



# Aircraft Checklist

MFU - Pilotenclub - LOAV



**3flv.at**

# OE-DGE

## Diamond DA40-180

MTOM = 1150 kg / 2.535 lb

A/C-Size: W: 11.9 m H: 2.0 m L: 8.0 m

| FPL (EXAMPLE) |                   |               |
|---------------|-------------------|---------------|
| 7             | A/C ID            | OE-DGE        |
| 8             | Flight Rules      | V,I,Y,Z       |
|               | Type of Flight    | G             |
|               | Type of A/C       | DA40          |
|               | Wake Turbul. Cat. | L             |
| 10            | Equipment         | BDFGLORY/S    |
| 13            | Departure A/D     | LOAV          |
|               | Departure Time    | 0830          |
| 15            | Speed             | N0125         |
|               | Flight Level      | 080           |
|               | Route             | SNU GRZ       |
| 16            | Destination A/D   | LJMB          |
|               | Total EET         | 0045          |
|               | Alternate A/D     | LOWG          |
| 18            | Other Info        | EET/GOLVA0045 |
|               | PBN/B2C2D2O2S2    | NAV/SBAS      |
| 19            | Endurance         | 04:00         |
|               | Persons on Bord   | 2             |
|               | Emerg. Equipm.    | ELT           |
|               | A/C Colour        | WHITE         |
|               | Name PIC          | NAME          |

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|         |             |                 |
|---------|-------------|-----------------|
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|      |               |                  |
|------|---------------|------------------|
| FUEL | Fuel          | AVGAS 100LL      |
|      | Maximum Fuel  | 156 L / 41.2 gal |
|      | Unusable Fuel | 3.8 L / 1 gal    |

| Oil         | Shell Aero  | 15 W 50  |
|-------------|----------------------------------------------------------------------------------------------|----------|
| Minimum     |                                                                                              | 4 quarts |
| Minimum IFR |                                                                                              | 6 quarts |

| TIRE | Front Tire | 29 psi / 2.0 bar |
|------|------------|------------------|
|      | Main Tires | 36 psi / 2.5 bar |

|              |                             |              |
|--------------|-----------------------------|--------------|
| <b>SPEED</b> | $V_{S0}$ (Stall- Flaps max) | 49 KIAS      |
|              | $V_0$ (Stall- Flaps up)     | 52 KIAS      |
|              | $V_G$ (Flaps up)            | 60-73 KIAS * |
|              | Max. Demo. X-Wind           | 20 knots     |

**\* ) A/C - Mass 850Kg - 1150Kg**

**COM FAIL**

Clear to Land

Return to Landing

Continue Circling

A/D unsafe, don't Land

Land at this A/D and proceed to Apron - wait for Clearance

Do not Land

 Consult POH/AFM for "Warnings, Cautions and additional Information"

**This document does not replace POH/AFM - (DGE 2025 V2.7)**

**PREFLIGHT**

|   |                         |       |
|---|-------------------------|-------|
| 1 | Wing Tanks & Gascolator | DRAIN |
| 2 | A/C Doc, Mass&Bal       | CHECK |

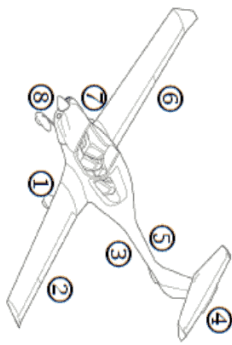


**CABIN CHECK**

|          |                      |              |
|----------|----------------------|--------------|
| 3        | Ignition Key         | REMOVE       |
| 4        | Canopy, Pax Door     | CHECK        |
| 5        | Electr. Equipment    | OFF          |
| 6        | Circ. Breaker        | ALL-IN       |
| 7        | Control Levers       | Check Free   |
| 8        | Prop                 | FULL FWD     |
| 9        | Throttle             | IDLE         |
| 10       | Mixture              | LEAN         |
|          | Master – BAT         | ON           |
|          | Annunc. Panel        | CHECK        |
|          | Fuel Quantity        | CHECK        |
|          | Pos. Light, ACL      | CHECK        |
| <b>Y</b> | Ldg. / Taxi - Light  | CHECK        |
| <b>E</b> | All Doors Closed     | LATCHED      |
| <b>T</b> | Doors Warning        | EXTINGUISHED |
| <b>T</b> | Pax Door             | UNLATCH      |
| <b>A</b> | Doors Warning        | ACTIVE       |
| <b>B</b> | Pull Handle          | MUST HOLD    |
|          | Pax Door Lock Bolts  | CHECK        |
|          | Pax Door Lock Button | MOVES FREE   |
|          | Master – BAT         | OFF          |
| 24       | Loose Items          | CHECK        |
| 25       | Flight Control       | CORRECT      |
| 26       | Trim Tab             | MOVABLE      |
| 27       | Baggage              | SECURED      |



