

EXHIBIT A

PARTS LIST AND TUNE-UP PROCEDURE

**SV7600E/V OFDM/DMQ-T (MEDIAFLO)
0.6-KILOWATT TRANSMITTER**



ROHDE & SCHWARZ

PARTS LIST

The SV7000E/V series transmitter may be sub-divided into the following components:

- 1) Per each NV 700 Exciter (one cabinet frame per transmitter, each cabinet frame can accommodate two excitors)

| <u>Part Number</u> (Rohde & Schwarz, unless otherwise noted.) | <u>Description</u> |
|---|---|
| a) 2091.1050.12 | Encoder Module |
| b) 2083.6540.45 | Modulator Module |
| c) | Equalizer/Precorrector Module (factory paired with Modulator) |
| d) 2083.6004.12 | Synthesizer Module (with optional GPS Receiver) |
| e) 2083.5314.12 | Exciter Power Supply (one per exciter, up to two per cabinet frame) |
| f) 2080.5659.02 | CCU (Central Control Unit module, one per exciter cabinet frame) |
| g) 2080.4800.00 | CCU Power Supply (one per exciter cabinet frame) |
| 2) Transmitter Cabinet | (up to three cabinets per transmitter as covered by this application) |
| a) 2069.7007.xx | Input Splitter |
| b) 2082.9000.02 | VH602A2 UHF Power Amplifier (up to eight per cabinet) |
| c) 2069.0750.xx | Output Power Combiner |
| d) | Harmonic Filter |
| e) 2080.7900.03 | Rack Controller (one per cabinet) |
| 3) Transmitter, Complete | |
| a) 2080.6255.03 | Exciter Switcher (V version only,) |
| b) | Exciter Drive Power Divider System |
| c) 2090.7702.02 | Rack Controller / RF Detector |
| d) 2094.7704.02 | Cabinet |
| e) | Output Power Combiner System |
| f) 2090.9005.03 | Output Directional Coupler |
| g) 2094.0002.02 | NetCCU 700 Transmitter Control I/P Interface Unit (Optional) |
| h) BN616450 | Channel "Mask" Filter (Note: this is a Spinner assembly) |

Note: A more detailed list of all of the assemblies used in the SV7600V transmitter appears on the last two pages of this Exhibit. Complete parts listings, to the individual component level, can be found in the accompanying Exhibits to this Application for Equipment Certification.

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Tune-Up Information:

The SV7000 family of transmitters is broadband in design and therefore requires no tuning as such. Each individual transmitter is put through extensive testing at the factory on the customer's designated operating frequency to insure proper operation. The transmitter commissioning process calls for the verification of the factory set-ups. Following is an outline of the requirements:

COMMISSIONING OF THE TRANSMITTER (assumes complete assembly during installation)

- 1) Requirements For Putting Into Operation
 - a) Verify Rack Wiring Interconnect
 - b) Checks Response Settings (programmable circuit protectors) of Power Distribution
 - c) Verify Transmitter Rack/Cabinet Internal Wiring Connections
 - d) Verify Rack Controllers Configuration
 - e) Verify Jumpers Settings on Motherboard
- 2) Switching On The Transmitter
 - a) Exciter Turn On
 - b) Settings In The CCU Menu Of The Exciter
 - c) Settings In The Exciter Menu
(Synthesizer, Modulator/Precorrector, Encoder)
 - d) Settings In The Exciter Amplifier Submenu
 - e) Settings In The Exciter Cooling Submenu
- 3) Checking The Exciter Output Power
- 4) Putting The Amplifiers Into Operation
 - a) Switching On The Amplifiers
 - b) Verify Operation of Amplifier Cooling Fans
 - c) Amplifier Adjustment
 - d) Phase Adjustment Of Output Stages
 - e) Amplifier Adjustment
- 5) Setting RF Displays And Thresholds
 - a) Setting Forward And Reflected Power Monitoring
 - b) Setting The Forward Power Threshold
 - c) Verify Band Occupancy (Mask Filter Response)
- 6) Emergency Operation, Verification and Adjustment
- 7) Remote Control Function Verification

A complete step-by-step discussion of the start-up and adjustment steps to put the transmitter into operation, as outlined above, can be found in Exhibit K, SV7600 Commissioning and Operating Manual, Parts (Chapters) 5, 6, and 7, that accompany this filing.

