



Operating Manual

A 1717 Message Player

Redback® Proudly Made In Australia

IMPORTANT NOTE:

Please read these instructions carefully from front to back prior to installation.
They include important setup instructions.
Failure to follow these instructions may prevent the unit from working as designed.

1.0 OVERVIEW

The A 1717 is an MP3 based message player housed in a compact flange mount aluminium enclosure and offers playback of four MP3 tracks. Ideal for custom programming, tones, messages or music for use in interactive displays, security, customer entry and emergency evacuation announcements.

When combined with a Redback A 1708/S 0080 timer it can be used to play back scheduled messaging. The included SD card is preloaded with standard tones, including bell, bing bong, siren and pre-announcement chime, plus Australian Standard alert and evacuation tones (complying to AS1670.4).

Playback for each track can be activated by a closing set of contacts. Contacts may be configured between alternate or momentary action.

Trigger 4 contacts can be configured to provide a cancel playback switch.

A 24V DC switched output is activated when any message is active. The unit is supplied with a 24V DC 1amp power supply.

2.0 INSTALLATION

Power requirements: The A 1717 needs a minimum of 24VDC at 300mA to work correctly. Maximum working voltage is 30VDC, do not exceed 30VDC as it will cause permanent damage to the unit. The power is connected via the 2.1mm (tip positive) DC socket on the rear of the unit or via the euro block terminals (see fig 2).

Output: Output is via the stereo RCA connectors on the rear. Output level is nominal 500mV but is related to the recorded level of the MP3.

Input triggers: The input triggers are activated by closing contacts on the rear of the unit whether by a normally open switch or a timer or controller.

Switched output: The switched output terminal is triggered when any zone is activated. The voltage output is the same as the power supplied to the unit. ie if the A 1717 is powered by 24V, the switched output voltage will be 24V.

3.0 PLAY MODES

Alternate: When the A 1717 is in Alternate mode (DIP1 switch1 OFF) (see Fig 3) the closing contact must be held for the duration of the MP3 play time, if it is released before the MP3 ends the MP3 will stop playing immediately. If the contact is held closed continually the MP3 will continue to loop over and over until the contact is released.

Momentary: In Momentary mode (DIP1 switch1 ON) (see Fig 3) a momentary closing contact or pulse on the trigger pins will activate the MP3. The A 1717 will continue to play the MP3 till it finishes and will stop playing and wait for another trigger activation.

To stop an MP3 playing when in Momentary mode the Cancel trigger is used. A momentary closing contact on the Cancel trigger will stop the MP3 playing (it is recommended that the Cancel contact be held closed for up to 2 seconds to ensure the MP3 stops playing)

4.0 FRONT PANEL CONNECTIONS

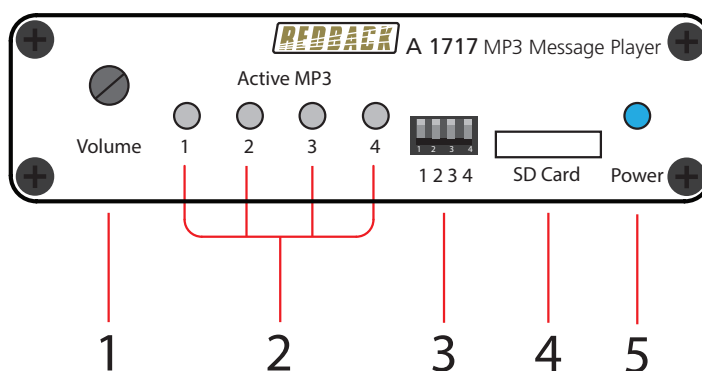


Fig 1

- 1 Volume**
Use this to adjust the volume.
- 2 Message Active Indicators**
These LED's indicate when the associated message is playing. The messages are activated by using the triggers on the rear of the unit. (See Fig 2 for details.)
- 3 DIP Switches**
These switches are used to enable various options. See section 7 for more details.
- 4 Micro SD card slot**
The Micro SD card which has the messages (in MP3 format) to be played is inserted here. The Micro SD card can be a maximum of 16GB.
- 5 Power Led**
This LED indicates when the unit is ON.