**EXTERIOR CHECK**



**1. Left Main Gear**

|    |                      |            |
|----|----------------------|------------|
| 28 | Gear Strut           | VIS. INSP. |
| 29 | Strut Fairing        | VIS. INSP. |
| 30 | Wheel Fairing        | VIS. INSP. |
| 31 | Tire 36psi / 2,5 bar | CHECK      |
| 32 | Tire Wear, Tread     | CHECK      |
| 33 | Wheel Brake          | VIS. INSP. |
| 34 | Break Line Leaks     | CHECK      |
| 35 | Slip Marks           | VIS. INSP. |
| 36 | Chocks               | REMOVE     |



**2. Left Wing**

|    |                   |            |
|----|-------------------|------------|
| 37 | Wing Surfaces     | VIS. INSP. |
| 38 | Step              | VIS. INSP. |
| 39 | Air Intake Lower  | VIS. INSP. |
| 40 | Openings Lower    | CHECK      |
| 41 | Tank Drain        | DRAIN      |
| 42 | Stall Warning     | CHECK      |
| 43 | Tank Filler       | VIS. INSP. |
| 44 | Tank Air Outlet   | VIS. INSP. |
| 45 | 2x Stall Strips   | VIS. INSP. |
| 46 | Pitot Probe       | CLEAN      |
| 47 | Ldg / Taxi Lights | VIS. INSP. |

**Airspeeds for Normal Operations**

**TAKEOFF**

|                          |               |
|--------------------------|---------------|
| A/C Mass                 | 850 - 1150 kg |
| V <sub>Y</sub> Flaps T/O | 54 - 66 KIAS  |
| Cruise Climb Flaps UP    | 60 - 73 KIAS  |

**LANDING**

|                                |              |
|--------------------------------|--------------|
| Final APP Flaps LDG            | 58 - 71 KIAS |
| Balked Ldg Flaps T/O           | 54 - 66 KIAS |
| Max. demo X Wind               | 20 knots     |
| V <sub>FE</sub> max, Flaps LDG | 91 KIAS      |