ROHDE & SCHWARZ



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| Pos.-Nr. ItemNo | Menge Quantity | ME Unit | El.Kennz Ref.Des. | Benennung / Bezeichnung Designation | Z | Sachnummer Stock No. | Ersatzteil Subst.part | BA | VH |
|--|-------------------|------------|----------------------|--|------------|-------------------------|--------------------------|-----------------------|------------------------|
| | | | | ACHTUNG EGB/ATTENTION ESD *VARIANTENERKLAERUNG *EXPLANATION OF MODELS VAR02=SV7600E DVB-T TX 600W GESTELL KG740 42HE ADE MOD02=SV7600E DVB-T TX 600W RACK KG740 42U ADE VAR03=SV7600V DVB-T TX 600W KG740 42HE , ADE, NETCCU, TOWERCAST MOD03=SV7600V DVB-T TX 600W RACK KG740 42U ADE, NETCCU VAR04=SV7600V DVB-T TX 600W GESTELL KG740 42HE , ADE, NETCCU, ANTALIS MOD04=SV7600V DVB-T TX 600W RACK KG740 42U ADE, NETCCU VAR05=SV7600E DVB-T TX 600W GESTELL KG740 42HE GPS, DVB-H PORTUGAL MOD05=SV7600E DVB-T TX 600W RACK KG740 42U GPS, DVB-H VAR06=SV7600V DVB-T TX 600W KG740 42HE , ADE, GPS, NETCCU, TOWERCAST MOD06=SV7600V DVB-T TX 600W RACK KG740 42U. ADE, GPS, NETCCU VAR07=SV7600E DVB-T TX 600W KG740 42HE , NETCCU, SV700 MOD07=SV7600E DVB-T TX 600W RACK KG740 42U., NETCCU, SV700 VAR08=SV7600V DVB-T TX 600W KG720 21HE , ADE, EDG, GPS, NETCCU, QUALCOMM MOD08=SV7600V DVB-T TX 600W RACK KG720 21U, ADE, EDG, GPS, NETCCU, QUALCOMM | | | | | |
| 20 | 1 | S | | GG SV7002 KLEINL. SYSTEM SV7002 LOW PWR SYSTEM VAR 02 03 04 05 06 08 | Z | 2094.4008.50 | | M | |
| 22 | 1 | S | | GG SV7000 KLEINLSTG. SYST SV7000 SMALL PWR SYSTE VAR 07 | Z | 2091.1508.50 | | M | |
| 30 | 6 | S | | GG VH620A2 UHF-VERST.100W VH620A2 UHF AMPL.100W VAR 02 03 04 05 06 07 08 | Z | 2090.0008.03 | | M | |
| 38 | 2 | S | | GS SV700 VORST.S. DMQ-T SET OF MOD. DMQ -T VAR 08 | Z | 2083.4501.97 | | M | |
| 40 | 1 | S | | GG SV702 DTV EXCITER ADE SV702 DTV EXCITER VAR 02 | Z | 2093.1005.05 | | M | |
| 42 | 2 | S | | GG SV702 DTV EXCITER ADE SV702 DTV EXCITER VAR 03 04 | Z | 2093.1005.05 | | M | |
| 44 | 1 | S | | GG SV702 DTV EXCITER MIT GPS SV702 DTV EXCITER VAR 05 | Z | 2093.1005.53 | | M | |
| 46 | 2 | S | | GG SV702 DTV EXCITER ADE GPS SV702 DTV EXCITER VAR 06 | Z | 2093.1005.55 | | M | |
| 48 | 1 | S | | GS SV700 VORSTUFENSATZ-DVB SV700 EXCITER KIT DVB | Z | 2083.4501.03 | | M | |
|  ROHDE & SCHWARZ | | | | Benennung/Designation SV7600X TV-SEND. 600W SV7600X TV TRANS 600W | | Sprach./Lang de en | A.I. / C.I 21.00 | Blatt/Sheet 1 of 4 | |
| SV7600X | | | | Datum/ Date | 2007-05-03 | Abt. / Dept. | 7TSA | Name / Name | WE |
| | | | | | | | | | 2065.7731.01 ST |

