AD/ELECT/48 Mechanical Products Inc - Circuit Breakers 9/89 Amdt 3

Applicability: 1. Mechanical Products Inc. circuit breakers as follows:

Series Part No	Military Designator	Rating - Amps	Manufacturers Date Code
4001	MS22073	1 thru 5	8501 thru 8636
4200	MS26574	0.5 thru 5	8430 thru 8636
4310-0001 and 4310-019	MS3320	1 thru 5	8605 thru 8636
8500	Nil	1 thru 5	8514 thru 8636

2. Mechanical Products Inc. circuit breakers commercialised by E.C.E. Co. as follows:

Mechanical Products Series P/N	Equivalent ECE Reference No	Rating - Amps	Manufacturers Date Code
4001-001-( )	120DU01###	1 thru 5	8501 thru 8636
4001-004-( )	124DU01###	1 thru 5	8501 thru 8636
4001-007-( )	125DU01###	1 thru 5	8501 thru 8636
4310-001-( )	170/171DU01###	1 thru 5	8605 thru 8636

Note 1. ( ) may be any digit in the range 1 thru 5. # may be any three digits in the range 010 thru 050.

Note 2. The first two digits of the date code are the year of manufacture and the second two digits are the week in that year.

Note 3. All the above circuit breakers may be identified by their blue or black base colour. Mechanical Products circuit breakers commercialised by ECE have an ECE reference number on the body of the circuit breaker.

Note 4. This Directive does not apply to circuit breakers produced or installed prior to 23 July 1984, (the thirtieth week of 1984), or to circuit breakers which have been inspected by the manufacturer, found free of defect, marked with a white inverted Z or a T painted on the terminal end, and have an additional date code with an "R" prefix.

As an example the unit may have the additional date code of R8642, where "R" designates a retest by Mechanical Products.

Note 5. Aircraft which may be fitted with circuit breakers commercialised by E.C.E. Co. include but are not limited to Aerospatiale SA 330 helicopters.

Note 6. FAA AD 87-06-09 and DGAC AD 87-073-IMP(AB)RI refer.

Requirement: Remove from service circuit breakers which fall within the area designated in the applicability statement. Some approved alternate Part No's are as follows:

Mechanical Products Inc	**Equivalent Part Numbers**	
Suspect Part Numbers	**Klixon**	**Mechanical Products Inc**
8500-005-1	7274-55-1	8500-002-1
8500-005-105	7274-55-1 1/2	8500-002-105
8500-005-2	7274-55-2	8500-002-2
8500-005-3	7274-55-3	8500-002-3
8500-005-5	7274-55-5	8500-002-5

Compliance: For Mechanical Products Inc circuit breakers; within 100 hours time in service after 31 May 1987.

For Mechanical Products Inc circuit breakers commercialised by E.C.E Co; within 100 hours time in service after 10 August 1989.

Background:

1. Mechanical Products Inc. have advised that a quantity of circuit breakers have been shipped which may be improperly manufactured. An internal contact carrier may rotate within these units which may create an electrical shock hazard or cause the circuit breaker to not fulfil its protection function.

2 Amendment 2 to this Directive is issued to include Mechanical Products Inc. circuit breakers commercialised by E.C.E. Co.

3. Amendment 3 to this AD is issued to:

   - clarify the applicable series of ECE commercialised circuit breakers;
   - provide additional information to aid in identifying ECE commercialised circuit breakers;
   - revise the compliance date for ECE commercialised circuit breakers; and
   - clarify which Mechanical Products circuit breakers in the 4310 series are affected.