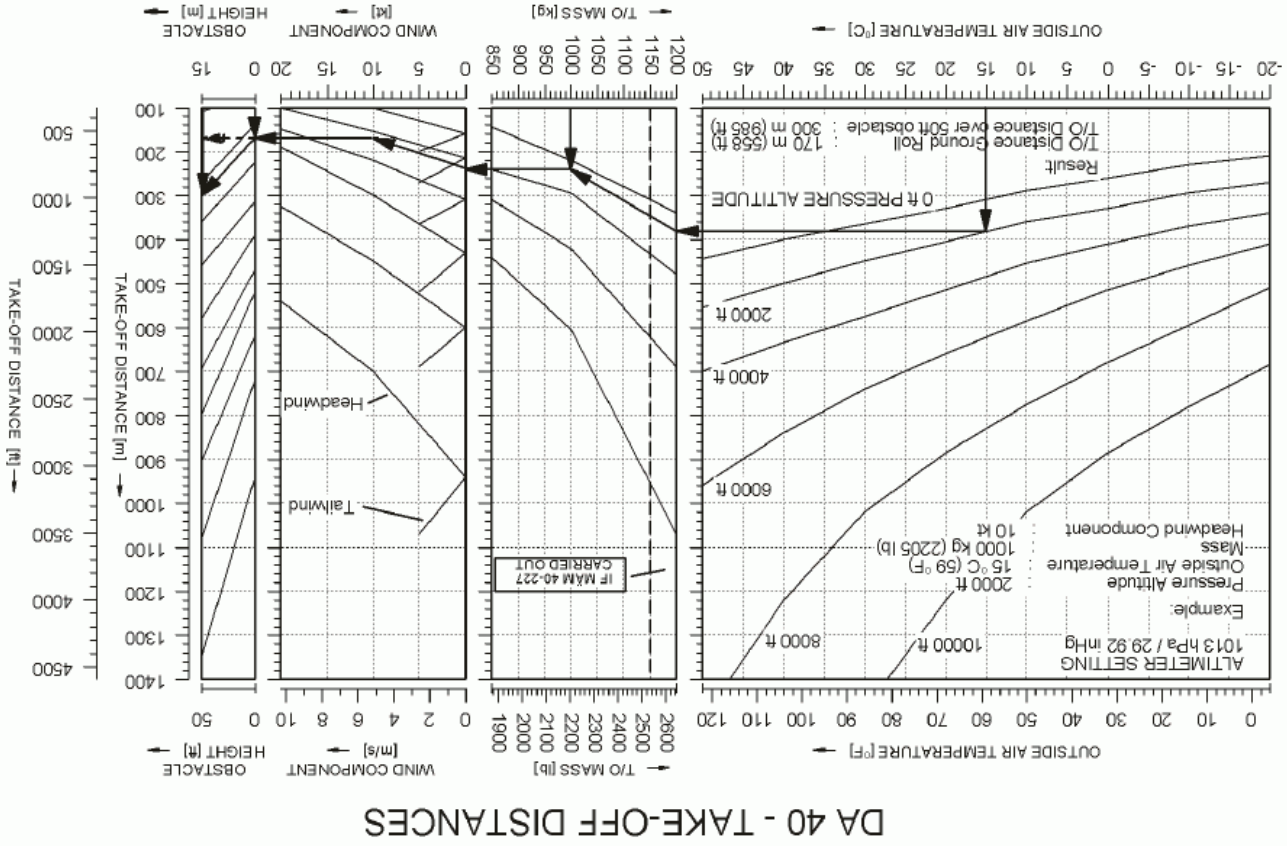
**CRUISE**

|                                 |                |
|---------------------------------|----------------|
| V <sub>A</sub> Maneuvering      | 94 - 108 KIAS* |
| V <sub>NO</sub> Max turbul. Air | 129 KIAS       |
| V <sub>NE</sub> Max Airspeed    | 178 KIAS       |

**Airspeeds for Emergency Operations**

|                                     |                |
|-------------------------------------|----------------|
| V <sub>A</sub> Maneuvering          | 94 - 108 KIAS* |
| Engine Off - Best Glide / Flaps Up  | 60 - 73 KIAS   |
| Engine Off - Best Glide / Flaps T/O | 59 - 72 KIAS   |
| Engine Off - Best Glide / Flaps LDG | 59 - 71 KIAS   |
| Engine Failure after T/O Flaps T/O  | 59 - 72 KIAS   |
| Engine Failure after T/O / Flaps Up | 60 - 73 KIAS   |

\*) A/C - Mass 780Kg - 980Kg 94 KIAS  
\*) A/C - Mass 981Kg - 1150Kg 108 KIAS



|                           |            |
|---------------------------|------------|
| 48 Wing Tip               | VIS. INSP. |
| 49 Pos.Light & AC         | VIS. INSP. |
| 50 Tiedown                | REMOVED    |
| 51 Aileron & Linkage      | VIS. INSP. |
| 52 Aileron Hinges & Pin   | VIS. INSP. |
| 53 Foreign.Obj.AileronPad | VIS- INSP. |
| 54 Flap & Linkages        | VIS. INSP. |
| 55 Flap Hinges & Pin      | VIS. INSP. |

|                     |            |
|---------------------|------------|
| 3. Fuselage (Left)  |            |
| 56 Canopy Left side | VIS. INSP. |
| 57 Pax Door, Window | VIS. INSP. |
| 58 Fuselage Skin    | VIS. INSP. |
| 59 Antennas         | VIS. INSP. |

|                            |            |
|----------------------------|------------|
| 4. Empennage               |            |
| 60 Stabilizer Contr. Surf. | VIS. INSP. |
| 61 Hinges                  | VIS. INSP. |
| 62 Elev. Trim, Wire        | VIS. INSP. |
| 63 Rudder Trim Tab         | VIS. INSP. |
| 64 Fin Tiedown             | REMOVED    |
| 65 Tail Skid & Lower Fin   | VIS. INSP. |

