BEFORE ENGINE START

• If required, tell Chief to turn GROUND POWER ON.
• Ejection seat
• Trigger safetySAFE
• Landing gear leverOUT
• AFK (autothrottle) lever
• Data cartridge
• Parking brakeSET
• STRÅLKAST (landing light)
• NÖDBEL (emergency light) FRÅN
• TÄNDSYSTEM (ignition system) switch
• Master mode selector
• HUVUDSTRÖM (main power) switch
• LT-KRAN (low pressure fuel valve) switch
• Master caution
• High pressure fuel valveOPEN
• Generator switch
• Cockpit illumination
• RENFLYGN (autopilot yaw correction)0
• FR 24 radio
• MIK BAND (flight recorder)
• Warning panel lights
• KONTR LAMPTABLÅ (warning panel test) buttonPUSH
• Indicator lights ON
• KONTR LAMPTABLÅ (warning panel test) buttonRELEASE
• Lights marked white
• Radar illumination

BEFORE ENGINE START

• Radar panel
• Radar mode switch
• Antenna elevation
• Passive mode selector OFF
• Puls length selector NORMAL
• Amplification mode switch LOG
• Altimeter signal modulation selectorLAND or SJÖ
• Thrust reverser
• FR 22 radio
• HUD reflector glassLOWER POSITION
• SLAV SI (HUD slave switch) FRÅN
• HÖJD CI SI (altitude source)
• Backup altimeter SET
• Engine pressure ratio
• APP-27 RWR and KB pod
• Exterior lighting
• IFF system
• KURSKORR (course correction) SET MAGNETIC DECLINATION
• Windshield/canopy defrost
• TILS selector
• Radar altimeter
• Circuit brakers
• Oxygen pressure
• Oxygen flow valve
• Weapon selector
• Weapon sight mode selector
• Canopy

ENGINE START

• Radio ATC and REQUEST START-UP.
• Start switch
• STARTSYST (starter system)ON WITHIN 5 SEC
• TÄNDSYST (ignition system)
• Maximum EGT<400°C
If EGT > 400°C (engine might be faulty):
• ThrottleCUT-OFF
• Start switchFRÅN
• Engine RPM
• Engine pressure ratio
• Nozzle indicator
• Max EGT<350°C
• Warning lights
• OLJETRYCK (oil pressure)OUT AFTER MAX 60 SEC
• BRÄ UPPF (fuel system)OUT
• TANK PUMPOUT
• STARTSYST (starter system)OUT @ RPM > 58% • TÄNDSYST (ignition system)OUT @ RPM > 58%
• X-TANK BRÄ (drop trank)OUT @ RPM > 70%
• Autopilot SPAK light
• AVISNING MOTOR (engine de-ice) if icing conditions ON
VENTILATION - DRY START
• TÄNDSYSTEM (igniter)
• ThrottleCUT-OFF
• LT-KRAN (low pressure fuel valve)
• LT-KRAN warning lightOUT
• Start switch
• Start switch

After Engine Start (AC Power)
• Backup instrument illumination
• Roll trim
• Yaw trim (SID TRIM)
• FLI37 ADI
• Backup ADI
• Backup course indicator
• Fuel indicator
• Without external tank106%
• With external tank
• CK37 data LOAD
• CK warning lightOUT
• RENSA (clear) button
• Data selector
• IN/UT selector
• Numpad9099
• ConfirmLS/SKU
INDICATOR SYSTEM CHECK
• KONTROLL button
High alpha warning
• BRAND (fire) warning lightsON
• LANDSTÄLL (landing gear) warning lightOUT
• Altitude warning light
ullet Indicated fuel
• Data indicator panel shows1 and CK PROGRAM NUMBER