5.0 REAR PANEL CONNECTIONS

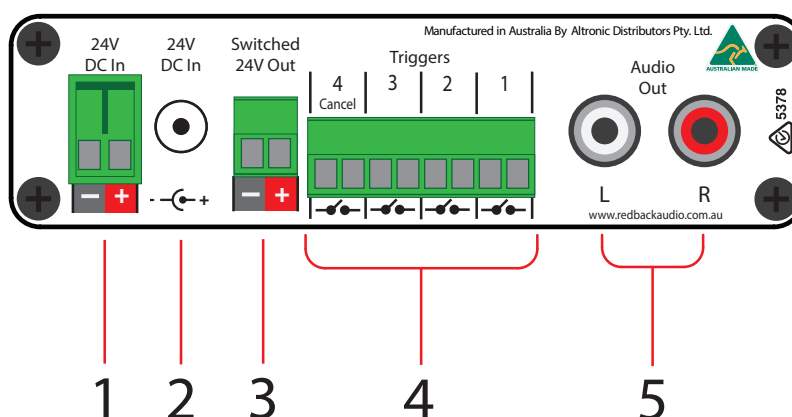


Fig 2

- 1 24V DC Input**
Connects to a 24V DC supply with at least 0.5 Amp current capacity. (Please observe the polarity)
- 2 24V DC Input**
Power is supplied to the unit via a 2.1mm (tip to positive) DC socket. The input voltage must be between 24-30V DC.
- 3 Pluggable 12-30VDC switched output**
Connects via Euroblock screw terminals. Please observe correct polarity when connecting. The switched output terminal is triggered when any message or tone is activated. The output voltage is the same as the power supplied to the unit. ie if the A 1717 is powered by 24V DC, the switched output voltage will be 24V DC.
- 4 Message 1-4 Triggers**
The message triggers are activated by closing contacts on the rear of the unit whether by a normally open switch or a timer or controller. The triggers can be set to Momentary or Alternate triggering. See DIP SW settings. Trigger 4 also acts as a remote cancel when DIP switch ?? is set to ON.
- 5 RCA Stereo Line Output**
Connect these outputs to the output amplifier. Output level is nominal 500mV but is related to the recorded level of the MP3.

6.0 INSTALLING MP3 FILES

You will first need to remove power from the A 1717 then remove the SD card from the front of the unit. To remove the SD card push the card in and it will eject itself.

In order to access the program, the SD card will need to be connected to a PC. You will need a PC or laptop equipped with an SD card reader to do this. If an SD slot is not available then the D 0371A USB Memory Card Reader or similar would be suitable (not supplied).

Step by step guide to install an MP3 into Trigger1 with a Windows installed PC

Step 1: Make sure the PC is on and card reader connected and correctly installed. Then insert the SD card into the reader.

Step 2: Go to "My Computer" or "This PC" and open the SD card which is usually marked "Removable disk".

In this case it is named "Removable disk (J:)" as shown in figure 3.