| Pos.-Nr. ItemNo | Menge Quantity | ME Unit | El.Kennz Ref.Des. | Benennung / Bezeichnung Designation | Z | Sachnummer Stock No. | Ersatzteil Subst.part | BA | VH |
|--|-------------------|------------|----------------------|---|------------|-------------------------|--------------------------|------------------------|----|
| | | | | VAR 07 | | | | | |
| 50 | 1 | S | | GS ADE SYSTEM KIT ADE SYSTEM KIT VAR 02 | Z | 2091.0730.11 | | M | O |
| 52 | 1 | S | | DV RG223 2xSMA-G 450mm RF cable VAR 02 | Z | 2091.5426.00 | | M | |
| 54 | 1 | S | | ED HF-SCHALTER RF-SWITCH VAR 02 | Z | 2091.0801.02 | | M | |
| 56 | 1 | S | | ZM MESSRICHTKOPPLER KL. DIRECTIONAL COUPLER SP VAR 02 | Z | 2090.9005.03 | | M | |
| 60 | 1 | S | | ZM KG740 KASTENGESTELL-42 KG740 CABINET RACK-42H VAR 02 03 04 05 06 07 08 | Z | 2094.7707.02 | | M | |
| 70 | 1 | S | | GG SV7600X CONNECTION KIT SV7600X CONNECTION KIT VAR 02 03 04 05 06 07 | Z | 2094.4608.02 | | M | O |
| 74 | 1 | S | | GG SV7600X SENDERKIT 600W SV7600X TX KIT 600W VAR 08 | Z | 2091.2204.02 | | M | |
| 80 | 1 | S | | GS ZR700Z6 KIT NETZVERT. ZR700Z6 KIT POWER SUP. VAR 02 03 04 05 06 07 08 | Z | 2097.3260.06 | | M | O |
| 90 | 1 | S | | GS ZR700V1 BAUS.VORST.RES EXCITER STANDBY KIT VAR 03 04 06 | Z | 2087.9650.72 | | M | |
| 92 | 1 | S | | GS ZR700V1 BAUS.VORST.RES EXCITER STANDBY KIT VAR 08 | Z | 2087.9650.25 | | M | |
| 100 | 1 | S | | GS SV7002T TEILESATZ SV7002T SET OF PARTS VAR 03 04 05 06 07 08 | Z | 2065.7683.02 | | M | |
| 110 | 1 | S | | GG NETCCU CONTROL UNIT NETCCU CONTROL UNIT VAR 03 04 06 07 08 | Z | 2094.0002.02 | | M | |
| 112 | 1 | S | | HS HS WEB-SERVER+SNMP HS WEB-SERVER+SNMP VAR 03 04 06 07 08 | Z | 2094.0825.00 | | M | |
| 114 | 1 | S | | HS HS SW-KEY NTX HS SW-KEY NTX VAR 03 04 06 07 08 | Z | 2094.0819.00 | | M | |
| 116 | 1 | S | | DX KABELSATZ E MIT NETCCU SET OF CABLES VAR 02 05 07 | Z | 2094.5310.02 | | M | O |
| 120 | 1 | S | | ZM MESSRICHTKOPPL.KL-2VUR DIR.COUPLER SP-2FAR VAR 03 04 06 | Z | 2090.9205.03 | | M | |
| 122 | 1 | S | | ZM MESSRICHTKOPPLER KL. DIRECTIONAL COUPLER SP VAR 08 | Z | 2090.9005.03 | | M | |
| 130 | 1 | S | | ZE Blitzschutz Breitband Lightning protector VAR 06 | Z | 2087.9350.02 | | M | |
| 132 | 1 | S | | FK 7/16 BU/BU FLANSCH | Z | 0794.5889.00 | | B | V |
|  ROHDE & SCHWARZ | | | | Benennung/Designation SV7600X TV-SEND. 600W SV7600X TV TRANS 600W | | Sprach./Lang de en | A.I. / C.I. 21.00 | Blatt/Sheet 2 of 4 | |
| SV7600X | | | | Datum/ Date | 2007-05-03 | Abt. / Dept. | 7TSA | Name / Name | WE |
| | | | | Dokument Nr. / Document No. | | | | 2065.7731.01 ST | |

