

Safety Check

- Read and Do
- Performed
 - Every First Flight of the Day
 - After a Crew Change
 - Anytime electrical power has been interrupted or control panel switch selection is questionable.
- **No Flow Allowed!**
- Check Aircraft Log to make sure you have the correct aircraft and that it matches the ship number, no open write-ups, an airworthiness sign off, etc. Any doubts – call maintenance.

SAFETY CHECK	
Circuit Breakers	Closed
Nosewheel Steering	OFF
Hydraulic Pumps.....	OFF
Landing Gear Lever.....	Down
Flight Spoiler Lever	0
Slat/Flap Lever	Set to Actual Position
Radar	OFF
ADG Manual Release.....	Stowed
EMER FLAP	NORMAL
Battery Master	ON
APU/AC Electrics.....	As Required/Establish
AHRS (both)	MAG
IRS (if installed)	NAV
Hydraulic Pump 3A	As Required
Parking Brake.....	Reset/ON
FMS Initialization	Complete

SOP 2-4

Originating Check

- Performed
 - Every First Flight of the Day
 - The Captain's first flight on the aircraft
 - Aircraft unattended by flight or cabin crew for any extended period of time
 - Maintenance has been done to the aircraft
- Items with an * are First Flight of the Day Only
- Challenge and Response

ORIGINATING CHECK		
Aircraft Logbook & Documents	Checked	BOTH
Emergency Equipment	Checked	CA
Safety & External Walkaround Checks	Complete	BOTH
Gear & Safety Pins	Removed/On Board	BOTH
Pedals, Seat & Harness	Adjusted	BOTH
Audio Warning Panel	Checked	F/O
Electrics	Checked	CA
*Fire Test	Complete	CA
Lights	Checked	CA
Fuel	Checked	CA
Bleeds	Checked	CA
APU	As Required	CA
Start Panel	Checked	CA
Hydraulics	Checked	CA
ELT	ARM/RESET	CA
Pressurization	Checked	F/O
Air-Conditioning	Checked	F/O
*Ice Detector Test	Complete	F/O
Windshield Heat	LOW	F/O
Emergency Lights	ARMED	F/O
Standby Compass	Checked	F/O
*Stall Test	Complete	F/O
Nosewheel Steering	OFF	CA
Clocks	Set	BOTH
EFIS Control Panels	Checked	BOTH
Instrument Panels	Checked	BOTH
EICAS & Standby Instrument	Checked	CA
*Anti-Skid Test	Complete	CA
*MLG Bay Overheat Test	Complete	CA
Upper Pedestal	Checked	CA
Thrust Lever Quadrant	Checked	CA
Avionics	Checked	CA
Trims	Checked	CA
Yaw Dampers	ENGAGED	CA
Source Select Panel	NORMAL	CA
Lower Pedestal	Checked	CA
FMS	SET	CA/F/O
RVSM Qualified	CHECKED	CA

Checklists

Originating Check Flow 1 of 2

- Captain
 - Documents and Logbook
 - [VOR Check Done for the Day?](#)
 - [Open Write Ups?](#)
 - Cabin deferrals, brief FA
 - Emergency Equipment
 - Adjust Seat
 - Nosewheel Steering Off
 - Clock
 - EFIS Control Panels
 - Instrument Panels
 - EICAS & Standby Instrument
 - Electrics
 - *Fire Test
 - Lights
 - Fuel
- First Officer
 - Review Logbook
 - External Walkaround
 - Adjust Seat
 - Initialize ACARS, Get ATIS
 - Audio Warning Panel
 - Clock
 - EFIS Control Panels
 - Instrument Panels
 - Pressurization
 - Air-Conditioning
 - *Ice Detector
 - Windshield Heat
 - Emergency Lights
 - Standby Compass
 - *Stall test

FMX 1-1.3

SOP 2-6, SOP 1-11, GOM 1-2.11

Checklists

Originating Check Flow 2 of 2

- Captain
 - Bleeds
 - APU
 - Start Panel
 - Hydraulics
 - ELT
 - *Anti-Skid Test
 - *MLG Bay Overheat Test
 - Upper Pedestal
 - Thrust Lever Quadrant
 - Avionics
 - Trims
 - Yaw Dampers
 - Source Select Panel
 - Lower Pedestal
 - FMS
 - RVSM
- First Officer
 - Clock
 - EFIS Control Panels
 - Instrument Panel

