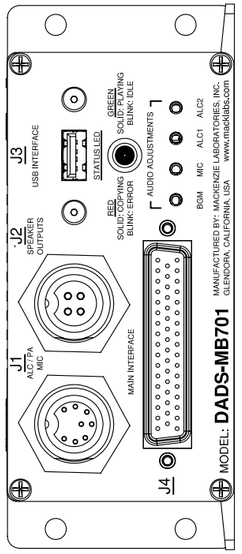
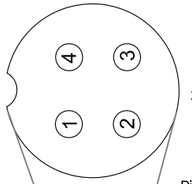
No.	REVISION DESCRIPTION	ENGINEERING	DATE
0	INITIAL RELEASE	RS	10 SEP 09





Use Conxall Multi-Con-X
3382-4PG mating connector

J2

Pin 4 - Ch2 Speaker Output (+)
Pin 3 - Ch2 Speaker Output (-)

Typical
16 Gauge

Pin 2 - Ch1 Speaker Output (-)
Pin 1 - Ch1 Speaker Output (+)

Zone 2 (External)
Speaker Network

Network Impedance (≥ 4 Ohm)

Zone 1 (Internal)
Speaker Network

Network Impedance(≥ 4 Ohm)

Operator PA Microphone
Used with Control Panel shown below

J1

Pin 7 - PA Mic Audio Input (+) — White
Pin 6 - PA Mic Audio Input (-) — Shield
Typical: West Penn 77291

Pin 5 - PA Mic Push to Talk Input
Pin 8 - PA Mic PTT Return

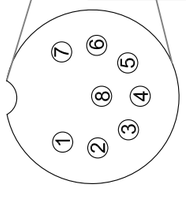
Typical
20 Gauge

Pin 4 - Ch2 ALC Mic Audio Input (-) — Shield
Pin 3 - Ch2 ALC Mic Audio Input (+) — White
Typical: West Penn 77291

Pin 2 - Ch1 ALC Mic Audio Input (-) — Shield
Pin 1 - Ch1 ALC Mic Audio Input (+) — White
Typical: West Penn 77291

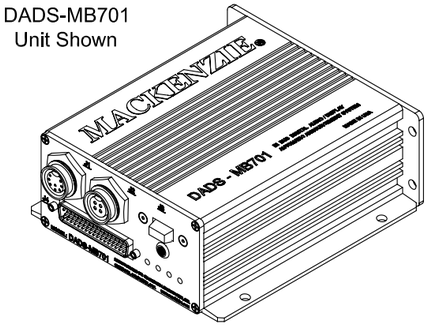
External Zone (Ch 2)
ALC Microphone

Internal Zone (Ch 1)
ALC Microphone

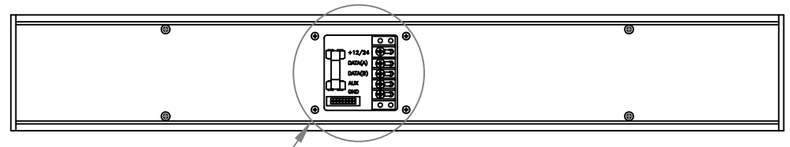


Use Conxall Multi-Con-X
3282-8PG mating connector

DADS-MB701
Unit Shown



LED Sign
Sunrise NXTP7X962M
Back View

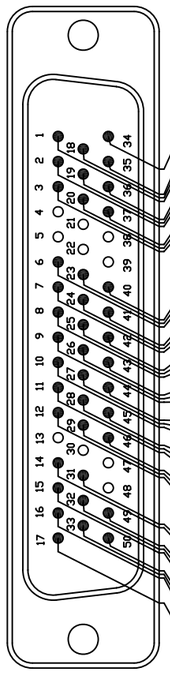


Typical
16 Gauge

Vehicle Power (+)
Power Return (-)
BLACK
WHITE
SHIELD
To Mobile Data
Terminal

J4

Use Standard DB50 (female)
mating connector



For Power and Ground lines, the installation can run three individual 20 gauge wires, or run one 16 gauge wire to the power source and splice into three 20 gauge wires at the DB50 connector.