|                      |            |
|----------------------|------------|
| 5. Fuselage (Right)  |            |
| 66 Fuselage Skin     | VIS. INSP. |
| 67 Window            | VIS. INSP. |
| 68 Canopy Right Side | VIS. INSP. |

|                           |            |
|---------------------------|------------|
| 6. Right Wing             |            |
| 69 Flap & Linkages        | VIS. INSP. |
| 70 Flap Hinges & Pin      | VIS. INSP. |
| 71 Aileron & Linkage      | VIS. INSP. |
| 72 Aileron Hinges & Pin   | VIS. INSP. |
| 73 Foreign.Obj.AileronPad | VIS. INSP. |
| 74 Wing Tip               | VIS. INSP. |
| 75 Pos.Light & AC         | VIS. INSP. |
| 76 Tiedown                | REMOVED    |
| 77 Wing Surfaces          | VIS. INSP. |
| 78 2x Stall Strips        | VIS. INSP. |
| 79 Tank Air Outlet        | VIS. INSP. |
| 80 Tank Filler            | VIS. INSP. |
| 81 Openings Lower         | CHECK      |
| 82 Tank Drain             | DRAIN      |
| 83 Step                   | VIS. INSP. |

|                         |            |
|-------------------------|------------|
| 7. Right Main Gear      |            |
| 84 Gear Strut           | VIS. INSP. |
| 85 Strut Fairing        | VIS. INSP. |
| 86 Wheel Fairing        | VIS. INSP. |
| 87 Tire 36psi / 2,5 bar | CHECK      |
| 88 Tire Wear, Tread     | CHECK      |
| 89 Wheel Brake          | VIS. INSP. |
| 90 Break Line Leaks     | CHECK      |
| 91 Slip Marks           | VIS. INSP. |
| 92 Chocks               | REMOVE     |

| 8. Front Fuselage                                                                                |            |  |
|--------------------------------------------------------------------------------------------------|------------|--|
| 93 Oil Level 6-8 Qts                                                                             | CHECK      |  |
| 94 Cowling                                                                                       | VIS. INSP. |  |
| 95 3 Air Intakes                                                                                 | CLEAR      |  |
| 96 Propeller  | VIS. INSP. |  |
| 97 Spinner & Screws                                                                              | VIS. INSP. |  |
| 98 Nose Landing Gear                                                                             | VIS. INSP. |  |
| 99 Tire and Wheel                                                                                | VIS. INSP. |  |
| 100 Slip Marks                                                                                   | VIS. INSP. |  |
| 101 Strut Fairing                                                                                | VIS. INSP. |  |
| 102 Tire Wear, Tread                                                                             | CHECK      |  |
| 103 Wheel Fairing                                                                                | VIS. INSP. |  |
| 104 Tow Bar                                                                                      | REMOVE     |  |
| 105 Tire 29psi / 2,0bar                                                                          | CHECK      |  |
| 106 Chocks                                                                                       | REMOVE     |  |
| 107 Exhaust                                                                                      | VIS. INSP. |  |
| 108 Forw. Cabin Inlets                                                                           | CLEAR      |  |
| 109 Antennas                                                                                     | VIS. INSP. |  |
| 110 Gascolator                                                                                   | DRAIN      |  |
| 111 Venting Pipes                                                                                | CHECK      |  |
| 112 Fuselage Underside                                                                           | CLEAN      |  |

| BEEF ENGINE START                                                                                 |                |  |
|---------------------------------------------------------------------------------------------------|----------------|--|
| 1 Preflight Check                                                                                 | COMPL          |  |
| 2 Rudder Pedals                                                                                   | ADJUST         |  |
| 3 Passenger Briefing                                                                              | COMPL          |  |
| 4 Seat Belts / Harness                                                                            | FASTEN         |  |
| 5 Baggage                                                                                         | SECURE         |  |
| 6 Pax Door                                                                                        | LOCKED/LATCHED |  |
| 7 Door Lock    | UNBLOCKED      |  |
| 8 Front Canopy                                                                                    | POS. 1 or 2    |  |
| 9 Canopy Lock  | UNBLOCKED      |  |
| 10 Parking Brake                                                                                  | SET            |  |
| 11 Flight Controls                                                                                | FREE           |  |
| 12 Trim Wheel                                                                                     | SET T/O        |  |
| 13 Throttle                                                                                       | IDLE           |  |
| 14 Prop                                                                                           | FULL FWD       |  |
| 15 Mixture                                                                                        | LEAN           |  |
| 16 Friction Device                                                                                | ADJUST         |  |
| 17 Alternate Air                                                                                  | CLOSED         |  |
| 18 Alternate Static                                                                               | CLOSED         |  |
| 19 Avionics Master                                                                                | OFF            |  |
| 20 Essential Bus                                                                                  | OFF            |  |
| 21 Master - BAT                                                                                   | ON             |  |
| 22 Annunciator Panel                                                                              | Test 5secs.    |  |
| 23 Fuel Tank Selector                                                                             | FULLER TANK    |  |

