on steady?
   - yes -> Press transmitter "on" button.
   - no -> Transmitter green led flashes?
     - yes -> Press transmitter stop palm switch button.
     - no -> (go to **UDE functional check** in document SJ260050).
4. Green led goes off?
   - yes -> Test electronic key must be programmed with test UDR receiver parameters and placed in transmitter UDE housing.
   - no -> Switch on test receiver.
5. Go to "Test" menu in DialogUD software.
6. Unlock stop palm switch button and press "on" button.
7. Radio quality rate = 100 %?
   - yes -> Safety and horn relays pull in when transmitter "on" button is pressed?
   - no -> Actuate the function buttons or switches one by one.
   - yes -> All actions transmitted?
   - no -> IR start-up option present?
     - yes -> Equip the test receiver with a UDF and program it as follows:
       - IR start-up option.
     - no -> Press green "on" button while pointing the UDE toward the test receiver (3m min. distance between UDE and UDF).
   - yes -> Press the stop palm switch button.
8. Receiver safety and horn relays pull in?
   - no -> Repeat the test at a distance of around 20 m (range test).
   - yes -> Fill in the repair labels and fasten them to the transmitter, then fill in the intervention sheet.

**END**

---

**Key:**
- no = Test is negative, repeat technical diagnosis on product (doc.: SJ260050)

---

**Tools:**
- Test UDR receiver + test electronic key (programmed with soft, DialogUD and programming tool PO1527)
Upgrading transmitter internal program

This update allows:

- a bug fix on UDE in C001 version equipped with the option "startup by IR" (update C001 version to C002)
- Authorization of the use of an electronic key with a button configuration different from that physically present on the transmitter (update D001 to D002).

**Important: this upgrade can only be performed by JAY Electronic personnel using specific tools.**

For this purpose, simply connect the grey programming key (connected to bench) to the UDE transmitter and modify the program using the DialogUD software.

1- Start the DialogUD software and go to the "key and UDE parameters" tab

2- To change the software version of the transmitter, simply click the "Change software version" button. The screen shown opposite is displayed.

   Click "Bootload UDE".

3- After clicking "Bootload UDE", a panel opens in order to select a file to be loaded.

   Select the file and click "select". The software upgrade is automatically run.

**Once the upgrade is completed:**

> If the transmitter is a part of a complete upgrade passage of C001 version to D002 or if it is about the upgrade D001 to D002, please redo two UDE descriptive labels so that those contain the correct «D002» version number.

> If the upgrade concerns only a bug fix on UDE C001 version + IR, please redo two descriptive labels UDE so that those contain the correct «C002» version number.
Connecting a power supply to transmitter UDE + battery threshold test

- Open UDE housing with TORX N°10 screwdriver and remove protective foams
- Unlock the stop palmswitch button

Stabilised power supply

```
4 Vdc
```

Fine adjustment

Coarse adjustment

```
Vdc
```

fig.1

Connecting a power supply to transmitter UDE

Before pressing the «On/Horn» button

«Low battery» threshold : 3,4VDC < Vp.s. < 3,9VDC

Switched on (after pressing the «On/Horn» button)

«Low battery» threshold : Vp.s. < 3,4VDC
«RESET» threshold (Transmitter switched off) : Valim < 3,3VDC

- Open UDE housing with TORX N°10 screwdriver and remove protective foams
- Unlock the stop palmswitch button
Test of UDE stop palmswitch button

version A001 to C002 included:

1- Open the UDE housing using the No. 2 pozidriv screwdriver.
2- Disconnect the power supply wires.
3- Disconnect the ribbon cable linking the IHM board to the stop palmswitch button.
4- Lock the stop palmswitch button (down position).
5- Using a digital multimeter, measure the continuity across points 1 and 3, then 2 and 4: resistance should be infinite.
6- Unlock the stop palmswitch button (up position).
7- Using a digital multimeter, measure the continuity across points 1 and 3, then 2 and 4: the resistance should be null.
8- Reconnect the power supply wires.
9- Reconnect the ribbon cable linking the IHM board to the stop palmswitch button.

From version D001:

1- Open the UDE housing using the No. 10 Torx screwdriver.
2- Disconnect the 12-pins ribbon cable linking the IHM board to motherboard.
3- Lock the stop palmswitch button (down position).
4- Check the condition of 3 pistons.
5- Using a digital multimeter, measure the continuity across points 12 and 11, then 12 and 10: resistance should be infinite.
6- Unlock the stop palmswitch button (up position).
7- Using a digital multimeter, measure the continuity across points 12 and 11, then 12 and 10: the resistance should be null.
8- Reconnect the 12-pins ribbon cable.
Changing UDE equipped cover and equipped housing

Tools : ...............n°10 Torx screwdriver, n°1 Pozidriv screwdriver

Equipped housing cover :

<table>
<thead>
<tr>
<th>Housing cover</th>
<th>+ 6 or 10 mounted BPxx (pushbuttons) with mechanical part</th>
<th>+ &quot;On/Horn” button (mechanical part)</th>
<th>+ IHM board</th>
<th>+ Stop palm switch button (mechanical part)</th>
<th>+ Housing seal</th>
<th>+ 2 pre-print descriptive labels</th>
<th>+ IR window for UDE with IR start-up option</th>
</tr>
</thead>
</table>

Equipped housing :

<table>
<thead>
<tr>
<th>Housing cover</th>
<th>+ «6 mounted BP» or «10 mounted BP» or «9 mounted BP + 1 mounted BPTR (3 pos. elec. switch) at location nb.8 + label» (mechanical part)</th>
<th>+ «On/Horn» button (mechanical part)</th>
<th>+ IHM board</th>
<th>+ Stop palm switch button (mechanical part)</th>
<th>+ Housing seal</th>
<th>+ 2 pre-print descriptive labels</th>
<th>+ IR window for UDE with IR start-up option</th>
<th>+ Housing bottom</th>
</tr>
</thead>
</table>

Disassembly :

If the transmitter version No. is lower than D001, perform the upgrade procedure given in document SN260230. Remove the parts to be kept using a POZIDRIV No. 1 and No. 2 screwdriver.

or

For a transmitter version No. D001 or higher: use a Torx No. 10 and Pozidriv No. 1 screwdriver to remove and set aside the motherboard, the transmitter radio module, the button boards, the 12-contact ribbon cable (connecting motherboard and IHM board), the fastener, the battery pack and the electronic key.

Assembly :

1- If button configuration is incomplete or different from cover/housing kits, re-assemble original mechanical parts or install new mechanical kits (to upgrade the version for example), see assembly procedure from document SN260290 and SN260300.
2- Replace and screw all original button boards in the housing.
3- If the transmitter is equipped with the IR start-up option :
   3.1- Fill in pre-printed descriptive labels and fasten them to locations indicated in document SN260380.
   3.2- Assemble IR start-up option as instructed in document SN260355.
   3.3- Insert the electronic key if present.
   3.4- Connect the battery pack.

If the transmitter is not equipped with the IR start-up option :

3.1- Fill in pre-printed descriptive labels and fasten them to locations indicated in document SN260380.
3.2- Reconnect the ribbon cable linking the last button board to the motherboard (bottom connector).
3.3- Install the assembly formed by the motherboard/radio module in the elastic supports on the cover.
3.4- Connect 12-pins ribbon cables linking the motherboard to the IHM board.
3.5- Close the housing.
3.6- Install housing protective foams according to assembly procedure in document SN260265.
3.7- Insert the electronic key if present.
3.8- Connect the battery pack.