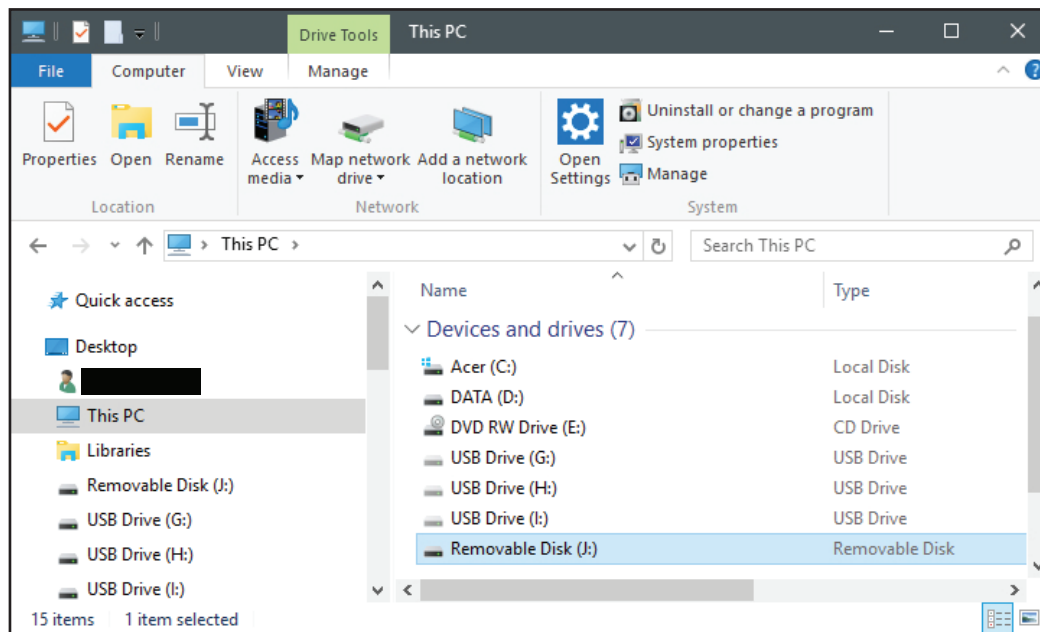


Fig 3

Step 3: Open the Removable Disk and you should get a window that looks like figure 4.

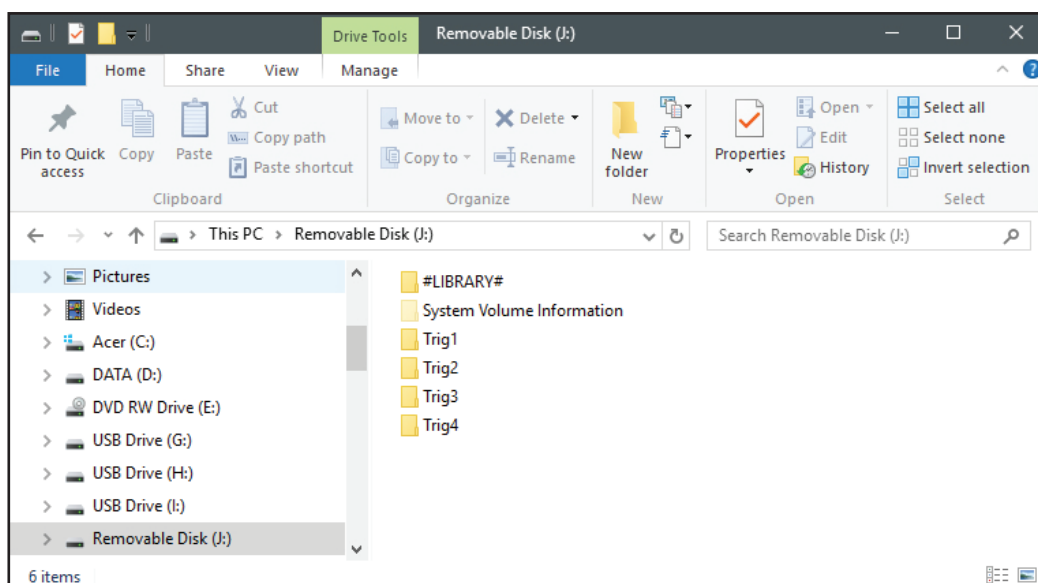


Fig 4

The contents of the SD Card include a Library folder of sample MP3 files and four folders for the trigger MP3 files. These four folders correspond to the triggers on the rear of the A 1717.

Step 4: Open the Trig1 folder and you should see an MP3 file which could be named Trigger1.MP3 as shown in figure 5.