|                         |              |      | Motorleistung in % der maximalen Startleistung |      |      |      |      |      | Motorleistung in % der maximalen Startleistung |      |      |      |      |      |
|-------------------------|--------------|------|------------------------------------------------|------|------|------|------|------|------------------------------------------------|------|------|------|------|------|
|                         |              |      | 45 %                                           |      |      |      | 55 % |      | 65 %                                           |      |      | 75 % |      |      |
|                         | Drehzahl     |      | 1800                                           | 2000 | 2200 | 2400 | 2000 | 2200 | 2400                                           | 2000 | 2200 | 2400 | 2200 | 2400 |
| Fuel Flow<br>[US gal/h] | Best Economy |      | 5,8                                            | 6    | 6,3  | 6,6  | 7    | 7,2  | 7,5                                            | 7,9  | 8,2  | 8,5  | 9,2  | 9,5  |
|                         | Best Power   |      | -                                              | -    | 7,3  | 7,7  | -    | 8,5  | 8,7                                            | -    | 9,5  | 9,8  | 10,7 | 11   |
|                         |              |      | Ansaugdruck (MP) [inHg]                        |      |      |      |      |      | Ansaugdruck (MP) [inHg]                        |      |      |      |      |      |
| ISA                     | [°C]         | [°F] | 22,7                                           | 21,3 | 20,2 | 19   | 23,9 | 22,4 | 21,2                                           | 26,8 | 24,9 | 23,4 | 27,3 | 25,8 |
| MSL                     | 15           | 59   | 22,7                                           | 21,3 | 20,2 | 19   | 23,9 | 22,4 | 21,2                                           | 26,8 | 24,9 | 23,4 | 27,3 | 25,8 |
| 1000                    | 13           | 55   | 22,4                                           | 21,0 | 19,9 | 18,7 | 23,6 | 22,2 | 21,0                                           | 26,4 | 24,5 | 23,2 | 26,8 | 25,5 |
| 2000                    | 11           | 52   | 22,1                                           | 20,7 | 19,6 | 18,4 | 23,3 | 21,9 | 20,7                                           | 26,0 | 24,2 | 22,9 | 26,5 | 25,2 |
| 3000                    | 9            | 48   | 21,8                                           | 20,4 | 19,3 | 18,2 | 23,0 | 21,6 | 20,4                                           | 25,7 | 23,8 | 22,6 | 26,1 | 24,8 |
| 4000                    | 7            | 45   | 21,5                                           | 20,2 | 19,0 | 17,9 | 22,7 | 21,2 | 20,1                                           | 25,4 | 23,5 | 22,3 | -    | 24,5 |
| 5000                    | 5            | 41   | 21,2                                           | 19,9 | 18,7 | 17,6 | 22,3 | 20,9 | 19,8                                           | -    | 23,1 | 22,0 |      | 24,1 |
| 6000                    | 3            | 38   | 20,9                                           | 19,6 | 18,4 | 17,4 | 22,0 | 20,6 | 19,5                                           |      | 22,8 | 21,7 |      | -    |
| 7000                    | 1            | 34   | 20,5                                           | 19,3 | 18,2 | 17,1 | 21,7 | 20,3 | 19,3                                           |      | 22,4 | 21,4 |      |      |
| 8000                    | -1           | 31   | 20,2                                           | 19,0 | 17,9 | 16,9 | 21,3 | 20,0 | 19,0                                           |      | -    | 21,0 |      |      |
| 9000                    | -3           | 27   | 19,9                                           | 18,7 | 17,6 | 16,6 | 21,1 | 19,7 | 18,7                                           |      |      | 20,7 |      |      |
| 10000                   | -5           | 23   | 19,6                                           | 18,4 | 17,3 | 16,3 | -    | 19,4 | 18,4                                           |      |      | -    |      |      |
| 11000                   | -7           | 19   | 19,3                                           | 18,2 | 17,0 | 16,1 |      | 19,1 | 18,1                                           |      |      |      |      |      |
| 12000                   | -9           | 16   | -                                              | 17,9 | 16,7 | 15,8 |      | -    | 17,8                                           |      |      |      |      |      |
| 13000                   | -11          | 12   |                                                | 17,6 | 16,4 | 15,5 |      |      | 17,6                                           |      |      |      |      |      |
| 14000                   | -13          | 9    |                                                | -    | 16,1 | 15,3 |      |      | -                                              |      |      |      |      |      |
| 15000                   | -15          | 6    |                                                |      | 15,8 | 15,0 |      |      |                                                |      |      |      |      |      |
| 16000                   | -17          | 2    |                                                |      | 15,5 | 14,7 |      |      |                                                |      |      |      |      |      |
| 17000                   | -19          | -2   |                                                |      | -    | 14,5 |      |      |                                                |      |      |      |      |      |

