

## B747 Flap System

### Primary Mode:

Normal

Hydraulic – Trailing Edge  
Pneumatic – Leading Edge

All FCU's

Handle

Asymmetry Protection  
Load Relief

Single Tape Indicator

1 – Inboard / Mid Span LED's  
5- Outboard LED's and TED  
>5 – TE Only

Time: N/A  
Max: 30 Degrees  
Reverse: FOD protection

### Secondary Mode:

Source Problem

Electrical (Effected Flap)  
Electrical – Leading Edge

All FCU's

Handle

Asymmetry Protection  
No Load Relief

Expanded Tape Indicator

1 – Inboard / Mid Span LED's  
5- Outboard LED's and TED  
>5 – TE Only

Time: 6-7 Minutes  
Max: 30 Degrees  
Reverse: No FOD Protection

### Alternate Mode:

FCU Problem

Electrical (All Flaps)

No FCU's

Handle inoperative

No Asymmetry Protection  
No Load Relief

Expanded / Indic Marks

All Drive Out

Time: 6-7 minutes  
Max: 25 Degrees  
No FOD Protection

**Flaps Control** --- FCU's Inoperative (Use Alternate Mode)

**Flaps Drive** --- Asymmetry Problem (No Alternate) / remaining flaps work normally

**Flaps Primary** --- One or more flap groups operating in Secondary Mode.