SOP 2-6, SOP 1-11, GOM 1-2.11

Checklists

Originating

Check

Practice

SOP 2-6, SOP 1-11, GOM 1-2.11

ORIGINATING CHECK		
Aircraft Logbook & Documents	Checked	BOTH
Emergency Equipment	Checked	CA
Safety & External Walkaround Checks	Complete	BOTH
Gear & Safety Pins	Removed/On Board	BOTH
Pedals, Seat & Harness	Adjusted	BOTH
Audio Warning Panel	Checked	F/O
Electrics	Checked	CA
*Fire Test	Complete	CA
Lights	Checked	CA
Fuel	Checked	CA
Bleeds	Checked	CA
APU	As Required	CA
Start Panel	Checked	CA
Hydraulics	Checked	CA
ELT	ARM/RESET	CA
Pressurization	Checked	F/O
Air-Conditioning	Checked	F/O
*Ice Detector Test	Complete	F/O
Windshield Heat	LOW	F/O
Emergency Lights	ARMED	F/O
Standby Compass	Checked	F/O
*Stall Test	Complete	F/O
Nosewheel Steering	OFF	CA
Clocks	Set	BOTH
EFIS Control Panels	Checked	BOTH
Instrument Panels	Checked	BOTH
EICAS & Standby Instrument	Checked	CA
*Anti-Skid Test	Complete	CA
*MLG Bay Overheat Test	Complete	CA
Upper Pedestal	Checked	CA
Thrust Lever Quadrant	Checked	CA
Avionics	Checked	CA
Trims	Checked	CA
Yaw Dampers	ENGAGED	CA
Source Select Panel	NORMAL	CA
Lower Pedestal	Checked	CA
FMS	SET	CA/F/O
RVSM Qualified	CHECKED	CA

Checklists Before Start

- Performed
 - After ATC Clearance and aircraft refueling is completed.
- Challenge and Response

BEFORE START CHECK	
EFB Checklist.....	Complete
Crew O ₂ & Masks/Smoke Goggles.....	Checked (Qty)
Passenger Signs.....	ON
LDG ELEV	Set
Altimeters	(---) Set
FMS	Set/AUTOTUNE
Radios/Nav aids	Set for Departure
ADSB	GJS _____ Set
Thrust Reversers.....	Armed
Departure briefing	Complete
	CA

Number of Crew	Oxygen Bottle Size	
	77 cu ft	50 cu ft.
2	810	1180
3	1110	1630

SOP 2-8, EDG 1-2.7

Checklists Before Start Flow

- Captain
 - Determine PF/PM
 - Oxygen Masks
 - Oxygen Quantity
 - Altimeters
 - FMS
 - Radios / Navaids
 - Thrust Reversers
 - If PF:
 - Departure Briefing
 - Verify Legs
- First Officer
 - Oxygen Mask
 - Passenger Signs
 - Landing Elevation
 - FMS
 - If PF:
 - Departure Briefing
 - Verify Legs

SOP 2-8, SOP 1-11, GOM 1-2.11

Checklists Before Start Practice

BEFORE START CHECK		
EFB Checklist.....	Complete	BOTH
Crew O ₂ & Masks/Smoke Goggles.....	Checked (Qty)	BOTH
Passenger Signs.....	ON	F/O
LDG ELEV	Set	F/O
Altimeters	(---) Set	BOTH
FMS	Set/AUTOTUNE	BOTH
Radios/Nav aids	Set for Departure	CA
ADSB	GJS _____ Set	CA
Thrust Reversers	Armed	CA
Departure briefing	Complete	CA

SOP 2-8, SOP 1-11, GOM 1-2.11

Checklists Cleared to Start

- Performed
 - After flight deck door is closed.
 - Prior to push
- Prior to any aircraft movement the CA will confirm that all passengers are seated
- The Rotating Beacon will be used to notify the ground crew that the cabin and flight crew are prepared for pushback
- Challenge and Response

CLEARED TO START CHECK		
Personal Electronic Devices.....	OFF	BOTH
APU/AC Electrics.....	ON/Checked	CA
Papers.....	On Board	CA
Doors	Closed/Locked	CA
Beacon.....	ON	CA
Fuel pumps & Qty.....	ON, (Qty)	CA
Hydraulic pumps.....	AUTO/ON	CA
Parking brake.....	As required	CA

Note: This is your last chance to make sure that the nosewheel steering is off, ground power removed, beacon is on, and the seat belt and no smoking signs are on prior to aircraft movement. Checking events have ended here.