Shaded Areas are the recommended powersettings

| AFTER LANDING   |          |
|-----------------|----------|
| 1 Throttle      | IDLE     |
| 2 Brakes        | AS REQ   |
| 3 Fuel Pump     | OFF      |
| 4 Transponder   | GND/STBY |
| 5 Pitot Heat    | OFF      |
| 6 Avionics      | AS REQ   |
| 7 Landing Light | OFF      |
| 8 Taxi Light    | ON       |
| 9 Flaps         | UP       |

| SHUT DOWN            |            |
|----------------------|------------|
| 1 Parking Brake      | SET        |
| 2 Engine Instruments | CHECK      |
| 3 ELT (121,5 MHz)    | CHECK      |
| 4 Flight Plan        | CLOSE      |
| 5 Avionic Master     | OFF        |
| 6 Throttle           | 1000 rpm   |
| 7 Taxi Light         | OFF        |
| 8 Position Lights    | OFF        |
| 9 Mixture            | CUTOFF     |
| 10 Ignition          | OFF        |
| 11 Strobes           | OFF        |
| 12 Master ALT - BAT  | OFF        |
| 13 Flight Logger     | SLIDE CARD |
| 14 Map Light         | CHECK OFF  |
| 15 Parking Brake     | AS REQ     |
| 16 Tiedown           | AS REQ     |

| ENGINE START             |                                                                                            |  |
|--------------------------|--------------------------------------------------------------------------------------------|--|
| 1 Bef. Engine Start CL   | COMPL                                                                                      |  |
| 2 Strobe Light / ACL     | ON                                                                                         |  |
| 3 Fuel Pump              | ON                                                                                         |  |
| 4 Throttle               | 3 cm OPEN                                                                                  |  |
| 5 Mixture                | 3-5 SEC RICH                                                                               |  |
| 6 Mixture                | LEAN                                                                                       |  |
| 7 Throttle               | 1 cm OPEN                                                                                  |  |
| 8 Mixture                | 1 SEC RICH                                                                                 |  |
| 9 Mixture                | LEAN                                                                                       |  |
| 10 Fuel Pump             | OFF                                                                                        |  |
| 11 Prop Area             | CLEAR                                                                                      |  |
| 12 Ignition              | START                                                                                      |  |
| 13 Mixture when fires    | RICH                                                                                       |  |
| 14 Oil Press. <15 sec    | IN RANGE  |  |
| 15 Master -ALT           | ON                                                                                         |  |
| 16 Ammeter               | Check                                                                                      |  |
| 17 Fuel Press. 14-35 psi | CHECK                                                                                      |  |
| 18 Annunciator Panel     | CHECK 5 SECS.                                                                              |  |

|                          |               |
|--------------------------|---------------|
| 10 Master - ALT          | ON            |
| 11 Ammeter               | CHECK         |
| 12 Fuel Press. 14-35 psi | CHECK         |
| 13 Annunciator Panel     | CHECK 5 SECS. |

