Standard Formation Warm Up Flight Profile

* Meet @ Lead’s AC 10 mins prior to start
  + Spot AC in time to facilitate
* Start on signal or when lead starts
* Taxi 5’ FWD when Ready
* Check-in with Race #
* Staggered Taxi to Run-up
* Line Abreast in Run-up (arc as nec)
* Thumbs up back to front when ready
* Line up on hot side @ 45 deg
* Lead rolls when last AC on
* Interval TO, 1000’
* Hot side TO, Cold Side Abort
* Rejoin Turn Outside of race course
* Rejoin to Echelon on outside of formation (all aircraft)
* Reform to Fingertip
* Proceed to working area, wing work enroute (Fingertip and/or Route turns)
* Change to Tactical Freq.
* Area Work
  + Formation changes and maneuvers directed by radio, except Pitchout and Rejoins (via hand signal)
  + Maneuvers:
  + Fingertip Turns
  + Crossunders
  + Echelon Turns
  + Pitchout and Rejoins
  + Extended Trail
* OPS Checks as needed
* RTB
  + Fingertip for transit (Route as desired)
  + Echelon approaching initial
  + Standard Overhead Break
* Land hot, fade cold
  + No early turnoffs
* Collect Flight
* Taxi in
* Shutdown on lead’s signal or as briefed
* Debrief

Standard Formation Warm Up Flight Profile (Expanded)

Final Brief at Lead's Airplane 10 min prior to Engine Start

Engine start on signal from Lead or simply start when he does.

Taxi forward 5 feet when you are ready

Check in on 122.7 with race numbers when called by lead

Follow Lead in order, taxi staggered

Line-up abreast in run-up area and complete engine checks

Pass thumbs up through the line-up to lead.

Lead taxis out followed by Flight and lines up on 45 degree angle on North

(Hot) Side.

Lead rolls when last airplane is in place

Each flight member rolls when preceding aircraft is 1000 feet down runway

Take-off on Hot Side, Abort to cold side and takes first avail turnoff.

Aborting aircraft calls, aircraft already rolling continue, others hold

until clear

Flight lead goes past the race course before turning to the North to

initiate the rejoin

Flight joins to echelon on outside of turn

Lead redirects flight to fingertip on the radio and proceeds to working

area, moves flight to route, and changes flight to discrete freq

Lead performs mild wing work on the way to the area.

In area, Lead directs all position changes and maneuvers except pitch-outs

and rejoins via the radio.

Wing work:

Echelon turns left and right

Cross-unders

Pitch-out/rejoins

Extended trail

Lead executes all echelon turns away from the echelon

For Pitchout: Lead lines up on section line (as able/desired), directs the flight to echelon over the radio.

Lead signals for pitchout (3 second interval), and pitches out 180 degrees (60 degree AOB, 2g turn).

All wingmen pitch in sequence, 180 degree, 60 deg AOB, 2g turn.

Last flight member calls in when all aircraft lined up after 180 degree turn..

Lead executes exaggerated wing rock and initiates 20-30 degree AOB rejoin turn.

Flight members move to 45 deg bearing line and rejoin to Echelon on the outside of turn.

Lead signals Extended Trail with a radio call, all wingmen respond. Extended trail will be flown 500-1000 feet and entered from echelon by a normal 3 second pitchout. Last airplane calls in as soon as he has separation (don’t wait for 180 degrees of turn to call in).

Lead will call for periodic Ops Checks by saying "Go route for Ops Check"

Members answer "race number, minutes fuel"

Leaving area, lead reforms formation to fingertip

Lead directs the flight to echelon approaching the field

Lead flies down initial for an overhead pattern pitching out when spacing

is appropriate for his flight and preexisting traffic

Land on hot side, clear to cold side. No midfield turn-offs.

Contingencies:

Generally Lead will accompany Mayday Aircraft back to Stead or emergency divert field and send the other flight members home single ship

Simple radio failure will fly wing back to the field.  Lead will pitch-out and land.  Nordo aircraft will follow.

Wingman having airmanship difficulties will be sent home single ship

For Lost wingman--wingman declares that he lost sight and lead directs the rejoin