

# **BILL OF MATERIALS**

Subsystem: Schrader TRUCK  
 Component: Transmitter  
 Car Model/Year: Eaton (steel gen1B)

Internal Part No: 70803003  
 Customer Part No: 70803003  
 Drawing No: 90810075

Date Issued: 26/03/99  
 ECN Reference:  
 Revision: B

| Item | Part No. | Qty Per | Location      | Identification No.      | Chg. No. | Part Name         | Manu. Crit. |
|------|----------|---------|---------------|-------------------------|----------|-------------------|-------------|
| 1    | 30506004 | 1       | C3            | 0805,+/-10%,X7R         | A        | CAP 100nF         |             |
| 2    | 30508001 | 1       | C8            | 0805,+80%,-20%,Y5V      | A        | CAP 1uF           |             |
| 3    | 30510005 | 2       | C6,7          | C, +/-20%,10V,TANT      | A        | CAP 100uF         |             |
| 4    | 30591002 | 2       | C12,C16       | 0603,+/-0.25pF,COG      | A        | CAP 1.0pF         |             |
| 5    | 30591004 | 1       | C10           | 0603,+/-0.25pF,COG      | A        | CAP 3.9pF         |             |
| 6    | 30591007 | 1       | C15           | 0603,+/-0.25pF,COG      | A        | CAP 1.8pF         |             |
| 7    | 30595001 | 1       | C2            | 0603,+/-5%,COG          | A        | CAP 100pF         |             |
| 8    | 30595004 | 1       | C17           | 0603,+/-5%,COG          | A        | CAP 12pF          |             |
| 9    | 30595006 | 1       | C19           | 0603,+/-5%,COG          | A        | CAP 150pF         |             |
| 10   | 30595009 | 1       | C11           | 0603,+/-5%,COG          | A        | CAP 22pF          |             |
| 11   | 30595013 | 1       | C20           | 0603,+/-5%,COG          | A        | CAP 68pF          |             |
| 12   | 30596001 | 2       | C4,5          | 0603,+/-10%,X7R         | A        | CAP 4.7nF         |             |
| 13   | 30596003 | 4       | C13,14,18,21  | 0603,+/-10%,X7R         | A        | CAP 1.0nF         |             |
| 14   | 30586001 | 1       | R3            | 0603,+/-1%,0.1W         | A        | RES 11K           |             |
| 15   | 30588001 | 1       | R7            | 0603,+/-5%,0.1W         | A        | RES 680R          |             |
| 16   | 30588002 | 5       | R5,6,10,12,15 | 0603,+/-5%,0.1W         | A        | RES 4.7K          |             |
| 17   | 30588003 | 4       | R4,18,19,22   | 0603,+/-5%,0.1W         | A        | RES 10K           |             |
| 18   | 30588004 | 1       | R2            | 0603,+/-5%,0.1W         | A        | RES 12K           |             |
| 19   | 30588005 | 1       | R16           | 0603,+/-5%,0.1W         | A        | RES 0R            |             |
| 20   | 30588007 | 1       | R14           | 0603,+/-5%,0.1W         | A        | RES 6.8K          |             |
| 21   | 30588008 | 1       | R11           | 0603,+/-5%,0.1W         | A        | RES 27R           |             |
| 22   | 30588040 | 1       | R17           | 0603,+/-5%,0.1W         | A        | RES 47R           |             |
| 23   | 30588041 | 1       | R13           | 0603,+/-5%,0.1W         | A        | RES 1.2K          |             |
| 24   | 30531002 | 1       | ASIC          | SSSM115                 | A        | ASIC SOIC 28      |             |
| 25   | 30534003 | 1       | XTAL          | MS1V-TK, +/- 100ppm     | A        | XTAL, 32.768kHz   |             |
| 26   | 30551003 | 1       | D1            | BAS16                   | A        | Diode, SOT23      |             |
| 27   | 30552001 | 1       | Q3            | BCW31                   | A        | Trans, NPN, SOT23 |             |
| 28   | 30553002 | 1       | Q4            | BSR15                   | A        | Trans, PNP, SOT23 |             |
| 29   | 30555002 | 2       | Q1,2          | BFR35APE6327            | A        | RF Tran. SOT 23   |             |
| 30   | 30571002 | 1       |               | BR2477A                 | A        | BATTERY           | PANASONIC   |
| 31   | 30577002 | 1       | L1            | 0805,+/-10%             | A        | IND. 27nH         | COILCRAFT   |
| 32   | 30577005 | 1       | L3            | 0805,+/-10%             | A        | IND. 39nH         | COILCRAFT   |
| 33   | 30577017 | 1       | L2            | 0805,+/-10%             | A        | IND. 180nH        | COILCRAFT   |
| 34   | 30577020 | 1       | L4            | INA22722, +/-5%         | A        | IND. 7.2mH        | PREDAN      |
| 35   | 30580010 | 1       | SW1           | BALLSPRING              | A        | Roll Switch       |             |
| 36   | 30881001 | 1       |               | Eaton v8                | A        | PCB               |             |
| 37   | 30582002 | 1       | SENSOR        | NPP-301A-700A (100 PSI) | C        | Pres. Sen. SO8    |             |
| 38   | 30584001 | 1       |               | RO2073A                 | A        | Res. 315.00 MHz   | RFM         |
| 39   | 10542001 | 1       |               | 90501001                | C        | Sensor Seal       |             |
| 40   | 10561001 | 1       |               | Par 96002               | I        | Adhesive Pad      |             |
| 41   | 20525001 | 1       | TI            | 90502003                | D        | Stem Tag          |             |
| 42   | 20562001 | 2       |               | M2.0 * 4 BT3PBBC        | A        | PCB/Tag Screw     |             |
| 43   | 20565008 | 12mL    |               | ER1448 (Mixed System)   |          | Pot. Compound     |             |
| 44   | 20846001 | 1       |               | 90802003                | A        | Barcode Label     |             |

