



SERVICE BULLETIN NO: 2011-0004

DATE: October 3, 2011

## SERVICE BULLETIN

ATA: 27

TITLE: Rotary Variable Differential Transducer (RVDT)  
Kavlico Part number: GM9559  
Thales Part number: GT415-2950-1

APPLICATION: Global Express (BD-700 Aircraft)

SUBJECT: Replacement of RVDTs on BD-700 aircraft.

### 1. Planning Information:

#### A. Effectively

##### 1) Equipment Concern

RVDTs with Kavlico part number GM9559 and Thales part number GT415-2950-1.

##### 2) Applicability

Recall applies to RVDTs with serial number range (1570 through 1715) as shown in Table 1 below.

#### B. Concurrent Requirement

Not applicable

### C. Reason

The RVDT is recalled due to potential failure caused by the use of corrosive honing oil during manufacturing process.

### D. Description

The Kavlico RVDT is used as a rudder limiting position transducer that generates the electrical output proportional to the movement of the rotor shaft assembly. Each Bombardier Global Express aircraft contains two of these units for redundancy purpose.

The RVDT is recalled due to potential failure caused by the use of corrosive honing oil during manufacturing process for serial number range (1570 through 1715).

### E. Compliance

Application of this service bulletin is required for the serial number shown in Table 1.

### F. Approval

The failure analysis and technical content of this service bulletin has been approved by Thales.

### G. Manpower

It takes approximately 15 man-hours to assemble and test one RVDT.

### H. Weight

Not changed.

### I. Electrical Load Data

Not changed.

## 2. Material Information

### A. Material – Price and Availability

Cost of Service Bulletin application: Free of Charge.

The operators incorporating this Service Bulletin shall remove and return the units to Kavlico.

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### B. Industry Support Information

None.

### C. Material Necessary for Each Unit

RVDT will be replaced as a complete unit.

### D. Re-identified Parts

Not applicable.

### E. Tooling – Price and Availability

Not applicable.

### 3. Accomplishment Instructions

#### A. Change procedure

- 1) Receive RVDTs with serial number listed in Table 1
- 2) Scrap affected RVDTs
- 3) Receive purchase order with zero dollar for new RVDTs
- 4) Manufacture RVDTs using the current process and procedure
- 5) Ship RVDTs with new serial numbers

#### B. Testing

All RVDTS will be tested per Acceptance Test Procedure ATP9559. The results of the ATP9559 will be recorded on Test Data Sheet, TD9559. Each RVDT will be shipped with its Test results.

**TABLE 1. SERIAL NUMBERS TO BE REPLACED**

<b>Item</b>	<b>Serial Number</b>	<b>Item</b>	<b>Serial Number</b>	<b>Item</b>	<b>Serial Number</b>
1	1570	40	1611	79	1661
2	1571	41	1612	80	1662
3	1572	42	1613	81	1663
4	1574	43	1614	82	1671
5	1575	44	1615	83	1672
6	1576	45	1616	84	1673
7	1577	46	1617	85	1674
8	1578	47	1618	86	1675
9	1579	48	1619	87	1676
10	1580	49	1620	88	1677
11	1581	50	1621	89	1678
12	1582	51	1622	90	1679
13	1583	52	1623	91	1680
14	1584	53	1624	92	1681
15	1585	54	1625	93	1682
16	1586	55	1633	94	1683
17	1587	56	1634	95	1684
18	1588	57	1635	96	1685
19	1589	58	1636	97	1686
20	1590	59	1637	98	1687
21	1591	60	1638	99	1688
22	1592	61	1640	100	1689
23	1593	62	1641	101	1699
24	1594	63	1642	102	1700
25	1595	64	1643	103	1701
26	1596	65	1644	104	1702
27	1597	66	1645	105	1703
28	1598	67	1646	106	1704
29	1599	68	1648	107	1705
30	1600	69	1649	108	1706
31	1601	70	1650	109	1707
32	1603	71	1651	110	1709
33	1604	72	1652	111	1710
34	1605	73	1654	112	1711
35	1606	74	1655	113	1712
36	1607	75	1656	114	1714
37	1608	76	1657	115	1715
38	1609	77	1658		
39	1610	78	1659		