References :
PR0209 6 ...... UDE equipped cover 6+2 bt w/out IR
PR0208 10 ... UDE equipped cover UDE 10+2 bt w/out IR
PR0210 6 ...... UDE equipped cover UDE 6+2 bt with IR

References :
PR0215 6 ....... UDE equipped housing 6+2 bt without IR
PR0215 10 ...... UDE equipped housing 10+2 bt without IR
PR0217 10T .... UDE equipped housing+BPTR 10+2 bt without IR
PR0217 6 ...... UDE equipped housing 6+2 bt with IR
PR0217 10 ...... UDE equipped housing 10+2 bt with IR
PR0217 10T .... UDE equipped housing+BPTR 10+2 bt with IR

Tools : .............n°10 Torx screwdriver, n°1 Pozidriv screwdriver

(Under this figure shows a 6+2bt transmitter equipped housing cover)

(Under this figure shows a 6+2bt transmitter equipped housing)
Changing the UDE protective foams

Protective foams kit
Reference : ................................................................................ PR0143
Tools : .......................................................... n°10 Torx screwdriver (UDE since v.D001)
or Pozidriv n°2 (UDE v.A001 to C002), cutter.

Parts list :

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Insert for upper foam</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Upper protective foam</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Lower protective foam</td>
<td>1</td>
</tr>
</tbody>
</table>

Disassembly :
1- Disconnect the battery pack.
2- Open the UDE housing with a n°10 Torx screwdriver (UDE since v.D001) or Pozidriv n°2 (UDE v.A001 to C002) and separate the cover and the housing back.
3- Remove protective foams.

Assembly :
1- If transmitter was not equipped with foams before (UDE version lower than B001 i.e.), else go to point no 2 :
   1.1- Cut the housing seal with scissors or cutter at points (X) (fig.2), as per the following drawings (fig.3) :

2- Place insert through the upper protective foam and fasten it to the cover (fig.4)
3- Slide the housing back above the cover taking care to maintain the insert of the upper foam in the cover (if necessary, fold slightly the upper foam) (fig.5).
   (UDE version before 2004 : take care not to pinch the electric wire during this operation)

4- Close the housing (the lower foam may be placed after closing).
5- Place the lower foam on the lower part of housing back. Lower foam must correctly coat the stop palmswitch button, and the housing fastening must be inserted through the holes of protective foam.
6- Connect the battery pack.

---

Index Modif. No. Modification Name Date Approved by:
01 T 727 new IHM board from D001 version new foams sinc v.D003 E.DECHAME 17.11.04 Tech:

---

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Changing pushbutton mechanical part (for BPSV, BPDV and BPTR)

Pushbutton mechanical part kits :
Reference : .......................................................... PR0057 BP
Tools : ........... n°10 Torx screwdriver and n°1 Pozidriv screwdriver

Parts list :

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Black capsule</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td>Self-tapping screw 1.8 x 6</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>Capsule ring</td>
<td>10</td>
</tr>
<tr>
<td>D</td>
<td>Button lever</td>
<td>10</td>
</tr>
</tbody>
</table>

Note : The mechanical kit for the "On/Horn" pushbutton (green) is contained in the "equipped covers" and "equipped housings" kits (for UDE version D001 and higher).

Disassembly :

1- Disconnect the battery pack.
2- Open the UDE housing using the No. 2 Pozidriv (UDE version A001 to C002 included) or n°10 Torx screwdriver (from UDE version D001), and remove protective foams.
3- The button card for the concerned button mechanical kit must be removed. Perform the button board disassembly procedure detailed in document SN260320.
4- Remove the screw securing the pushbutton mechanical kit using the No. 1 Pozidriv screwdriver and remove the assembly formed by the lever+ring+capsule.

Assembly :

1- Insert the capsule in the housing cover through the inside (fig.2).
2- Install the lever in the capsule ring (fig.3).
3- Place the assembly formed by the lever + ring in the pushbutton mounting position in the housing (fig.4).
4- Press on point P1 of the ring to engage it correctly in the pushbutton capsule.
5- Screw in the assembly gently up to the stop (caution: ring body should not bend at points P2).
6- Proceed to reinstall the button board according to document SN260320.
7- Install protective foams (see doc. SN260265) and close the housing.
8- Connect the electronic key if necessary.
9- Connect the battery pack.

Changing the pushbutton mechanical kit UDE

SN 260290.02
Changing rotary switch mechanical part (for COM2, COM3 and COM3R)

Rotary switch mechanical kit:
Reference: PR0057 COM
Tool: n°10 Torx and n°1 Pozidriv screwdriver, cutter and flat angled plier

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Rotary switch</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>Mounting screw</td>
<td>5</td>
</tr>
<tr>
<td>C</td>
<td>Lip seal</td>
<td>5</td>
</tr>
<tr>
<td>D</td>
<td>Cam</td>
<td>5</td>
</tr>
<tr>
<td>E</td>
<td>Spring</td>
<td>10</td>
</tr>
</tbody>
</table>

Disassembly:
1- Disconnect the battery pack.
2- Open the UDE housing using the No. 2 Pozidriv (V.A001 to C002) or n°10 Torx (from v.D001) screwdriver and remove protective foams.
3- Remove the button board corresponding to the mechanical kit to be replaced; perform the procedure for disassembly of the button boards detailed in document SN260320.
4- Remove the screw securing the kit using the No. 1 Pozidriv screwdriver and remove the rotary switch mechanical assembly (switch + seal, cam and spring if present).

Assembly:
1- If the switch to be installed is a 3-position rotary switch, else go to point n°2:
cut the pin on the cam (fig.2) using the cutter; no surplus thickness should remain.

2- Fit the cam in the switch hole as shown in fig.3 with the pin toward the center of the housing.

3- Fit the lip seal on the switch observing the correct mounting direction.

4- Holding the cam in position (pin toward center of housing), turnover the housing and place the seal/switch assembly in position in the cam housing.
Fit the seal/switch assembly so that the long part of the switch is pointing toward the top of the housing (fig.6)

5- Install the mounting screw using the No. 1 Pozidriv screwdriver.
6- If the switch is a COM3R switch (3 positions with automatic return), else go to point n°7:
Insert 1st spring in rotary switch slot (see picture below), then turn the switch to the limit position in the other direction and install with a flat angled plier the other spring in the same way, compressing the first spring as much as possible.

7- Install the button board as instructed in document SN260320.
8- Install protective foams (see doc. SN260265) and close the UDE housing.
9- Connect the battery pack.
Changing the stop palmswitch button on UDE version A001 to C002 included

Stop palmswitch button:
Reference: PR0115
Tools: n°2 Pozidriv screwdriver and specific tool ref: PR0130.

Parts list:
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Stop palmswitch button</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Nut</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Seal</td>
<td>1</td>
</tr>
</tbody>
</table>

Nota: From UDE version D001, the stop palmswitch is contained in the "equipped covers" and "equipped housings" kits, see doc. SN260260.

Disassembly:
1- Disconnect the battery pack.
2- Open the UDE housing using the No. 2 Pozidriv screwdriver and remove protective foams.
3- Disconnect the power supply wires from the UDE.
4- Disconnect the ribbon cable linking the IHM board to the stop palmswitch button.
5- Unscrew the stop palmswitch button locking ring using tool PR0130 and a screwdriver.
6- Remove the stop palmswitch button assembly and its seal.