• FK-light.....ON

BEFORE TAXI

	R OFF.	OUND POWE	turn	Chief t	ed, tell	If require	•
CHECK		• • • • • • • • • • • • • • • • • • • •	• • • • • • •		ırfaces.	Control su	•
SET					1	Pitch trim	•
0°			• • • • • • • • •	ank	t drop t	• Withou	
3∘↑		• • • • • • • • • • • • •	• • • • • • • •		rop tan	• With d	
kp/cm^2	200 – 270		• • • • • • • •		ssure	Brake pres	•
. RESET						Altimeter	•
2 hPa	• • • • • • • • •	• • • • • • • • • • • •	om QFE	ation f	max devi	• Check	
ON	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		jht	SPAK li	Autopilot	•
TAXI		• • • • • • • • • • • • •			ghts	Landing li	•
ARM					seat	Ejection s	•
OUT					STOL	• HUV O	
CHECK			light	d warnin	ition an	Master cau	•
	RUNWAY	o TAXI TO	ission	JEST pre	and REQ	Radio ATC	•

TAXI

- On increasing throttle \Rightarrow check ejector nozzle closed.
- Full rudder deflection \Rightarrow nose wheel rotation of ~30°C. Differential braking can be used to reduce turn radius.
- Fuel consumption on ground is ~0.3% per minute.
- Thrust reversal may be used to reduce speed.

BEFORE TAKE-OFF

• Radio ATC and REQUEST permission for TAKE-OFF.
• Align aircraft with runway centerline.
• Main and backup course
• Backup ADI and altimeter
• Master mode selector
• Manual course setting
• Autopilot SPAK lightON
• Master caution and warning lights
• HUD symbology
• Landing lightON
Take-off
• Brakes
• Throttle
• EGT
• Throttle AFTERBURNER IF REQUIRED
• Throttle
• AB zone indicator
• AB zone indicator
 AB zone indicator
 AB zone indicator Exhaust nozzle indicator Pressure ratio Zone 2 Zone 3 Airspeed indicator and time line Time line reaches markers (260±10 km/h) ROTATE Flight path vector Without afterburner CORRECT ZONE ACHIEVED MAX POWER Time line reaches markers (260±10 km/h) ROTATE HORIZON LINE
 AB zone indicator Exhaust nozzle indicator Pressure ratio Zone 2 Zone 2 Zone 3 Airspeed indicator and time line Time line reaches markers (260±10 km/h) ROTATE Flight path vector Without afterburner With afterburner HEIGHT OF OUTER PILLARS
• AB zone indicator

LANDING

• Airspeed at approach ~ 550 km/h
\bullet Altitude after descent ~ 500 m
• Autothrottle AFK
$ullet$ AFK mode 3 ($lpha=15.5^{\circ}$)
• AltimeterSET QFE
• SLAV SI
• Thrust reverser
• Backup ADI
• Brake pressure
• Visual approach:
• Master modeLANDN P/O
• Hold airspeed
• Place descent line on runway threshold.
• Place sight dot at runway center line.
• Steer flight path indicator onto descent dot/line.
• TILS approach:
• TILS approach: • Master mode
• Master mode
 Master mode. Runway heading. Data panel. IN/UT selector. LANDN NAV SET DANA UT
 Master mode. Runway heading. Data panel. IN/UT selector. Cycle heading. L/MÅL
 Master mode. Runway heading. Data panel. IN/UT selector. LANDN NAV SET DANA UT
 Master mode. Runway heading. Data panel. IN/UT selector. Cycle heading. L/MÅL
 Master mode. Runway heading. Data panel. IN/UT selector. Cycle heading. TILS light: localizer locked. L/MÅL
 Master mode

TILS DIRECT APPROACH

- Landing approach begins in master mode **NAV** once a landing waypoing L1/L2 becomes the destination.
- Phase 1: Starts by setting master mode to LANDNING NAV. \Rightarrow LB1/LB2 becomes the new destination.
- Phase 2: Starts when LB1/LB2 is passed or "Flip-Flop". \Rightarrow LF1/LF2 becomes the new destination.
- Phase 3: Starts when TILS descent signal is received.

APPROACH PATTERNS

- ullet Flip-Flop: LANDNING NAV o LANDING P/O o LANDNING NAV
- ullet New approach: LANDNING NAV o NAV o LANDNING NAV