**Red Arrows BAe Hawk**

**Start-up Procedures**

**Left Console**Battery Switches - On  
LP Cock - Fully On  
Engine start switch - Off  
Fuel pump switch - On  
Pitot heater switch - Off  
Trim indicators - Normal  
Ignition Switch - On  
Throttle - Free movement  
Anti-skid switch - Off  
Standby UHF switch - MAIN  
Hyd 1 & 2 gauges - Check condition  
Brake Gauges - Check pressures  
  
**Left Instrument Panel**  
U/C standby handle - Not pulled  
Flap standby handle - Not pulled  
Landing gear indicator - 3 greens  
Voltmeter - 23 to 24 volts  
Flap selector - Down  
Flap indicator - Check indication with flap position  
DGI - Check condition  
CSI - Check condition  
Turn and slip indicator - Check condition, window black  
Tailplane trim indicator - Check condition  
Accelerometer - Reset  
Main attitude indicator - Check condition, flag retracted  
HSI - Check condition, power flag restracted  
ILS marker light - Test  
UHF power switch - Normal  
VSI - Zero, check condition  
Main altimiter - check condition, flag retracted  
SAI - Erect, flag restracted  
Standby instruments switch - Normal  
  
**Right Instrument Panel**  
Standby altimeter - Check condition, flag restracted  
Cabin altimeter - Check condition  
Oxygen - OXY caption out  
Fuel gauge - Check contents  
TGT - Check condition  
RPM Gauge - Zero, check condition  
Rotation indicator - Black  
GTS Indicator - Black  
CWP - Test (remain on)  
Red indicators - HYD GEN  
Yellow indicators - HYD1 HYD2 TRANS FRP SKID OIL AC1 AC2 AC3  
Lighting switches - set as required  
Dimmers - set as required

**Right Console**  
Parking brake - Set  
VHF - Set as required  
UHF Aerial Switch - Set as required  
ILS - Set as required  
Tacan - Set as required  
Radio - Set as required  
Cabin conditioning - Set to Normal  
Cabin air temperature switch - Set to Auto  
ADR status indicator - FAIL  
IFF/SSR - SBY  
  
**Pre-Start**  
Engine start switch - Set to ON  
Anti-collision lights - Set as required (Down=red Mid=off Up=white)  
  
**Starting**  
Relight button - Press and release  
Throttle - set to idle  
  
**During Start**  
TGT and RPM - Monitor (if TGT > 570degC, set throttle to HP off)  
At 45% RPM - GTS and rotation indicators black  
  
**When RPM Stabilised**  
Fire Warnings - Out  
RMP - 52% approximate note reading  
TGT - Note  
OIL FPR TRANS warnings - Check out  
Throttle - Close bleed valve  
Hydraulics - Check control response and feel normal on HYD1  
Electrics - GEN AC1 AC2 AC3 warnings - Check out  
Voltmeter - 27-29 volts  
CWP - All unlit except SKID  
  
**After Start Checks**  
Trims - Check tail plane, rudder and aileron in both directions  
Tailplane external position - Confirm alignment, set elevator trim to +3deg  
Flaps - Check operation, select Mid  
All warning flags clear and erect  
Synchronize compass  
Pitot heat - set to On  
Standby compass - Check  
DGI - Set  
Altimeters - Set and test  
IFF - Set and test  
ILS - Set as required  
XMT - Set and test  
ADR - Black  
Tacan - Set as required and test  
Oxygen - Check contents, set valve to On, OXY light out  
Canopy - Closed and locked  
Hydraulics - Check pressures within limits  
Controls - Full free correct movement  
Anti-skid - Set to On, check SKID light out