Assembly:
1- Insert the assembly formed by the stop palmswitch button + seal in the transmitter cover (paying attention to mounting direction; see fig. 2, locating pin).
2- Screw in and block the locking ring using tool PR0130 and a screwdriver.
3- Connect the ribbon cable linking the IHM board to the stop palmswitch button.
4- Connect the power supply wires.
5- Install protective foams (see doc. SN260265) and close the housing.
6- Connect the battery pack.
7- Proceeded to test, person protection must be assured during these.
Changing the button board

Button boards:
References: ................................................................. PR0117 *

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Self-tapping screw 3x8</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Button board type x</td>
<td>1</td>
</tr>
</tbody>
</table>

Tools: ...................... n°10 Torx and n°1, n°2 Pozidriv screwdrivers.

Disassembly:

1- Disconnect the battery pack.
2- Open the UDE housing using the n°10 Torx or n°2 Pozidriv screwdriver, and remove protective foams.
3- For UDE version lower than D001: disconnect the power supply wires.
4- Disconnect the ribbon cable linking the motherboard to the IHM board.
5- Remove the screw securing the button board to be replaced.

**Button board to be replaced is connected to motherboard:**

5.1- Pivot the button board and disconnect the ribbon cable connecting it to the lower button board.
5.2- Remove the assembly formed by the radio module / motherboard + button board and disconnect the ribbon cable connecting them, go to point n°6.

**Button board to be replaced is located between other button boards:**

5.1- Pivot the board and disconnect the ribbon cable linking it to the lower button board.
5.2- Remove the screw securing the upper button board, pivot it and disconnect the ribbon cable linking it to the button board to be replaced, go to point n°6.

**Button board to be replaced is located above the IHM board:**

5.1- Remove the screw securing the upper button board, then pivot it and disconnect the ribbon cable linking it to the button board to be replaced.
6- Remove the button board.

Assembly:

1- **Button board replaced is located just below the motherboard:**

1.1- Connect the button board to the assembly formed by the radio module + motherboard
1.2- Connect the ribbon cable from the lower button board to the button board replaced.
1.3- Insert the assembly formed by the radio module + motherboard in the resilient mountings on the housing, go to point n°2.

**Button board replaced is located between other button boards:**

1.1- Connect the ribbon cable from the button board replaced to the upper board.
1.2- Connect the ribbon cable from the lower board to the button board replaced, go to point n°2.

**Button board replaced is located just above the IHM board:**

1.1- Connect the ribbon cable from the board replaced to the connector on the upper button board.

2- Install the button boards in the cover and screw them to the housing.
3- Connect the ribbon cable linking the motherboard to the IHM board.
4- For UDE version lower than D001: connect the power supply wires.
5- Install protective foams (see doc. SN260265) and close the housing.
6- Connect the battery pack.
Changing the motherboard (without IR start-up option)

Motherboard (without IR start-up option) kit:
Reference: .................................................................................. PR0207 0
Tools: ............................................................................ n°10 Torx, 2.5mm Allen wrench.

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>UDE motherboard no IR</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Allen screw</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Washer</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Spacer</td>
<td>1</td>
</tr>
</tbody>
</table>

Disassembly:
1- Disconnect the battery pack.
2- Open the UDE housing using the No. 10 Torx screwdriver and remove protective foams.
3- Disconnect the ribbon cable linking the motherboard to the IHM board.
4- Grasp the assembly formed by the motherboard + radio module and gently disengage it from its resilient mountings.
5- Disconnect the ribbon cable linking the motherboard to the last button board.
6- Remove the Allen screw using the 2.5mm Allen wrench.
7- Separate the two parts: radio module and motherboard.

Assembly:
1- Connect the replaced motherboard to the radio module.
2- Install the spacer between the motherboard and the radio module (fig.2).
3- Install the washer and the Allen screw (fig.2).
4- Connect the ribbon cable from the last button board to the motherboard.
5- Install the assembly formed by the motherboard / radio module in the resilient mountings of the cover.
6- Connect the ribbon cable linking the motherboard to the IHM board.
7- Install protective foams (see doc. SN260265) and close the housing.
8- Connect the battery pack.
Changing the motherboard (with IR start-up option)

Motherboard with IR start-up option kit:
Reference: PR0207 1
Tools: n°10 Torx screwdriver, 2.5mm Allen wrench, flat angled plier

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Self-tapping screw 3x8</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Allen screw</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Spacer</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Washer</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>IR window</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Pins</td>
<td>2</td>
</tr>
<tr>
<td>G</td>
<td>Mother equipped with IR start-up option</td>
<td>1</td>
</tr>
<tr>
<td>H</td>
<td>Seal</td>
<td>1</td>
</tr>
</tbody>
</table>

Disassembly:
1- Disconnect the battery pack.
2- Open the UDE housing using the No. 10 Torx screwdriver, and remove protective foams.
3- Disconnect ribbon cables linking the IHM board to the motherboard.
4- Grasp the motherboard + radio module assembly and carefully disengage it from its resilient mountings.
5- Disconnect the ribbon cable linking the motherboard to the last button board.
6- Apply pressure between the LED circuit and the housing to compress the seal.
7- While applying pressure using a flat angled plier, LED circuit and the IR window must be released from transmitter housing.
8- Remove the Allen screw using the 2.5mm Allen wrench.
9- Separate the two parts: radio module and motherboard.

Assembly:
1- Connect the replaced motherboard to the radio module.
2- Install the spacer between the motherboard and the radio module (fig.2).
3- Install the washer and the Allen screw (fig.2).
4- Insert the IR window on the LED circuit, observing the mounting direction given by the pins (see fig.3).
5- Place the seal on the IR window with the flat part against the lens (see fig.3).
6- Fit the assembly formed by the LED circuit/lens/IR window in the UDE housing (see fig.4).
7- While applying pressure using a flat angled plier, insert the two pins in the housing ribs observing the mounting direction (see fig.5); the pin locators should clip into the holes in the circuit (see fig.6).
8- Install the assembly formed by the IR motherboard + radio module in the transmitter inserts and connect the last button to this assembly.
9- Connect the ribbon cable linking the motherboard to IHM board.
10- Install protective foam (see doc. 2600265) and close the transmitter housing.
11- Connect the battery pack.
Changing the transmitter radio module

Radio module kit:
Reference: PR0120 E
Tools: n°10 Torx or n°2 Pozidriv screwdriver, 2.5mm Allen wrench.

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Allen screw</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Washer</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Spacer</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Radio module</td>
<td>1</td>
</tr>
</tbody>
</table>

Disassembly:

1- Disconnect the battery pack.
2- Open the UDE housing using the n°10 Torx (D001 vers. and higher) or n°2 Pozidriv screwdriver, and remove protective foams.
3- Grasp the assembly formed by the motherboard + radio module and gently disengage it from its resilient mountings.
4- Remove the Allen screw using the 2.5mm Allen wrench.
5- Disconnect and remove the radio module from motherboard.

Assembly:

1- Connect the replaced radio module to motherboard.
2- Install the spacer between the motherboard and the radio module (fig.2).
3- Install the washer and the Allen screw (fig.2).
4- Install the assembly formed by the motherboard / radio module in the resilient mountings of the cover.
5- Install protective foams (see doc. SN260265) and close the housing.
6- Connect the battery pack.

Index Modif. No. Modification Name Date Approved by:
02 T 727 Update, from D001 version E.DECHAME 15.06.04 Tech:

Changing the radio module

UDE

Fig.1

Fig.2

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1- Repair label

Two repair labels must be filled in and applied to the transmitter (see location in § 3).

