SAMPLE

VERSION 1.0

ABNORMAL CHECKLIST

DA40-D

DODAR PROCESS

Diagnosis / Options / Decide / Assign tasks and Action / Review decision

TAKE-OFF FROM A SHORT GRASS STRIP BRAKES APPI Y FLAPS _T/O POWER LEVER MAX ELEVATOR_ FULLY AFT BRAKES RELEASE HOLD DIRECTION USING RUDDER In strong crosswinds steering can be augmented by use of the toe brakes. It should be noted, however, that this method increases the take-off roll, and should not generally be used. **ELEVATOR** RELEASE SLOWLY Allow airplane to lift off as soon as possible and increase speed at low level. AIRSPEED 66 KIAS (1150 kg) FLAPS UP 75KIAS AIRSPEED LANDING LIGHT AS REQD

INDICATIONS OUTSIDE OF GREEN RANGE (RPM)

An RPM in the yellow range is permissible for a short time if required, e.g. for goaround. If the available power is too low to continue a safe flight, perform a precautionary landing on the nearest airfield in accordance with 4B.1 -PRECAUTIONARY LANDING.

INDICATIONS OUTSIDE OF GREEN RANGE (COOLANT) CHECK COOLANT (WATER LEVEL) HIGH COOLANT TEMP CAUTION LIGHT (WATER LEVEL) **DURING CLIMB** REDUCE POWER INCREASE AIRPSEED +10KIAS DURING CRUISE REDUCE POWER INCREASE AIRPSEED +10KIAS If the coolant temperature does not return to the green range, perform a precautionary landing on the nearest airfield in accordance with 48.1 precautionary landing on the nearest airfield in ac PRECAUTIONARY LANDING. CAUTION LIGHT (WATER LEVEL) POWER LEVER REDUCE Expect loss of coolant. A further increase in coolant temperature must be expected. Prepare for an emergency landing in accordance with 3.5.1 - EMERGENCY LANDING WITH ENGINE OFF LOW COOLANT TEMP_ CHECK COOLANT (WATER LEVEL) nt from high altitudes with a low pow temperature may decrease. During an extended tting coolant POWER LEVER Expect loss of coolant. A further decrease in coolant temperature must be expected. ce with 3.5.1 - EMERGENCY LANDING Prepare for an emerger

INDICATIONS OUTSIDE OF GREEN RANGE	(OIL TEMP)
HIGH OIL TEMPCH	ECK OIL PRESSURE
OIL PRESSURE	LOW
POWER LEVER	REDUCE
Expect loss of oil with engine failure. Prepare for an emergene accordance with 3.5.1 - EMERGENCY LANDING WITH ENG	,
If the oil pressure is within the green range	
POWER LEVER	REDUCE
AIRSPEED	INCREASE
MONITOR	OIL TEMP
If the oil temperature is low	
POWER LEVER	INCREASE
AIRSPEED	REDUCE
MONITOR	OIL TEMP

NITS MEMONIC

Nature / Intentions / Time / Special Instructions

INDICATIONS OUTSIDE	OF GREEN RANGE (OIL PRESS.)
HIGH OIL PRESSURE	CHECK OIL TEMP
COOLANT	CHECK COOLANT TEMP
,	reen range: - Expect wrong oil pressure indication. the temperatures are not within the green range
POWER LEVER	REDUCE
, , , , , , , , , , , , , , , , , , , ,	an emergency landing in accordance with 3.5.1 - LANDING WITH ENGINE OFF.
LOW OIL PRESSURE	REDUCE POWER
POWER LEVER	REDUCE
MONITOR	CHECK OIL TEMP
	r. Prepare for an emergency landing in accordance
with 3.5.1 - EMERGE	ENCY LANDING WITH ENGINE OFF.

INDICATIONS OUTSIDE OF GREEN RANGE (GEARBOX)				
GEARBOX TEMP				HIGH
POWER LEVER				REDUCE
AIRSPEED				INCREASE

FLIFI TEMPERATURE

TOLL TEIVITEINA	TORL
FUEL TEMP	HIGH
POWER LEVER	REDUCE
AIRSPEED	INCREASE
Increased fuel temperature can occur when the fuel of fuel temperature can be decreased by transferring tank.	
FUEL TEMP	LOW
POWER LEVER	INCREASE
AIRSPEED	REDUCE
If the fuel cooler is in operation (baffle removed): - Se	elect lower flight altitude, if possible.

FAILURE IN FLAP OPERATING SYSTEM					
FAILURE	CHECK FLAP POSITION				
AIRSPEED	WHITE ARC				
RECHECK	SWITCH POSITION				
ONLY UP AVAIL Land at a flat approach angle, use power le of desce					
ONLY TO AVAIL	73 KIAS				
Land at a flat approach angle, use power lever to control airplane speed and rate of descent.					
ONLY LDG AVAIL	PEFORM NORMAL LANDING				

POST-FLIGHT REVIEW AIDE-MEMOIRE

What happened and why / Was the outcome positive or not / How do we repeat or avoid / Impact on Safety / Were SOP's followed / What are the learning points / Further action require

CERTAIN AIRSPEEDS	(IN EMERGENCIES)
ure after take-off (FLAPS T/O)	850kg - 59KT 1000kg - 66KT 1150kg -72KT

Engine failure after take-off (FLAPS T/O)
Airspeed for best glide angle (FLAPS UP)
Emergency Landing with ENG OFF (FLAPS UP)
Emergency Landing with ENG OFF (FLAPS T/O)
Emergency Landing with ENG OFF (FLAPS LDG)