SOP 1-2.9.7, SOP 2-9

Checklists Cleared to Start Flow

- Captain
 - Personal Electronic Devices Off
 - Papers on Board
 - Fuel Pumps On
 - Hydraulic Pumps Auto/On
 - Beacon On
 - Nosewheel Steering Off
 - APU/AC Electrics On
 - Let the FO know if you will do a single or dual engine taxi, then ask the FO to call for push.
- First Officer
 - Personal Electronic Devices Off

SOP 2-8, SOP 1-11, GOM 1-2.11

Checklists

Cleared to Start Practice

CLEARED TO START CHECK

Personal Electronic Devices.....	OFF	BOTH
APU/AC Electrics.....	ON/Checked	CA
Papers.....	On Board	CA
Doors	Closed/Locked	CA
Beacon	ON	CA
Fuel pumps & Qty.....	ON, (Qty)	CA
Hydraulic pumps.....	AUTO/ON	CA
Parking brake.....	As required	CA

SOP 1-2.9.7, SOP 2-9

Checklists

After Start

- Performed
 - After engine(s) stabilizes.
 - Prior to taxi
- After starting an engine, all items in the after start checklist shall be accomplished, even if the Captain elects to utilize one-engine taxi procedures.
- Items marked with a (D) are delayed engine start items. The items marked with a (D) shall be accomplished again after starting the second engine.

AFTER START CHECK		
*Fuel Check Valve	Checked	CA
Bleeds/Packs	AUTO/ON	F/O
(D) Anti-ice	As Required	F/O
Probes	ON	F/O
Transponder	As Required	F/O
(D) APU/Electrics	As Required/Checked	CA
Flaps	(--°) Indicating	BOTH
Flight Controls	Checked	F/O

Rudder	Checked	CA
Nosewheel Steering	ARMED	CA
Brake Temp	Checked	CA

Checklists After Start Flow

- Captain
 - *Fuel Check Valve
 - Monitor push team and direct their disconnect once you have at least one engine started.
 - Call for Flaps and After Start
 - Once push team is clear
 - Rudder Check
 - Nosewheel Steering On
 - Brake Temperature
- First Officer
 - Has started one or both engines as directed by the Captain
 - Anti-Ice as required
 - Probes on
 - Transponder on PF position
 - Flaps when directed by the Captain
 - Flight Controls Checked

SOP 2-10

Checklists

After Start Practice

AFTER START CHECK		
*Fuel Check Valve	Checked	CA
Bleeds/Packs	AUTO/ON	F/O
(D) Anti-ice	As Required	F/O
Probes	ON	F/O
Transponder.....	As Required	F/O
(D) APU/Electrics	As Required/Checked	CA
Flaps	(--°) Indicating	BOTH
Flight Controls	Checked	F/O
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Rudder	Checked	CA
Nosewheel Steering	ARMED	CA
Brake Temp	Checked	CA

SOP 2-10

Checklists Before Takeoff

- Above the line is normally performed during taxi after flight attendant reports “Cabin Secure”. In low-visibility, high threat, etc. perform with aircraft stopped and parking brake set.
- Below the line is completed when cleared to line up and wait or cleared for takeoff
- Challenge and Response

BEFORE TAKEOFF CHECK		
T/O Fuel Qty/Balance	_Req _OB/CHKD	FO/CA
Fuel Crossflow	MAN/Off	F/O
Flight Attendant	Advised	F/O
Transponder/TCAS	ON/AUTO	F/O
Radar/Terrain	As Required	F/O
Flaps..... (_ °) Set for Takeoff		BOTH
Takeoff data	Set	F/O
Trims.....	Engaged, Zero & (_._)	CA
Flight Instruments.....	Checked	BOTH
Takeoff Briefing	RWY_ /Complete	PF
Runway Change Check	Complete/Not Required	F/O
CONFIRM RUNWAY _____/HDG Bug Set	CONFIRMED/SET	FO/CA
<hr/>		
Lights & Strobes.....	As Required	CA
Ignition/Anti-ice	As Required	F/O
CAS	Checked/Clear	BOTH

Checklists Before Takeoff Flows

- Captain
 - Above the Line
 - Flaps
 - Below the Line
 - Lights & Strobes
 - CAS
- First Officer
 - Above the Line
 - Fuel Crossflow Manual
 - Call Flight Attendant, hear “Cabin Secure”
 - Transponder / TCAS
 - Radar / Terrain
 - Flaps
 - Below the Line
 - Ignition / Anti-Ice
 - CAS