Repair labels must be applied after each intervention (under warranty or not)

Repair labels can be ordered under reference: PR0229 (a roller of 1000 labels)

<table>
<thead>
<tr>
<th>Product checked on:</th>
<th>Date of intervention day, month, year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of certified repair center and technician initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>by</td>
</tr>
</tbody>
</table>

2- UDE transmitter, electronic key and appaired UDR receiver descriptive labels

If the unit has been transformed, the information on the transmitter and receiver nameplates must be changed accordingly. To do so, use blank nameplates, filled in as follows:

<table>
<thead>
<tr>
<th>UDE main reference and complementary reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old serial nb</td>
</tr>
<tr>
<td>Old date</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UDR main reference and complementary reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old serial nb</td>
</tr>
<tr>
<td>Old date</td>
</tr>
</tbody>
</table>

| Key number                                      |
| Key ID code                                     |
| Radio channel                                   |
| Coupled T.crane option : Associated receiver ID code (0000 if option not used) |

<table>
<thead>
<tr>
<th>Identification number (product file version number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>If update, write the last version number.</td>
</tr>
<tr>
<td>If repair without update, write the old version number.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID code</th>
<th>Power supply voltage</th>
<th>Version number (code)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UDE version nb</th>
</tr>
</thead>
<tbody>
<tr>
<td>(si comments upper, as UDE version nb)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ref: UDE . . . .</th>
<th>Freq: 433,050 . . . 434,790MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serie: IP65</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ref: UDR . . . .</th>
<th>Code: . . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freq: 433,050 . . . 434,790MHz</td>
<td></td>
</tr>
<tr>
<td>Serie: Alim: . . .</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code pont couplé</th>
<th>Masque</th>
<th>Coupled T.crane option : Associated receiver ID code (0000 if option not used)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3- Location of repair labels and descriptive labels on UDE transmitter housing

---

![Diagram of UDE transmitter with repair labels and descriptive labels shown]
KEEP THIS DOCUMENT

Read and keep this document in a safe location.
It contains important information concerning the key which you have just received.

For operation of your radio remote control, refer to the UD installation and user manual.

An identification No. is engraved on the side of the electronic key.
This key contains all the parameters of your transmitter, ensuring correct communication with the associated receiver (Frequency channel, identification code, dead man time ...)

Please indicate this identification No. when ordering a new identical key.

Please identify your electronic key using the label supplied with the key.

Fill in the identification of the equipment controlled by this key.

UDE transmitter
electronic key

Electronic key parameter label :
(to be sticked by the repairman)

(6-digit number engraved on electronic key)

Equipment :
(to be filled in by the customer)
**LE 26/07/2004 A 18:33:53 EDITION DE DOSSIER**

**DOSSIER** : DOSGEN R27 E 003  
UD REPAIR DATA PACKAGE : UDR RECEIVER PART

**ARTICLE** : DOSGEN R27

**FOURNISSEUR** : 38JA10  
JAY ELECTRONIQUE S.A.

**ETAT** : VALIDE ET ACTIF  
176 RUE LAVOISIER  
38330 MONTBONNOT ST MARTIN

**COMMENTAIRE** :

**DATE CREATION** : 26.07.2004
**DATE ENVOI FRS** : 00.00.0000
**DATE DE FIN** : 00.00.0000
**CONSULTAT. FRS** : 00.00.0000
**DATE ACC.RECEPT** : 00.00.0000

**DOSSIER SOURCE** : E 002

**DOSSIER GENERAL DE PRODUCTION** :

**LIGNES ASSOCIEES**

<table>
<thead>
<tr>
<th>N°ORDRE</th>
<th>DOCUM/OUTIL</th>
<th>ETAT</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>* 01</td>
<td>SN 270070 02 V</td>
<td>LIST OF TOOLS REQUIRED FOR REPAIR</td>
<td>UDR</td>
</tr>
<tr>
<td>* 02</td>
<td>SN 270075 00 V</td>
<td>DETERMINE VERSION OF UDR RECEIVER</td>
<td>UDR</td>
</tr>
<tr>
<td>* 03</td>
<td>SE 270020 02 V</td>
<td>EXPLODED VIEW / UDR VERSION A001 TO B002 INCL.</td>
<td>UDR</td>
</tr>
<tr>
<td>* 04</td>
<td>SE 270021 00 V</td>
<td>EXPLODED VIEW / UDR VERSION B003 AND HIGHER</td>
<td>UDR</td>
</tr>
<tr>
<td>* 05</td>
<td>SE 270200 00 V</td>
<td>ACCESSORIES AND SPARE PARTS</td>
<td>UDR</td>
</tr>
<tr>
<td>* 06</td>
<td>SN 270080 02 V</td>
<td>CHANGES TO RECEIVERS</td>
<td>UDR</td>
</tr>
<tr>
<td>* 07</td>
<td>SJ 270040 02 V</td>
<td>QUICK TEST BEFORE INTERVENTION</td>
<td>UDR</td>
</tr>
<tr>
<td>* 08</td>
<td>SJ 270050 02 V</td>
<td>TECHNICAL DIAGNOSIS</td>
<td>UDR</td>
</tr>
<tr>
<td>* 09</td>
<td>SJ 270060 02 V</td>
<td>FINAL TEST AFTER INTERVENTION</td>
<td>UDR</td>
</tr>
<tr>
<td>* 10</td>
<td>SN 270090 02 V</td>
<td>CHANGING THE RECEIVER HOUSING</td>
<td>UDR</td>
</tr>
<tr>
<td>* 11</td>
<td>SN 270095 01 V</td>
<td>CHANGING THE UDF IF MODULE ELECTRONIC BOARD</td>
<td>UDF</td>
</tr>
<tr>
<td>* 12</td>
<td>SN 270105 02 V</td>
<td>CHANGING THE RECEIVER MOTHERBOARD</td>
<td>UDR</td>
</tr>
<tr>
<td>* 13</td>
<td>SN 270110 02 V</td>
<td>CHANGING THE RECEIVER RADIO MODULE</td>
<td>UDR</td>
</tr>
<tr>
<td>* 14</td>
<td>SN 270120 02 V</td>
<td>MARKINGS ON REPAIRED RECEIVER</td>
<td>UDR</td>
</tr>
</tbody>
</table>
List of tools required for repair of receiver UDR

**Mechanical part:**
- 6mm flat-tip screwdriver (for fuse-holder)
- No.1 POSIDRIV screwdriver (for radio module mounting screws)
- No.2 POSIDRIV screwdriver (for screws securing housing, motherboard and IR module)
- No.10 TORX screwdriver (for screws securing IR module electronic board)
- 16mm box spanner (for BNC connector)
- 2.5mm Allen wrench (for antenna unit screw)
- Electronics flat noise pliers (for plastic spacers of housing)
- Kit of 2 spanners, ref. : PR0142 comprising :
  - spanner for assembly / disassembly PG29 plastic cable gland
  - spanner for assembly / disassembly serial option
- Soldering iron (for UDF electronic board)

**Measurement and test part:**
- Stabilised power supply 12-24VDC / 1 A min
- AC power supply, 24-48VAC / 20 VA
- Digital multimeter
- Test transmitter UDE, ref. : UDE122222 010
- Test IR module, ref. : UDF1
- Serial link accessory, ref. : UDWR32
- «Dialog UD» software, v5.1 minimum, ref. : UDWR36
- PC microcomputer equipped with a serial port COM
- Test receiver radio modules, ref. : PR0120 R (for UDR version A001 to B002 included)
  PR0208R (for UDR version B003 and higher)
- Test relay board, ref. : PR0122

---

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Determine version number of UDR receiver, receiver mother board and UDF IR module

These version numbers identify product versions and therefore their various technical changes.

The table of technical changes (doc. SN270080) indicates all the upgrades which you need to perform on the UDR receiver in accordance with its version number.

1- UDR receiver
The version number is indicated on the nameplate, fastened to the receiver housing and inside receiver housing.

2- Receiver mother board
The version number is indicated on a label, fastened on PCB, close to power supply terminals strips.