850kg - 60KT 1000kg - 68KT 1150kg -73KT 850kg - 60KT 1000kg - 68KT 1150kg -73KT 850kg - 60KT 1000kg - 68KT 1150kg -73KT 850kg - 59KT 1000kg - 66KT 1150kg -72KT 850kg - 58KT 1000kg - 63KT 1150kg -71KT

Please refer to DA40-D-AFM

SAMPLE

ABNORMAL CHECKLIST

VERSION 1.0

DA40-D

DODAR PROCESS

Diagnosis / Options / Decide / Assign tasks and Action / Review decision

ELECTRICAL SYSTEM – LOW VOLTS LOW VOLTAGE ON GROUND CIRCUIT BREAKERS _CHECK POWER LEVER INCREASE **CAUTION LIGHT ON** TERMINATE FLIGHT This caution is indicated when the normal on-board voltage (14 V) drops below 12.6 V. Possible reasons are: - A fault in the power supply. - RPM too low. LOW VOLTAGE CIRCUIT BREAKERS CHECK NON ESSENTIAL OFF ELECTRICAL EQUIPMENT CAUTION LIGHT ON_ CONSIDER ALTERNATOR FAILURE

'Low Voltage' Caution During Landing - Follow LOW VOLTAGE (ON GROUND) after landina.

ELECTRICAL SYSTEM – ECU A

ON GROUND	TERMINATE FLIGHT
ECU A DURING FLIGHT	PRESS ECU TEST
Hold for more than 2 seconds to reset the caution message.	If reset, continue the flight.
ECU A CAUTION	LAND ASAP
The engine must be serviced after lan	dina.

ELECTRICAL SYSTEM – ECU B

ON GROUNDTER	MINATE FLIGHT
ECU B DURING FLIGHT	PRESS ECU TEST
Hold for more than 2 seconds to reset the caution message. If reset, con	ntin <mark>ue</mark> the flight.
ECU B CAUTION	LAND ASAP
The engine must be serviced after landing	

ELECTRICAL SYSTEM – ALTERNATOR

ALTERNATOR CAUTION		LLUMINATED/BLINKING
CIRCUIT BREAKERS		CHECK
ESSENTIAL BUS		ON
ELECTRICAL EQUIPMENT		NON ESSENTIAL OFF
LAND		ASAP

ELECTRICAL SYSTEM - ENGINE

ENGINE FAILURE					CHECK
CED 125		7			CHECK
AED 125					CHECK
If an indication aith	on the CED 13E or AED	125 10	noor the and	of the are	an range it

If an indication either on the CED 125 or AED 125 is near the end of the green range, it may happen that it switches over to the yellow or red range for a short time. This will also cause the ENGINE caution light to illuminate

If an indication either on the CED 125 or AED 125 is outside of the green range, proceed in accordance with 4B.2 - INSTRUMENT INDICATIONS OUTSIDE OF THE GREEN RANGE.

ELECTRICAL SYSTEM - PITOT

PITOT CHECK ON

If In icing conditions EXPECT LOSS OF static INSTRUMENTS.

ALTERNATE STATIC

The Pitot heating caution message is displayed when the Pitot heating is switched off, or when there is a failure of the Pitot heating system. Prolonged operation of the Pitot heating on the ground can also cause the Pitot heating caution message to be displayed. In this case it indicates the activation of the thermal switch, which prevents overheating of the Pitot heating system on the ground. This is a normal function of the system. After a cooling period, the heating system will be switched on again automatically.

NITS MEMONIC

Nature / Intentions / Time / Special Instructions

LOW FUEL

FUEL TRANSFER PUMP ON FUEL QUANTITY CHECK As soon as the amount of usable fuel in the main tank is less than 3 US gal (+2/-1 US gal), a caution message is displayed.

If the caution light does not extinguish: Expect loss of fuel. - Be prepared for an emergency landing. - Proceed in accordance with 3.5.1 - EMERGENCY LANDING WITH

ENGINE OFF.

FAILURES ON ALIX ENGINE DISPLAY

FAILURES ON AUX LINGING DISPLAT				
HIGH ELECTRICAL LOAD	REDUCE CONSUMPTION			
ELECTRICAL EQUIPMENT	NON ESSENTIAL OFF			
If the problem	m does not clear itself			
LAND	ASAP			
LOW VOLTAGE	CHECK CIRCUIT BREAKERS			
ELECTRICAL EQUIPMENT	NON ESSENTIAL OFF			
If 'Low voltage' is still indicated on	the AED 125 - Follow procedure in 4B.3.4 -			
ALTERNATOR	FAILURE (ALTERNATOR)			
HIGH VOLTAGE	LAND ASAP			

PRECAUTIONARY LANDING

SYSTEM F	AILURE/WEAT	HER/MEDIC	AL OR OTHER _	DODAR PROCESS
OCCURRE	NCE IN FLIGHT			NITS MEMONIC
RADI <mark>O</mark>				ADVICE ATC
NORMAL	OPS			REFER CHECKLIST

nding of this type is only necessary when there is a reasonable suspicion that due fuel shortage, weather conditions, or at nightfall the possibility of endangering the girplane and its occupants by continuing the flight cannot be excluded.

POST-FLIGHT REVIEW AIDE-MEMOIRE

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Please refer to DA40-D-AFM