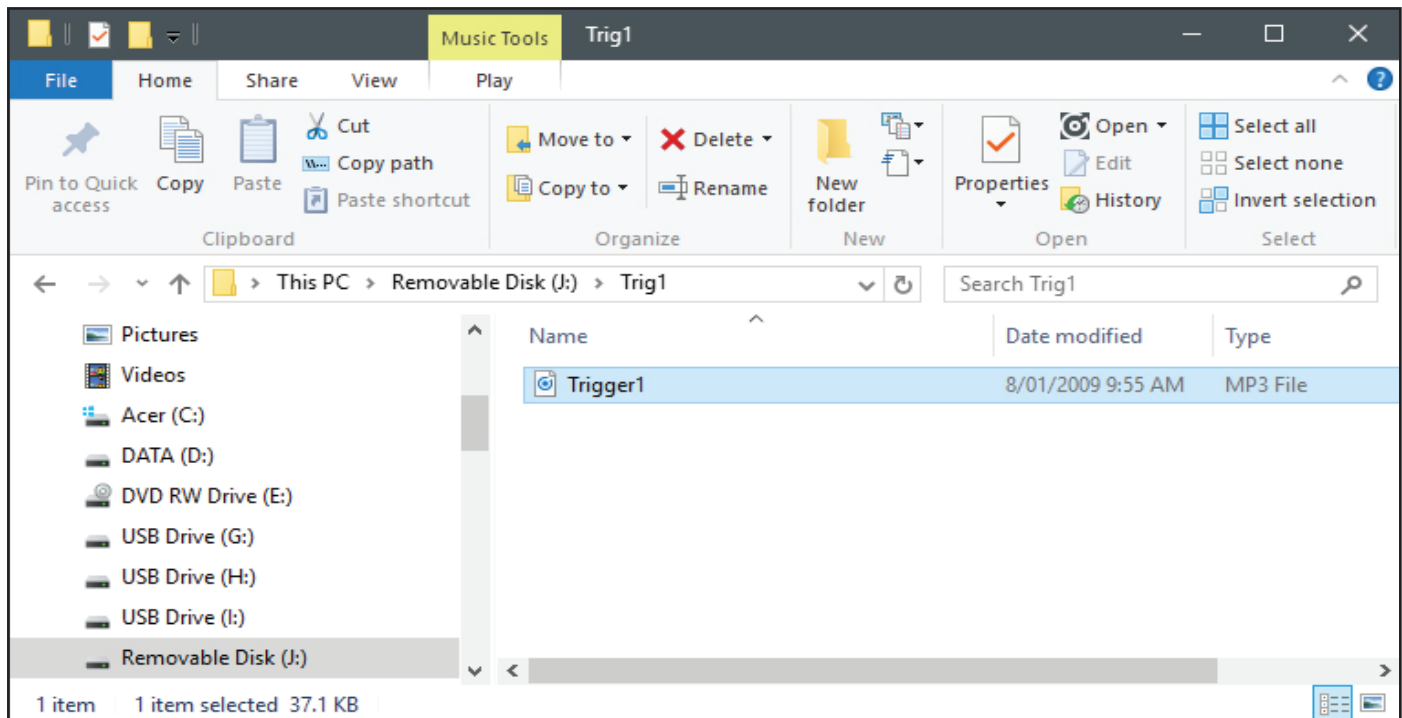


Fig 5

This MP3 file needs to be deleted and replaced by the MP3 file you want to play when you activate trigger1. The MP3 file name is not important. But it is important that there is only one MP3 file in the trig1 folder.

Step 5: Delete the trigger1.MP3 file and replace with the MP3 file of your choosing which in our case is Trigger1Music.