3- UDF IR module
The version number is indicated on the nameplate, fastened to the UDF housing.
UDR exploded view for version A001 to B002 included

Note 1: The figure below shows a receiver with housing for serial link option.
Note 1: The figure below shows a receiver with housing for serial link option.

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>T 727</td>
<td>First issue</td>
<td>E.DECHAME</td>
<td>01.07.04</td>
<td>Tech:</td>
</tr>
</tbody>
</table>

Explored view of receiver
UDR version B003 and higher

400MHz antenna
VUB084

1/4 wave

Serial link option
PR0138

Board with 6 function relays
PR0122

Auxiliary relay board for options:
- Horn°2
- μSpeed
- Coupled T.cranes
- Transfer T.crane

Receiver motherboard
PR0124 *

* : 4 = 24-48 VDC
A = 24-48 VAC
B = 115 - 230 VAC

Receiver fuse kit
PR0123

Auxiliary relay board

Equipped receiver housing
PR0125
PR0125 1

- standard housing
- housing for serial link option (with hole for PR0138 option)

Rubber cable gland
PR0127

BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

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Various accessories and spare parts for UDR receiver

Antenna and cable extension

- 10m cable gland kit for UDF module
  - UDWR10
- 1/4 wave antenna for vehicle + 5m
  - VUB150
- 1/2 wave 400MHz offset antenna
  - VUB086
- 2m antenna extender + insulated bracket
  - VUB100
- 5m antenna extender + insulated bracket
  - VUB120
- 2m antenna extender + non-insulated bracket
  - VUB105
- 5m antenna extender + non-insulated bracket
  - VUB125

Directional arrow

- Set of 4 colored directional arrows
  - UWE002
- Set of 2 colored directional arrows
  - UWE001

UDF IR module

- Kit with 1 IR module + 10m cable
  - UDF1
- Set of 2 IR modules + 10m cable
  - UDF2
- IR module electronic board
  - PR0134
- Changing procedure SN270095
- IR window for UDF module
  - PR0133

Monitoring and diagnostic accessories

- "Dialog UD" level 2 + RS232 cable
  - UDWR37
  - (version 5.1 minimum)
- Serial link accessory
  - UDWR32

Various spare parts

- Common wiring accessory
  - UDWR12
- 16-pin male connector + 2m cable
  - UDWR13
- 24-pin male connector + 2m cable
  - UDWR14
- Plastic cable gland kit
  - UDWR11
- PG29
- PG9 x 4
- Spanners kit
  - PR0142
- Spanner for assembly/disassembly PG29 cable gland
- Spanner for assembly/disassembly serial link option (PR0138)

Index

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>T 727</td>
<td>First issue</td>
<td>E.DECHAME</td>
<td>24.06.04</td>
<td>Tech:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Market:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Various accessories and spare parts

UDR

Filename: SE270200-00-EN.P65

This document is the property of Jay Electronique. Reproduction or disclosure prohibited without written authorization.
Upgrading UDR receivers according to version

1- Upgrading receivers:

<table>
<thead>
<tr>
<th>UDR version number</th>
<th>Obligatory upgrade</th>
<th>Part(s) to be used for the upgrade</th>
<th>Assembly / disassembly procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Description</td>
<td>Reference</td>
</tr>
<tr>
<td>A001 to A003 included</td>
<td>Mother board have to be changed if its version nb is lower than E18982</td>
<td>UDR mother board</td>
<td>PR0124 A (24-48VAC) PR0124 B (115-230VAC) PR0124 4 (12-24VDC)</td>
</tr>
<tr>
<td></td>
<td>If modification for using the &quot;Horn n°2&quot; function : Mother board have to be changed if its version nb is lower than E18984</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>If modification for using &quot;micro-speed&quot;, &quot;coupling cranes&quot; or &quot;transfer crane&quot; functions : Mother board have to be changed if its version nb is lower than E18986</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>If UDR with IR start-up option, check of UDF IR module version number : If UDF version number is &lt; than A002, the UDF electronic board must be changed</td>
<td>UDF electronic board</td>
<td>PR0134</td>
</tr>
<tr>
<td>B001</td>
<td>If modification for using &quot;micro-speed&quot;, &quot;coupling cranes&quot; or &quot;transfer crane&quot; functions : Mother board have to be changed if its version nb is lower than E18986</td>
<td>UDR mother board</td>
<td>PR0124 A (24-48VAC) PR0124 B (115-230VAC) PR0124 4 (12-24VDC)</td>
</tr>
<tr>
<td>Since B002</td>
<td>No obligatory upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(The last version on 07/2004 is C003)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2- UDR mother board / UDR radio module pairing in case of repair / exchange :

UDR mother board with a version number **E18980 to E18984 included**, have to be paired with a **PR0120 R** radio module.

UDR mother board with a version number **E18985 and higher**, have to be paired with a **PR0208 R** radio module.

---

**Index**

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>T 727</td>
<td>Update according new versions Pairing the mobo and radio module</td>
<td>E.DECHAME</td>
<td>01.07.04</td>
<td>Tech:</td>
</tr>
</tbody>
</table>

**Changes to receivers UDR**

**Format:** A4

**Filename:** SN270080-02-EN.P65

**DOC REF.:** SN 270080.02

---

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START

Switch on the receiver

- Receiver yellow led on?
  - no
  - yes

Safety microprocessor leds flash?

- no
- yes

with DialogUD software, go to "receiver parameters" and read receiver EEPROM memory

For receiver with IR start-up option, unlick this option for continue

Use repaired customer transmitter with its electronic key

or

Program a test electronic key with correct parameter (receiver to be tested) and place it on test transmitter.

Go to "Test" menu in DialogUD software (check of radio quality rate)

Unlock stop palmswitch and press "On" button

- Radio quality rate is 100 % ?
  - yes
  - no

- safety relays and horn relay are pulled in when "on" button is pressed?
  - yes
  - no

Measure the safety relays, horn relay and auxiliary relay (if auxiliary board is present) contact resistance

- relay contact resistance is R< 2 Ohms ?
  - yes
  - no

Press one by one transmitter function buttons

- Actions are transmitted to function relays?
  - yes
  - no

Function relay contact resistance is R< 2 Ohms ?

- yes
- no

continued on page 2

Additional information
See table of probable faults on page 3

Key

no

Refer to various chapters of receiver technical diagnosis (document SJ270050)

UDWR36
DialogUD software v5.1 minimum + programming tool PO1527

Checked customer transmitter or test transmitter

Digital multimeter

Checked customer transmitter or test transmitter

Digital multimeter

Quick test before intervention

UDR

Index Modif. No. Modification Name Date Approved by:

02 T 727 Update due to new DialogUD 5.1 version E.DECHAME 22.07.04 Techs:

Format: A4
Filename: SJ270040-02-EN.P65
Doc REF.: SJ270040.02

Page: 1 / 3

This document is the property of Jay Electronique. Reproduction or disclosure prohibited without written authorization.
Press transmitter stop palmswitch button

Safety relay contacts open?