| ENG. START WITH EXT. POWER |      |
|----------------------------|------|
| 1 See Abnormal Ops.        | 4B.8 |

| BEFORE TAXI                                                                                         |             |
|-----------------------------------------------------------------------------------------------------|-------------|
| 1 Avionic Master                                                                                    | ON          |
| 2 Electr. Equipment                                                                                 | ON          |
| 3 Flaps all Positions                                                                               | CHECK       |
| 4 Eng-/Flight Instr.                                                                                | CHECK / SET |
| 5 Instr.-/Flood light                                                                               | AS REQ.     |
| 6 GTN750 NAV Data                                                                                   | CHECK       |
| 7 GPS Selftest                                                                                      | CHECK       |
| 8 Fuel Selector    | LEFT/RIGHT  |
| 9 Pitot On → Ammeter                                                                                | CHECK       |
| 10 Pitot                                                                                            | OFF         |
| 11 Taxi/Posn. Lights                                                                                | AS REQ.     |
| 12 Engine Warm UP  | max 1100rpm |
| 13 Transponder                                                                                      | CHECK       |
| 14 Parking Barake                                                                                   | RELEASE     |
| 15 Brakes                                                                                           | CHECK       |
| 16 Flight Instruments                                                                               | CHECK       |
| 17 Gyro Instruments                                                                                 | CHECK       |

| FLOODED ENGINE START  |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| 1 Strobe Light / ACL  | ON                                                                                           |
| 2 Fuel Pump           | OFF                                                                                          |
| 3 Mixture             | LEAN                                                                                         |
| 4 Throttle            | MID POS                                                                                      |
| 5 Prop Area           | CLEAR                                                                                        |
| 6 Ignition            | START                                                                                        |
| 7 Throttle When Fires | PULL BACK                                                                                    |
| 8 Mixture             | RAPIDLY RICH                                                                                 |
| 9 Oil Press. <15 sec  | IN RANGE  |

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⑤

OE-DGE (Diamond DA40-180)

| BEFORE TAKEOFF              |                |  |
|-----------------------------|----------------|--|
| 1 Parking Brake             | SET            |  |
| 2 Seat Belts/Harness        | FASTEN         |  |
| 3 Pax Door                  | LOOKED/LATCHED |  |
| 4 Front Canopy              | LOOKED/LATCHED |  |
| 5 Door Warning Light        | CHECK OFF      |  |
| 6 Fuel Selector             | FULLER TANK    |  |
| 7 Engine Instruments        | IN GREEN       |  |
| 8 Circuit Breakers          | CHECK IN       |  |
| 9 Fuel Pressuere            | 14-35 psi      |  |
| 10 Autopilot                | ON             |  |
| 11 Flight Controls          | OVERRIDE       |  |
| 12 A/P DISC+Horn            | PRESS & VFY    |  |
| 13 Fuel Pump                | ON             |  |
| 14 Mixture                  | FULL FWD       |  |
| 15 Flaps                    | T/O            |  |
| 16 Trim                     | T/O            |  |
| 17 Flight Controls          | FREE&CORR      |  |
| 18 Throttle                 | 2000 rpm       |  |
| 19 Prop 3x Pull-Drop        | 250-500rpm     |  |
| 20 Ignition R-B-L-B         | Switch         |  |
| 21 Drop max. 175rpm         | Check          |  |
| 22 Diff. L/R max. 50rpm     | Check          |  |
| 23 Ignition Switch Both     | CONFIRM        |  |
| 24 Circuit Breakers         | CHECK IN       |  |
| 25 Voltmeter                | IN GREEN       |  |
| 26 Throttle Idle 600-800rpm | CHECK          |  |
| 27 Alternate Air            | Closed         |  |
| 28 Landing Light            | ON             |  |
| 29 Pitot Heat               | AS REQ.        |  |
| 30 Departure Briefing       | COMPLETE       |  |
| 31 Parking Brake            | Release        |  |

LINE UP / TAKEOFF

|                                  |             |
|----------------------------------|-------------|
| 1 Before T/O Check               | COMPL       |
| 2 Approach Sector                | CLEAR       |
| 3 Runway Heading                 | CONFIRM     |
| 4 Transponder                    | ON/ALT      |
| 5 Prop                           | FULL FWD    |
| 6 Throttle                       | FULL FWD    |
| 7 Full Takeoff Power             | CONFIRM     |
| 8 Elevator                       | NEUTRAL     |
| 9 Rudder                         | DIRECTION   |
| 10 Rotate (V <sub>R</sub> )      | 59 KIAS     |
| 11 Climb Speed (V <sub>Y</sub> ) | 60-66 KIAS* |