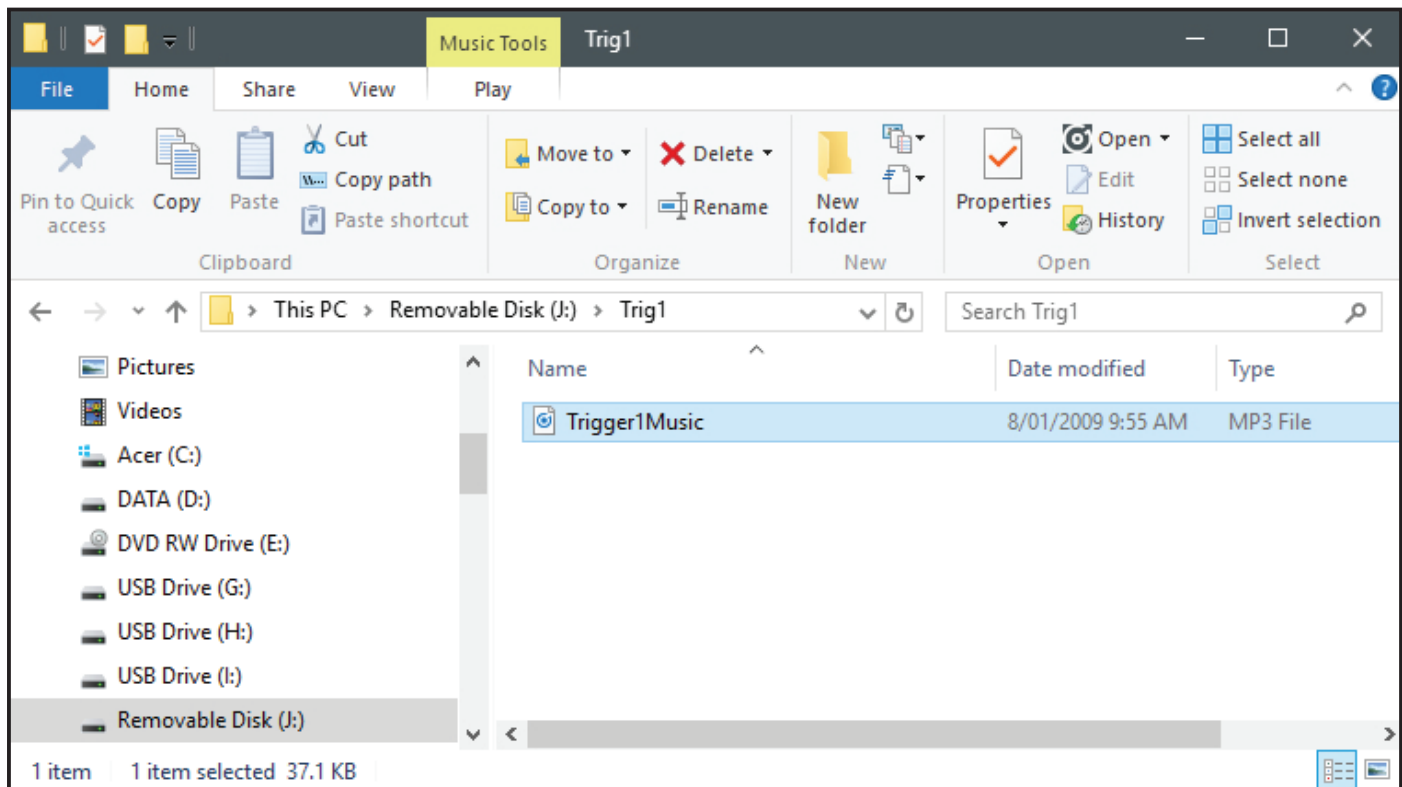


Fig 6

Step 6: Check the properties of the MP3 file.

NOTE the new MP3 file cannot be "Read only". To check this, right click on the MP3 file and scroll down and select Properties, you will get a window that looks like figure 7.

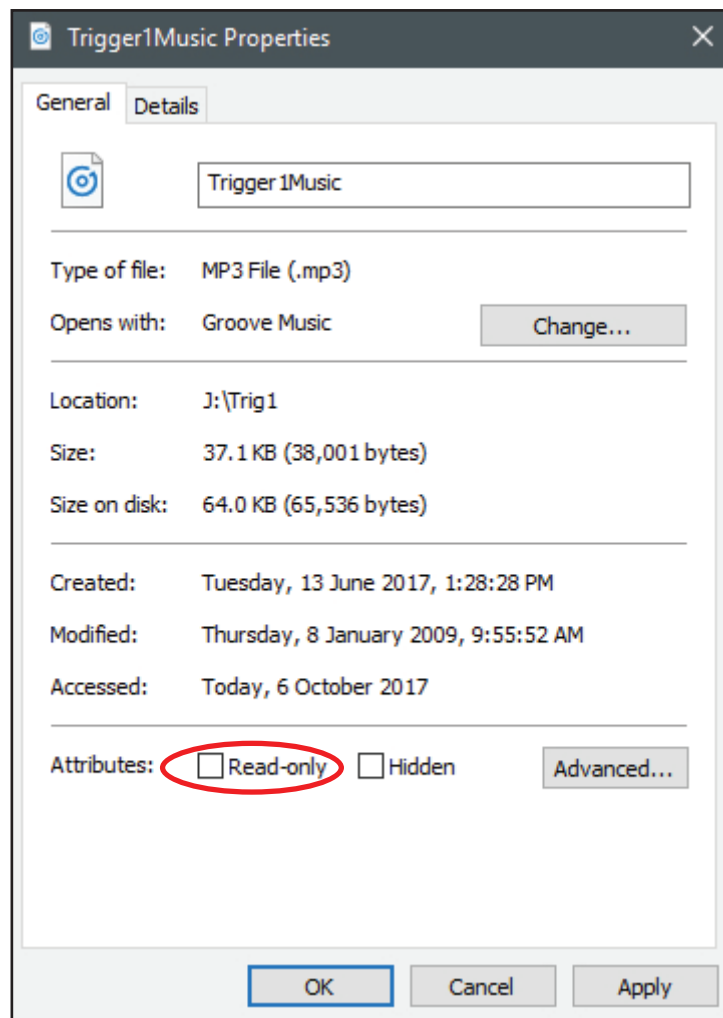


Fig 7

Make sure the "Read Only" box has no tick in it.