- Yes
  - IR startup option present on receiver?
    - Yes
      - Set serial option switch to "RS232" mode. In the Dialog UD level 2 software, under the "EEPROM Programming" menu, read the receiver EEPROM memory.
      - Tick the IR startup option
      - Save the new parameter
      - Set the serial option switch to "Normal" mode
      - Shut down the receiver
      - Equip the receiver with one of the UDF units to be tested (repeat the operation for each UDF to be tested and IR connectors (3))
      - Switch on the receiver
    - No
      - Unlock the stop palmswitch button on the test transmitter and press the green "on" button by pointing the UDE toward the UDF of the receiver to be tested (3 meters mini between UDE and UDF).
      - Receiver safety and horn relays pull in?
        - No
          - Check the customer transmitter or test transmitter
        - Yes
          - Repeat the test at distance of around 20m (range test)
          - Receiver safety and horn relays pull in?
            - No
              - No
            - Yes
              - Yes

Check the receiver upgrade status

End

Visual inspection of UDF

Check technical diagnosis SJ270050 "visual inspection of UDF"
Error messages generated by microprocessor indicator lights

<table>
<thead>
<tr>
<th>Safety Microproc. LED 1 - ORANGE -</th>
<th>Safety Microproc. LED 2 - GREEN -</th>
<th>Possible causes of fault</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off (supplied but Yellow power indicator light also off)</td>
<td>- Fuses blown</td>
<td>- Check condition of fuses and fuse rating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Faulty power supply wiring</td>
<td>- Check power supply wiring according to receiver model</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Incorrect power supply wiring</td>
<td>- Replace motherboard</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Auxiliary board faulty</td>
<td>- Replace auxiliary board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Safety relays faulty</td>
<td>- Replace motherboard</td>
<td></td>
</tr>
<tr>
<td>2 flashes</td>
<td>- Internal faults on memories and microprocessors</td>
<td>- Replace motherboard</td>
<td></td>
</tr>
<tr>
<td>3 flashes</td>
<td>- Fuses blown</td>
<td>- Check condition of fuses and fuse rating</td>
<td></td>
</tr>
<tr>
<td>4 flashes</td>
<td>- Faulty power supply wiring</td>
<td>- Check power supply wiring according to receiver model</td>
<td></td>
</tr>
<tr>
<td>5 flashes</td>
<td>- Incorrect power supply wiring</td>
<td>- Replace motherboard</td>
<td></td>
</tr>
<tr>
<td>6 flashes</td>
<td>- Auxiliary board faulty</td>
<td>- Replace auxiliary board</td>
<td></td>
</tr>
<tr>
<td>7 flashes</td>
<td>- Safety relays faulty</td>
<td>- Replace motherboard</td>
<td></td>
</tr>
</tbody>
</table>

Possible causes of fault and corrective actions for different states of the LED indicators are shown in the table above.

Other messages generated by receiver motherboard indicator lights

<table>
<thead>
<tr>
<th>LED name and color</th>
<th>Mode</th>
<th>Indication</th>
<th>Message</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Microproc.1 LED (ORANGE)</td>
<td>Normal</td>
<td>Indicates validity of identity code</td>
<td>Message not received</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Message received with correct identity code</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Message received with incorrect identity code</td>
<td>Flashes regularly</td>
</tr>
<tr>
<td></td>
<td>Serial link</td>
<td>“RS232 mode”</td>
<td>No radio reception</td>
<td>OFF</td>
</tr>
<tr>
<td>Safety Microproc.2 LED (GREEN)</td>
<td>Normal</td>
<td>Indicates radio reception quality</td>
<td>Poor radio reception</td>
<td>Flashes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Good radio reception</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>Serial link</td>
<td>“RS232 mode”</td>
<td>Receiver shut down</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Receiver powered up</td>
<td>ON</td>
</tr>
<tr>
<td>Horn relay LED (RED)</td>
<td>All</td>
<td>Horn relay state</td>
<td>not activated (OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>activated (ON)</td>
<td>ON</td>
</tr>
<tr>
<td>Auxiliary relay LED (RED)</td>
<td>All</td>
<td>Auxiliary relay state on auxiliary board (option)</td>
<td>not activated (OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>activated (ON)</td>
<td>ON</td>
</tr>
<tr>
<td>ON Power LED (YELLOW)</td>
<td>All</td>
<td>Indicates power supply</td>
<td>Receiver shut down</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Receiver powered up</td>
<td>ON</td>
</tr>
<tr>
<td>Safety relay LED (RED)</td>
<td>All</td>
<td>State of safety relays</td>
<td>not activated (OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>activated (ON)</td>
<td>ON</td>
</tr>
<tr>
<td>Function relay LED (RED)</td>
<td>All</td>
<td>State of function relay N</td>
<td>not activated (OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>activated (ON)</td>
<td>ON</td>
</tr>
</tbody>
</table>

The table above shows the messages generated by the receiver motherboard indicator lights for different conditions.

UDR motherboard RESET:
1 - Switch on receiver
2 - press S2 button

Receiver manual release:
(for "Coupled travelling cranes", and "Travelling crane transfer" options)
1 - Switch on receiver
2 - press S1 button
3 - Maintain S1, and press S2
4 - release S1
5 - release S2

The diagram illustrates the various components and their connections, including the relay board connector, "control" cable gland, power supply cable gland, and antenna connector.
UDR TECHNICAL DIAGNOSIS
- for preparation of an estimate -

START

Visual inspection of UDR

Open the receiver housing

Check the receiver version

Receiver complies with respect to technical changes table?

yes

no

Housing in good condition?

yes

no

Cable glands in good condition?

yes

no

If present, IR modules in good condition?

yes

no

If present, plug-in connectors in good condition?

yes

no

Antenna and extension in good condition

yes

no

Receiver motherboard oxidised or modified by third party?

yes

no

Spring terminal boards in good condition?

yes

no

Continued on page 2

Symbols/abbreviations:

ọ Continue Diagnosis
ọ Stop Diagnosis
ọ P.M. : Preventive Maintenance

UDR

PRODUCT INTERVENTION SHEET
(TO BE COMPLETED)

Sub-assy to be replaced

-----

Spare part or technical upgrade accessory
(X99 fault code)
(P.M.)

PR0125
PR0125 1
Receiver housing
(P.M.)

PR0127
UDWR11
cable gland kits (P.M.)

UDF 1 / 2
PR0133
IR module (P.M.)

UDWR13
UDWR14
Connector (P.M.)

VUB084-086
VUB105-125
Antenna / Extension (P.M.)

PR0124 4/A/B
Motherboard (P.M.)

PR0124 4/A/B
Motherboard (P.M.)
Check of power supply fuses
continuity test

Fuses in good condition and compliant with respect to power supply voltage?

yes  Replace fuses for subsequent part of diagnosis

no  Continued from page 1

Check of safety relay fuses
continuity test

Fuses in good condition and compliant?

yes  Replace fuses for subsequent part of diagnosis

no

Check that all boards are properly connected in housing

Boards properly connected?

no

yes  Record this information on intervention sheet and reconnect the boards correctly

Be careful with power supply voltage and wiring; see receiver sales reference

See motherboard replacement procedure SN270100

Functional check of receiver UDR

Switch on the receiver

Yellow led on?

no  Continued on page 3

yes
Check of radio module

Use the checked customer transmitter or test transmitter + serial link + PC and switch on the UDR in "RS232" mode.

In the "Dialog UD" software, go the "EEPROM programming" menu. Read the receiver EEPROM memory.

For the receivers equipped with the IR startup function, untick this option to continue the diagnosis.

Save the new parameters in the receiver EEPROM memory.

Continued on page 4
Set the serial option switch to "Normal" mode and go to the "Remote control UD" function in the "Dialog UD" software

Programm the electronic key with receiver parameters (ID code, radio channel) and place it on transmitter

Go to "Test" menu in DialogUD software (check of radio quality rate)

Unlock the stop palmswitch button of the transmitter and press the "on" button

Radio quality rate = 100 %

Lock the test transmitter stop palmswitch button

Install the test radio module in place of the radio module in the receiver

Unlock the transmitter stop palmswitch button and press the "on" button

Radio quality rate = 100%

Do you have the means to measure the radio module characteristics

Test the radio module on the test bench

Radio module performance is satisfactory?

