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Equipment Affected   :   OQAR & PQAR
Part Numbers   :   D52000 - (All Models)
Classification   :   Information

Introduction

These notes have been prepared to assist an operator in interrogating the OQAR/PQAR ACTIVITY monitor status, in order to establish if the OQAR/PQAR is receiving aircraft data.

This can be done by selecting the menu option 01 OPERATOR|ACTIVITY. The OQAR/PQAR will then display three letters corresponding to the three possible data sources:

- A for ARINC 573/717 data
- R for RS422 data
- Q for ARINC 429 data.

When a data interface is found active, the OQAR/PQAR will indicate this with a '*' (see Figure 1) following the corresponding interface letter.

When the data interface is found inactive the OQAR/PQAR will indicate this with a '-' following the corresponding interface letter.

For example if only the ARINC 573/717 data interface was active and the other two were inactive, then the resulting display would be "A* R- Q-".

NOTES:

1. To confirm a selection press the enter key, but to abandon the selection press the exit key.

2. Repeatedly pressing the EXIT key will back up the menu system until the default display of TIME and DATE is displayed. Press the EXIT key again to then display the 01 OPERATOR menu.

3. It is possible for the OQAR/PQAR to record data simultaneously from all three interfaces; therefore the activity displays in steps 4 to 6 above may indicate activity on more than one interface at the same time.

4. If the OQAR/PQAR is not able to establish 'sync' on the ARINC 573/717 interface then the activity display may show "AE R- Q-" instead. In this case electrical signal activity is found – but the OQAR/PQAR is not able to find the embedded sync words.

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Procedure.

In order to display the ACTIVITY MONITOR, follow this procedure:

1. Press the EXIT key to display the 01 OPERATOR menu (you may have to press this key more than once to display this menu).
2. Press the ENTER key to display the first option "ACTIVITY", the lower display will indicate the current data interface activity and if none is found it will show "AR- Q-"(see figure 1).
3. Start the recording activity (this may include ground based engine tests, or 'air / data' tests – resulting in activity on the data interfaces to the OQAR/PQAR).
4. If ARINC 573/717 Interface activity is found, then the lower display will change to "A* R- Q-".
5. If ARINC 429 Interface activity is found (applicable to OQAR/PQAR part numbers D52000-X0XXX models only), then the lower display will change to "A- R- Q*".
6. If RS422 Interface activity is found, then the lower display will change to "A- R* Q-".

Figure 1

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