The new MP3 is now installed on the card. Repeat these steps for Trigger2 to Trigger4 if you need to.

Step 7: The card can be removed from the PC following windows safe card removal procedures. Make sure the A 1717 is OFF and insert the SD card into the slot in the front; it will click when fully inserted. The A 1717 is ready to use.

7.0 DIP SWITCH SETTINGS

SW 1 - Momentary or Alternate triggering

Alternate: When the A 1717 is in Alternate mode (DIP switch1 OFF) the closing contact must be held for the duration of the MP3 play time, if it is released before the MP3 ends the MP3 will stop playing immediately. If the contact is held closed continually the MP3 will continue to loop over and over until the contact is released.

Momentary: In Momentary mode (DIP switch1 ON) a momentary closing contact or pulse on the trigger pins will activate the MP3. The A 1717 will continue to play the MP3 till it finishes and will stop playing and wait for another trigger activation.

To stop an MP3 playing when in Momentary mode the Cancel trigger is used (check DIP switch 2 settings). A momentary closing contact on the Cancel trigger will stop the MP3 playing (it is recommended that the Cancel trigger be held closed for up to 2 seconds to ensure the MP3 stops playing).

SW 2 - Cancel Trigger Option

When DIP switch 2 is set to ON, trigger 4 acts as a cancel trigger.

SW 3-4 - Not used.

8.0 TROUBLESHOOTING

NO Power (Power LED does not illuminate):

Check power supply DC jack is 2.1mm and not 2.5mm size.
 Check power supply voltage is 24-30VDC.
 Check power supply is a DC output, not AC.

How do I cancel a trigger?

Check DIP switch 2 is set to ON. Trigger 4 then becomes a cancel trigger.

9.0 FIRMWARE UPDATE

It is possible to update the firmware for this unit by downloading updated versions from redbackaudio.com.au.

To perform an update, follow these steps.

- 1) Download the Zip file from the website.
- 2) Remove the micro SD card from the A 1717 and insert it into your PC.
- 3) Extract the contents of the Zip file to the root folder of the SD Card.
- 4) Rename the extracted .BIN file to update.BIN.
- 5) Remove the SD card from the PC following windows safe card removal procedures.
- 6) With the power turned OFF, insert the SD card back into the A 1717.
- 7) Turn the A 1717 ON. The unit will check the SD card and if an update is required the A 1717 will perform the update automatically.

10.0 SPECIFICATIONS

Power supply: 24VDC to 30VDC 300mA (idle/maximum current draw 150mA) tip positive
 Output: Stereo RCA 500mV nominal
 MP3 sample rate: 44kHz
 SD card size: 256MB to 16GB
 Trigger activation: Closing contact
 Switched output: 24-30VDC out (supply voltage dependant), limited to 120mA current draw

MP3 info:

Length/size: Limited by card size (800mins @ 128kbps, 44kHz on supplied 8GB)
 Bit rate: All standard MP3 rates (128kbps recommended)
 Sample rate: All standard MP3 rates (44kHz recommended)
 Channels: Stereo or mono

* Specifications subject to change without notice.



REDBACK

Since 1976 Redback amplifiers have been manufactured in Perth, Western Australia. With over 35 years experience in the commercial audio industry, we offer consultants, installers and end users reliable products of high build quality with local product support. We believe there is significant added value for customers when purchasing an Australian made Redback amplifier or PA product

Australian Made Status

Since starting manufacturing of commercial audio equipment in the mid 70's we have always taken pride in producing a quality local product.

The new adoption of the Australian Made logo will help us get the word out to local and export markets that our products carry the official compliance seal of the Australian Made campaign. We have always pushed our 'local is better' line in all of our marketing efforts, it's always an added boost when you are backed up by a widely recognised and respected icon.

Industry leading 10 year warranty.

There's a reason we have the industry leading DECADE warranty. It's because of a long tried and tested history of bulletproof reliability. We've heard PA contractors tell us they still see the original Redford amplifier still in service in schools - that's over 37 years of operation - and still going strong!