Check of relay states

Safety and horn relays pull in when "on" button of UDE is pressed?

Measure the contact resistance of the safety relays, horn relay and auxiliary relay (if auxiliary board is present)

Relay contact resistance is R<2Ω?

Jay électronique specific test instrumentat.
Unlock stop palm switch button and press "ON", then, press one by one transmitter function buttons

Action are transmitted?

Install the test relay board in place of the faulty relay boards

Repeat the test

Action are transmitted?

Measure the contact resistance of the relays

Contact resistance of each function relay is R<2\(\Omega\) ?

Test of IR start-up option

IR start-up option present in receiver?

In the Dialog UD software, under the “UDR parameters” menu, read the receiver EEPROM memory.

Tick the IR startup option

Save the new parameter

Set the serial option switch to “Normal” mode.

Shut down the receiver

Equip the receiver with one of the UDFs to be tested (repeat the operation for each UDF to be tested and IR connector (3).)

END of diagnosis.

After repair, perform final test: doc. SJ270060

Symbols:

- Continue Diagnosis
- Stop Diagnosis

Test relay board ref. PR0122

- Pozidriv screwdrivers No. 2, No. 1
- 16mm box spanner
- 2.5mm Allen wrench
- Flat nose pliers

Digital multimeter
Unlock the stop palmswitch button of the transmitter and press the green “on” button while pointing the UDE toward the UDF of receiver to be tested (at a minimum distance of 3m).

Receiver safety and horn relays pull in and IR module led flashes?
- no
- yes

Connect test UDF to receiver and repeat the test.

Receiver safety and horn relays pull in and IR module red led flashes?
- no
- yes

Repeat the test but at a distance of 20m between the UDE and the UDF.

Receiver safety and horn relays pull in and IR module red led flashes?
- no
- yes

Replace UDF lens and repeat the test.

Receiver safety and horn relays pull in and IR module red led flashes?
- no
- yes

END of diagnostic.

After repair, perform final test:
- doc. SJ270060

Symbols:
- Continue Diagnosis
- Stop Diagnosis

Tool:
- Pozidriv screwdrivers
  - No. 2
  - No. 1
- 16mm box spanner
- 2.5mm Allen wrench
- Flat nose pliers
- Torx screwdriver
  - No. 10

PRODUCT INTERVENTION SHEET (TO BE COMPLETED)

sub-assy to be replaced

- PRO124 4/A/B
  - Motherboard
- PRO134
  - UDF electronic board
- PRO134
  - UDF electronic board
- PRO133
  - Lens for IR module

See motherboard replacement procedure
SN270100

See IR board replacement procedure
SN270095

See motherboard replacement procedure
SJ270050.02 - 6 / 6

Switch on the receiver.

Continued from page 5.
**UDR final test after intervention**

**START**

1. **Switch on the receiver**
   - **Receiver led comes on?** no ->
   - **Safety microprocessor leds flash?** no

2. **Connect the receiver to a microcomputer equipped with the "DialogUD" software**
   - Go to "UDR parameters" and read receiver memory

3. **For receivers equipped with IR startup function, untick this option to continue the final test**

4. **Use checked customer transmitter or program test electronic key with receiver parameters and place it on test transmitter**

5. **Go to "Test" menu in DialogUD software (check of radio quality rate)**

6. **Set serial link option on "Normal" mode**

7. **Unlock the stop palmswitch button of the test transmitter and press the "on" button.**

8. **Radio reception quality = 100% ?** no -> (go to radio module check in document SJ270050)
   - yes

9. **Safety and horn relays pull in when "on" button of UDE is pressed?** no -> (go to radio module check in document SJ270050)
   - yes

10. **Press each transmitter function buttons**

11. **actions are transmitted to receiver ?** no -> (go to receiver functional check in document SJ270050)
    - yes

---

**Key:**

- = Test negative, repeat technical diagnosis on product (doc. SJ270050)

---

**Serial link kit** ref.: UDWR32 + "Dialog UD" software version 5.1 minimum ref.: UDWR36

---

**Checked customer transmitter or test transmitter**

---

**Additional information**

---

**Switch on the receiver**

- **Receiver led comes on?** no ->
  - **Safety microprocessor leds flash?** no

---

**Final test**

**UDR**

---

**New DialogUD 5.1**

It allows to test radio link quality between UDE and UDR

---

**Index** | **Modif. No.** | **Modification** | **Name** | **Date** | **Approved by**
--- | --- | --- | --- | --- | ---
02 | T 727 | Update with DialogUD v5.1 | E. DECHAME | 24.06.04 | Tech:

---

**Format:** A4

**Filename:** SJ270060-02-EN.VSD

**DOC REF.:** SJ 270060.02 Page: 1 / 2

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Press the transmitter stop palm switch button

Safety relay contacts open?

Yes

Receiver has IR startup option?

Yes

Set serial option switch to "RS232". In the "DialogUD" software, go to the "Receiver parameters" menu. Read the receiver EEPROM memory.

Tick the IR startup option

Save the new parameter

Set the serial option switch to "Normal" mode.

Shut down the receiver

Equip the receiver with one of the UDFs to be tested (repeat the operation for each UDF to be tested and IR connector (3)).

Switch on the receiver

Unlock the stop palm switch button of the test transmitter and press the green "on" button pointing the UDE toward the UDF of the receiver to be tested (at a minimum distance of 3m).

Receiver safety and horn relays pull in?

Yes

Repeat the test at a distance of around 20 m (range test)

Receiver safety and horn relays pull in?

Yes

Fill in the repair labels and fasten them to the receiver. Fill in the product intervention sheet

End
Changing the UDR receiver housing

Receiver housing:

References:
- PR0125 ...... Receiver housing without serial link option (cover+housing+cable gland+screws+1 pre-printed descriptive label)
- PR0125 1 .... Receiver housing with serial link option (cover+manufactured housing+cable glands+screws+1 pre-printed descriptive label)

Tools:
- n°2, n°1 Pozidriv screwdriver, 16mm box spanner, flat noze pliers, spanners kit PR0142

---

Disassembly:

1- Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
2- Disconnect the wires connected to the various receiver connectors taking care to carefully mark the wires.
3- Remove the n°A relay board and the auxiliary board if present to access the motherboard mounting screws.
4- **Housing with serial option only, otherwise: go to step 5**
   - 4.1- Using the No. 1 Pozidriv screwdriver, remove the two screws securing the serial link board
   - 4.2- Using spanner in PR0142 kit to remove the nut securing the serial link interface to the housing.
   - 4.3- Remove the serial option from the receiver housing.
5- Unscrew the outer nut of the BNC antenna connector using the 16mm box spanner.
6- Remove the washer from the BNC connector and remove the connector from its housing.
7- Remove the four screws securing the motherboard.
8- Using the flat noze pliers, unclip the two white spacers on the housing.
9- Remove the motherboard from the housing.

---

Assembly:

1- Fit the new motherboard in the new housing by clipping the two spacers of the housing to the motherboard.
2- Secure the motherboard with the 4 mounting screws.
3- Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
4- Fit the washer on the BNC.
5- Secure the BNC connector with the nut using the 16mm box spanner.
6- Install relay board No. A and the auxiliary board if used.
7- **Housing with serial option only, otherwise: go to step 8**
   - 7.1- Run the serial option board through the hole of the housing provided for this purpose and through the clamping nut.
   - 7.2- Connect and secure the serial link board to the motherboard by its two mounting screws.
   - 7.3- Tighten the interface nut on the housing with spanner in PR0142 kit.
8- Re-wire the customer wiring on the receiver if necessary.
9- Close the housing.
10- Fill in the pre-printed descriptive label and fasten it to location indicated in document SN270120.