Checklists Before Takeoff Practice

BEFORE TAKEOFF CHECK		
T/O Fuel Qty/Balance	_Req _OB/CHKD	FO/CA
Fuel Crossflow	MAN/Off	F/O
Flight Attendant	Advised	F/O
Transponder/TCAS	ON/AUTO	F/O
Radar/Terrain	As Required	F/O
Flaps..... (_ °) Set for Takeoff		BOTH
Takeoff data	Set	F/O
Trims.....	Engaged, Zero & (_..)	CA
Flight Instruments.....	Checked	BOTH
Takeoff Briefing	RWY_ /Complete	PF
Runway Change Check	Complete/Not Required	F/O
CONFIRM RUNWAY_____ /HDG Bug Set.....	CONFIRMED/SET	FO/CA

Lights & Strobes.....	As Required	CA
Ignition/Anti-ice	As Required	F/O
CAS	Checked/Clear	BOTH

Checklists In Range

- Normally performed after descending below 18,000'.
- Challenge and Response

IN RANGE CHECK		
Sterile Light	ON	PF/PM
LDG ELEV	Set	PM
Fuel	Checked	PF
Altimeters	(---) Set	BOTH
Radar/Terrain.....	As Required	PM
CAS.....	Checked/Clear	BOTH
Landing Data	Set/Checked	BOTH
Approach Briefing	Complete	PF

Checklists In Range Practice

IN RANGE CHECK	
Sterile Light	ON PF/PM
LDG ELEV	Set PM
Fuel	Checked PF
Altimeters	(---) Set BOTH
Radar/Terrain.....	As Required PM
CAS.....	Checked/Clear BOTH
Landing Data	Set/Checked BOTH
Approach Briefing	Complete PF

Checklists Before Landing

- Normally performed after final gear and flaps selection
- Pilot Monitoring Flow
 - Flight Attendant Chime (just press the Chime button, you do not have to select PA first)
 - Arm Thrust Reversers

BEFORE LANDING CHECK		
Flight Attendant	Advised	PM
Thrust Reversers	ARMED	PF
Landing Gear	Down	Both
Flaps	(--°) indicating	Both

Checklists After Landing

- Performed by the FO when the aircraft is clear of the active runway.
- Read and Do

AFTER LANDING CHECK		
APU	As Required	F/O
Radar	OFF	F/O
Flaps	Up	F/O
Lights & Strobes	As Required	F/O
Probes	OFF	F/O
Trims	Zero & 7.0	F/O

Checklists

Shutdown Check

- Taxiing in just short of gate, FO reaches up to seat belt sign.
- As the parking brake is set, the seat belt sign is turned off.
- Once the chocks are in, the seat belt sign is selected on and off, letting the FA know it is safe to open the main cabin door.
- Challenge and Response

SHUTDOWN CHECK		
Chocks & Brakes.....	As Required	CA
Electrics	Set	CA
*Fuel Check Valve.....	Checked	CA
Thrust Levers	Shut Off	CA
Transponder.....	STBY	F/O
Seat Belts.....	OFF	F/O
Anti-ice	OFF	F/O
Fuel Pumps	OFF	CA
Hydraulic Pump 3A.....	As Required	CA
Beacon	OFF	CA
Nosewheel Steering	OFF	CA

SOP 1-6.9.11, 2-23

Checklists

Shutdown Check Practice

SHUTDOWN CHECK		
Chocks & Brakes.....	As Required	CA
Electrics	Set	CA
*Fuel Check Valve.....	Checked	CA
Thrust Levers	Shut Off	CA
Transponder.....	STBY	F/O
Seat Belts.....	OFF	F/O
Anti-ice	OFF	F/O
Fuel Pumps	OFF	CA
Hydraulic Pump 3A.....	As Required	CA
Beacon	OFF	CA
Nosewheel Steering	OFF	CA

Checklists

Terminating Check

- Can be performed by either pilot
- Read and Do

TERMINATING CHECK		
Recirc Fan	OFF	CA
Chocks & Brakes	In & ON	CA
Thrust Reversers.....	OFF	CA
IRS 1 & 2 (if equipped).....	OFF	CA
Emergency Lights.....	OFF	CA
Windshield Heat.....	OFF	CA
CARGO Switch	OFF	CA
Hydraulic Pumps	OFF	CA
External Lights.....	OFF	CA
APU START.....	OFF	CA
APU PWR/FUEL.....	OFF	CA
DC Service.....	OFF	CA
External AC Power Switch	OFF	CA
Battery Master	OFF	CA
Dome Lights	OFF	CA
Boarding Lights.....	OFF	CA