Pin 34 - Audio Ground
Pin 35 - Chassis Ground
Pin 18 - Chassis Ground
Pin 1 - Chassis Ground

Connect to Chassis Ground
Close to Unit

Pin 36 - Power Return
Pin 19 - Power Return
Pin 2 - Power Return

Pin 37 - System Power Input
Pin 20 - System Power Input
Pin 3 - System Power Input

To Vehicle Power
Supply (9-32VDC)

Pin 40 - Ch 2 Line Level Output (-)
Pin 23 - Audio Ground
Pin 6 - Ch 2 Line Level Output (+)
Pin 41 - Ch 1 Line Level Output (-)
Pin 24 - Audio Ground
Pin 7 - Ch 1 Line Level Output (+)

Balanced Line Level Audio
Outputs for Auxiliary Use

Pin 42 - J1708 Shield — Shield
Pin 25 - J1708 Inverting — White
Pin 8 - J1708 Non-Inverting — Black

TYPICAL: BELDEN (8)9841 OR 5340FT / 6340FT

Pin 43 - Input Common
Pin 26 - Input Common
Pin 9 - Input Common

Extra Input Commons for
Control Signals

Pin 44 - RS232 Return — Shield
Pin 27 - RS232 Receive — White
Pin 10 - RS232 Transmit — Black

TYPICAL: BELDEN (8)8761

Shield — Pin 5 - DB9
White — Pin 3 - DB9
Black — Pin 2 - DB9

Serial Port Connection
115.2kBaud (8,N,1)
No Flow Control

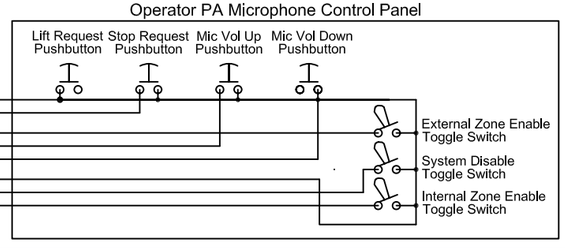
Pin 45 - CH2 Playing Relay Common
Pin 28 - CH2 Playing Relay (N/O)
Pin 11 - CH2 Playing Relay (N/C)

Pin 46 - CH1 Playing Relay Common
Pin 29 - CH1 Playing Relay (N/O)
Pin 12 - CH1 Playing Relay (N/C)

Form C Dry Relay Contact
Outputs for Auxiliary Use
Rating: 1 amp @ 24VDC
Non-Inductive Load

Typical
20 Gauge

Operator PA Microphone Control Panel



Pin 31 - Lift Request Pushbutton Input
Pin 14 - Stop Request Pushbutton Input

Pin 49 - PA Mic External Zone Enable Input
Pin 32 - PA Mic Volume Up Input
Pin 15 - PA Mic Volume Down Input

Pin 50 - Input Common
Pin 33 - MB701 System Disable Input
Pin 16 - PA Mic Internal Zone Enable Input

Pin 17 - Background Music Audio Input

Single Ended Line Input for BGM
(Reference to Audio Ground, Pin 34)

Typical Belden Part # for J1708
Communication Cable

GAUGE	NON PLENUM	PLENUM
24	9841	89841
18	5340FT	6340FT

Typical Belden Part # for RS232
Communication Cable

GAUGE	NON PLENUM	PLENUM
24	8761	88761

Note: All Wire gauges and types are for reference purposes only. Actual wire sizes and types should be selected based on the wiring run in each installation.

MACKENZIE LABORATORIES, INC.
1163 NICOLE CT * GLENDORA * CALIFORNIA 91740 * U.S.A.

TITLE

DADS-MB701, TYPICAL INSTALLATION WIRING DIAGRAM

DRAWN	MM	10 SEP 09
CHECK		
PRINT		

E3401 | 0

E3401