---

Index Modif. No. Modification Name Date Approved by:
02 T 727 Assembly/Disassembly procedures updated E.DECHAME 05.07.04 Tech:

Changing the receiver housing
UDR

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Changing the UDF IR module electronic board

UDF IR electronic board:
Reference: PR0134

Tools: ............ n°2 Pozidriv screwdriver, n°10 Torx screwdriver, Soldering iron

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>UDF IR electronic board</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>Torx 10 screw</td>
<td>2</td>
</tr>
</tbody>
</table>

Disassembly:
1- Open the UDF housing using the no.2 Pozidriv screwdriver.
2- Remove screws from the UDF electronic board.
3- Unsolder UDR - UDF connection wires from the UDF electronic board.

Assembly:
1- Solder connection wires on electronic component side (pay attention to color and position see fig.2)
2- Secure the electronic board on lens with 2 torx no.10 screws.
3- Close UDF housing.

UDF IR electronic board:
Reference: PR0134

Tools: ............ n°2 Pozidriv screwdriver, n°10 Torx screwdriver, Soldering iron

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>UDF IR electronic board</td>
</tr>
<tr>
<td>B</td>
<td>Torx 10 screw</td>
</tr>
</tbody>
</table>

Disassembly:
1- Open the UDF housing using the no.2 Pozidriv screwdriver.
2- Remove screws from the UDF electronic board.
3- Unsolder UDR - UDF connection wires from the UDF electronic board.

Assembly:
1- Solder connection wires on electronic component side (pay attention to color and position see fig.2)
2- Secure the electronic board on lens with 2 torx no.10 screws.
3- Close UDF housing.
Changing the receiver motherboard

Receiver motherboard kits:

References:
- PR0124 A ... motherboard UDR 24-48VAC
- PR0124 B ... motherboard UDR 115-230VAC
- PR0124 4 ... motherboard UDR 12-24VDC

Tools: n°2 Pozidriv screwdrivers, 16mm box spanner, electronic flat noze plier, 2.5mm Allen wrench, Spanner kit PR0142

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Mounting screws</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Pre-printed descriptive labels</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>UDR motherboard</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Please refer to the instructions described in the document SN270080 for motherboard / radio module pairing, according to UDR version number.

Disassembly:
1- Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
2- Disconnect the wires connected to the various receiver connectors taking care to mark the wires.
3- Remove the auxiliary board if present and relay boards.
4- Housing with serial option only, go to step 5. Otherwise:
   4.1- Using the No. 1 Pozidriv screwdriver, remove the 2 screws securing the serial link board.
   4.2- Using the spanner from PR0142 kit, remove the nut securing the serial link interface to the housing.
   4.3- Pull out the serial link board through the housing.
5- Remove the nut securing the BNC using the 16mm box spanner.
6- Remove the washer from the BNC and remove the BNC from its housing.
7- Remove the screw securing the receiver radio module.
8- Unplug the radio module and remove the assembly formed by the radio module + BNC connector from the motherboard.
9- Remove the 4 screws securing the motherboard.
10- Using the electronics flat noze pliers, unclip the two white spacers of the housing.
11- Remove the motherboard from the housing.
12- Remove the Allen screw from the antenna plate using the 2.5 mm Allen wrench.
13- Remove the antenna plate.

Assembly:
1- Fit the motherboard in the housing by clipping the 2 spacers of the housing to the motherboard.
2- Secure the motherboard with the 4 mounting screws.
3- Install the antenna plate on the motherboard and secure it with the Allen screw.
4- Carefully plug the radio module into the motherboard, running the antenna wire between the two IR connectors.
5- Secure the radio module with its mounting screw to the motherboard using the No. 1 Pozidriv screwdriver.
6- Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
7- Fit the washer on the BNC.
8- Secure the BNC with the nut using the 16mm box spanner.
9- Install the relay boards and the optional board if used.
10- Receiver with serial option only, go to step 11. Otherwise:
   10.1- Run the serial option board through the hole in the housing provided for this purpose and through the clamping nut.
   10.2- Connect and secure the serial link board to the motherboard by its two mounting screws.
   10.3- Tighten the interface nut on the housing with spanner from PR0142 kit.
11- Re-wire the customer wiring to the receiver if necessary.
12- Fill in pre-printed descriptive labels and fasten them to locations indicated in document SN270120.
13- Close the housing.
Changing the UDR receiver radio module

Receiver radio module:

References: PR0120 R .... Radio module for UDR version A001 to B002 included
PR0208 R .... Radio module for UDR version B003 and higher

Tools: .......... n°2 and n°1 Pozidriv screwdrivers, 16mm box spanner.

Parts list:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Mounting screw</td>
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</tr>
<tr>
<td>B</td>
<td>Receiver radio module</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>Spacer</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>BNC washer</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>BNC nut</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Please refer to the instructions described in the document SN270080 for motherboard / radio module pairing, according to UDR version number.

Disassembly:

1- Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
2- Unscrew the outer nut on the BNC using the 16mm box spanner.
3- Remove the washer from the BNC and remove the BNC from its housing.
4- Remove the screw securing the receiver radio module with n°1 Pozidriv screwdriver.
5- Unplug the radio module and remove the assembly from the motherboard.

Assembly:

1- Carefully connect the new radio module to the motherboard (see fig.2).
2- Secure the radio module with its mounting screw to the motherboard using the No. 1 Pozidriv screwdriver.
3- Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
4- Fit the washer on the BNC.
5- Secure the BNC connector with its nut using the 16mm box spanner.
6- Close the receiver housing.

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Markings on repaired UDR receiver

1- Repair label

Two repair labels must be filled in and applied to the receiver (see location in § 3).

![Repair labels must be applied after each intervention (under warranty or not)]

Repair labels can be ordered under reference:
PR0229 (a roller of 1000 labels)

2- UDE transmitter, electronic key and appaired UDR receiver descriptive labels

If the unit has been transformed, the information on the transmitter and receiver nameplates must be changed accordingly. To do so, use blank nameplates, filled in as follows:

![UDE labels](location on below)

![UDR labels](see UDR data repair package)

![electronic key para. labels](to be sticked on page n°2 of this document, and send to customer)

3- Location of repair labels and descriptive labels on UDR

![n°1 UDR descriptive label](n°1 UDR repair label)

![n°2 UDR descriptive label](n°2 UDR repair label)

<table>
<thead>
<tr>
<th>Index</th>
<th>Modif. No.</th>
<th>Modification</th>
<th>Name</th>
<th>Date</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>T 727</td>
<td>New pictures and descriptive labels + electronic key label</td>
<td>E.DECHAME</td>
<td>06.07.04</td>
<td>Tech:</td>
</tr>
</tbody>
</table>

**Markings on repaired receiver**

**UDR**

**Format:** A4

**Filename:** SN270120-02-EN.P65

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UDE transmitter
Grey key identification sheet

KEEP THIS DOCUMENT

Read and keep this document in a safe location. It contains important information concerning the key which you have just received.

For operation of your radio remote control, refer to the UD installation and user manual.

An identification No. is engraved on the side of the electronic key. This key contains all the parameters of your transmitter, ensuring correct communication with the associated receiver (Frequency channel, identification code, dead man time ...)

Please indicate this identification No. when ordering a new identical key.

Please identify your electronic key using the label supplied with the key.

Fill in the identification of the equipment controlled by this key.

UDE transmitter electronic key

Electronic key parameter label :
(to be sticked by the repairman)

Equipment :
(to be filled in by the customer)