

P180 LANDING GEAR TROUBLESHOOTING

With the LDG CTRL LEVER in "DOWN" position, an uncommanded LDG retraction is possible if:		OTHER EFFECTS	REQUIRED CHECK
1	Switch S74 (LDG CTRL) failed with contacts jammed to UP pos, and relay K30 failed with contacts sealed between pins "A2" and "A3" (ref. WM 32-30-00) DOUBLE FAILURE	It is impossible to extent the LDG (unless K74 failure occurred after the last extension manoeuvre). Only 1000 psi hydraulic pressure available.	1) With airplane on wheels, refer to WM 32-30-00, disconnect P161 and verify continuity between pins M,N (NLG side); then disconnect P173 and verify continuity between pins D,F (LHMLG side). 2) Refer to WM 32-30-00: Disconnect DCV ; Position the LDG CTRL lever to DN; With a multimeter, check for presence of +28VDC at pin "Y" of connector P105 (in normal condition, open circuit should be found)
2	Switch S74 failed with contacts jammed to UP pos and both WOW switches (NLG: S93 ; RHMLG: S85) failed with contacts sealed between pin 4-5 and pins 7-9, or both WOW misrigged TRIPLE FAILURE	Steering system cannot be engaged. Only 1000 psi hydraulic pressure available.	The same as above, but in this case the WOW malfunction will cause loss of continuity between pins M,N (P161 connector) and also between pins D,F (P173 connector)
3	Short cut of another wire with the wire G16B22 (from pin "A3" of relay K30, trough the pin "Y" of P105, up to pin "F" of J31 on 6000 BKHD. Short cut with the wire G16C22 from pin "F" of P31 to DCV	It is impossible to extent the LDG (unless the short circuit occurred after the last extension manoeuvre).	With airplane on wheels, Refer to WM 32-30-00 and disconnect DCV. With LDG CTRL (S74) to DOWN pos, check if +28VDC is present at pin "F" of J31 (disconnecting P31) or +28VDC is present at pin "F" of P31; in normal condition, open circuit should be found.
4	DCV blocked to UP position	It is impossible to extend the LDG (unless failure occurred after the last extension manoeuvre).	With airplane on jacks, perform 50 manoeuvres UP/DN

References: Wiring Manual sect. 32-30-00, 32-60-00; Airplane Maintenance Manual sect. 29-10-00, 31-10-00, 32-30-00, 32-60-00; AFM/POH par. 4.2.1