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|--|-------------------|------------|----------------------|---|------------|-------------------------|---|---------------------|-----------------------|
| | | | | ADAPTOR 7/16 VAR 06 08 | | | | | |
| 140 | 1 | S | | GS ADE SYSTEM KIT ADE SYSTEM KIT VAR 03 04 06 08 | Z | 2091.0730.12 | | M | O |
| 142 | 2 | S | | GS SCHALTERKIT FUER ADE SWITCHER KIT FOR ADE VAR 03 04 06 | Z | 2091.0701.04 | | M | O |
| 144 | 2 | S | | GS SCHALTERKIT FUER ADE SWITCHER KIT FOR ADE VAR 08 | Z | 2091.0701.03 | | M | |
| 148 | 1 | S | | GS ASI-VERTEILER ASI DISTRIBUTOR VAR 08 | Z | 2094.0254.02 | | M | O |
| 150 | 1 | S | | GR PCI-7256 16 I/O 16 I/O - INTERFACE VAR 03 04 | | 2094.0919.00 | | B | V |
| 152 | 1 | S | | ED CCU RISER BOARD CCU RISER BOARD VAR 03 04 | Z | 2094.0602.02 | | M | |
| 160 | 1 | S | | ZM EINBAUSATZ GPS-ANT. MOUNTING KIT GPS-ANT. VAR 05 | Z | 2080.5442.02 | | M | O |
| 170 | 1 | S | | GH DVB-H OPTION HS DVB-H OPTION VAR 05 | Z | 2093.1440.00 | | M | |
| 180 | 2 | S | | ZM EINBAUSATZ GPS-ANT. MOUNTING KIT GPS-ANT. VAR 06 08 | Z | 2080.5442.02 | | M | O |
| 181 | 1 | S | | ED GESTELLSTEUERUNG Sx RACK -CONTROLLER Sx VAR 07 | Z | 2090.7702.02 | | M | |
| 182 | 1 | S | | MZ HALTERUNG F. GST. HOLDER VAR 07 | Z | 2090.7102.00 | | M | |
| 183 | 1 | S | | DY Gest.st-Motherb.W50A Control cable VAR 07 | Z | 2091.5303.00 | | M | |
| 184 | 1 | S | | DY Gest.st-Motherb. W52A Control cable VAR 07 | Z | 2091.5332.00 | | M | |
| 190 | 1 | S | | GS ZR700T1 EINBAUSATZ SX7 ZR700T1 Fitting kit SX VAR 07 | Z | 2088.2507.33 | | M | |
| 200 | 1 | S | | GG ZR704-Z ZUBEH.KL.LSTG. ACCESS. LOW PWR VAR 02 03 04 05 06 07 08 | Z | 2086.6905.00 | | M | |
| 210 | 1 | S | | ZM FH825 OWF - BD. 4/5 FH825 H.FILT. BD. 4/5 VAR 08 Einbausatz hierzu kommt von 3TES | Z | 2096.6508.02 | | M | O |
| 500 | 1 | S | | PB SV7600 INST.+BETRIEBSH SV7600 INSTALL + OPERA VAR 02 03 04 05 06 | Z | 2097.3960.32 | | M | O |
| 510 | 1 | S | | PB SV7600 DMQ INST.+BETRIEBSH SV7600 DMQ INSTALL + OPERA VAR 08 | Z | 2095.9410.32 | | M | |
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|----------------------------|-------------------|------------|-----------------------|---|----------------|-------------------------|---|---------------------|-----------------------|
| 520 | 1 | S | | PB SV7002 INST.+BETRIEBSH SV7002 INST.+OPERATION VAR 07 | Z | 2094.5433.31 | | M | |
| 540 | 1 | S | | PB NETCCU INSTALL+BETRIEBSHANDBUCH NETCCU COMMISSIONING+OPERATING MANUAL VAR 03 06 08 | Z | 2094.0025.32 | | M | |
| ROHDE & SCHWARZ | | | | | | Sprach./Lang de en | | Ä.l. / C.l 21.00 | Blatt/Sheet 4 of 4 |
| SV7600X | Datum/ Date | 2007-05-03 | Abt. / Dept. | 7TSA | Name / Name | WE | Dokument Nr. / Document No. 2065.7731.01 ST | | |

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