\*) A/C - Mass 1000Kg - 1150Kg

CLIMB

|                                 |             |
|---------------------------------|-------------|
| 1 Throttle                      | FULL FWD    |
| 2 Mixture                       | RICH        |
| 3 Prop 2400 rpm                 | REDUCE      |
| 4 Engine Instruments            | IN GREEN    |
| 5 Climb Speed (V <sub>Y</sub> ) | 60-66 KIAS* |
| 6 400ft AGL Safe Alt            | CHECK       |
| 7 Flaps                         | UP          |
| 8 Trim                          | AS REQ      |
| 9 Landing Light                 | OFF         |
| 10 Fuel Pump                    | OFF         |
| 11 Fuel Press.                  | CHECK       |
| 12 Mixture >5000ft              | SET EGT     |

\*) A/C - Mass 1000Kg - 1150Kg

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⑥

OE-DGE (Diamond DA40-180)

| CRUISE - CLIMB          |             |
|-------------------------|-------------|
| 1 Flaps                 | UP          |
| 2 Airspeed              | 68-73 KIAS* |
| 3 Prop 2400rpm          | SET         |
| 4 Throttle              | FULL FWD    |
| 5 Mixture >5000ft       | SET EGT     |
| 6 Engine Instruments    | IN GREEN    |
| 7 Trim                  | AS REQ      |
| 8 Fuel Pump (high Alt.) | ON          |

\*) A/C - Mass 1000Kg - 1150Kg

CRUISE

|                                     |              |
|-------------------------------------|--------------|
| 1 Flaps                             | CHECK UP     |
| 2 Throttle (Page 7)                 | SET          |
| 3 Prop 1800 - 2400 rpm              | SET          |
| 4 Mixture                           | SET          |
| 5 Trim                              | AS REQ       |
| 6 Fuel Selector                     | AS REQ       |
| 7 Fuel Pump (high Alt.)             | ON           |
| 8 Manover Spd V <sub>A</sub>        | 94/108 KIAS* |
| 9 Turbulent Air Spd V <sub>no</sub> | 129 KIAS     |
| 10 Fuel Pump (high Alt)             | ON           |

\*) A/C - Mass 780Kg - 980Kg 94 KIAS

\*) A/C - Mass 981Kg - 1150Kg 108 KIAS

DESCENT

|                         |          |
|-------------------------|----------|
| 1 Mixture               | AS REQ   |
| 2 Prop 1800 - 2400 rpm  | AS REQ   |
| 3 Throttle              | AS REQ   |
| 4 Fuel Pump (high Alt.) | ON       |
| 5 Descent Planning      | COMPLETE |

LANDING APPROACH

|                       |             |
|-----------------------|-------------|
| 1 Fuel Pump           | ON          |
| 2 Fuel Selector       | FULLER TANK |
| 3 Safety Harness      | FASTEN      |
| 4 Airspeed Reduce MAX | 108 KIAS    |
| 5 Flaps               | T/O         |
| 6 Trim                | AS REQ      |
| 7 Landing Light       | AS REQ      |

BEFORE LANDING

|                       |             |
|-----------------------|-------------|
| 1 Mixture             | FULL FWD    |
| 2 Throttle            | AS REQ      |
| 3 Airspeed Reduce     | 91 KIAS     |
| 4 Prop                | FULL FWD    |
| 5 Flaps               | LANDING     |
| 6 Final Approach Spd  | 63-71 KIAS* |
| 7 Prop                | FULL FWD    |
| 8 Throttle            | FULL FWD    |
| 9 Airspeed            | 60-66 KIAS* |
| 10 Flaps              | T/O         |
| 11 400ft AGL Safe Alt | CHECK       |
| 12 Prop               | 2400        |
| 13 Airspeed           | 68-73 KIAS* |
| 14 Flaps              | UP          |
| 15 Fuel Pump          | OFF         |

\*) A/C - Mass 1000Kg - 1150Kg

Consult POH/AFM for "Warnings, Cautions and additional Information"

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