**EXHIBIT** 4

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 Drawing No: 90810075

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|------|----------|---------|----------|--------------------|----------|----------------------|-------------|
| 45   |          | 1       |          | 90810046           | B        | FCC Label            |             |
| 46   | 20859001 | 1       |          | 90802001           | C        | Insert               |             |
| 47   | 40801004 | 1       |          | 90804001           | D        | Enclosue S.A.        |             |
| 48   | 20546008 |         |          | 90502011           | B        | Shipping Label       |             |
| 49   | 20547001 | 1       |          | AXR7+(RIBBON)      | A        | Thermal Trans Ink    |             |
| 50   | 20549001 | 2.5ml   |          | Safe Wash 2000J    | A        | Safe Wash            |             |
| 51   | 30543006 | 0.185g  |          | SN62 RP11AG S89.5  | A        | Solder Cream         |             |
| 52   | 30543007 | 0.16g   |          | 60 EN ECO SOL 105  | A        | No clean solder wire |             |
| 53   | 30543008 | 0.135g  |          | ECO SOL 105        | A        | No clean solder wire |             |
| 54   | 80517001 |         |          | S116/2             | A        | Shipping Box Base    |             |
| 55   | 80517002 |         |          | S116/1             | A        | Shipping Box Lid     |             |
| 56   | 80517003 |         |          | S116/4             | A        | 4 Way Divider        |             |
| 57   | 80517004 |         |          | S116/3             | A        | 11 Way Divider       |             |

**NOTE -** For capacitors, unless otherwise stated,  
 voltages in the range 16V - 100V are acceptable.

For resistors, capacitors and inductors tolerances tighter than specified are acceptable.

**P.C.B. ASSEMBLY DRAWING:**

Drawing Number: 90810074  
 Drawing Change Level: A  
 Board Reference: Eaton v8

**CIRCUIT SCHEMATIC:**

Drawing Number: 90810034  
 Drawing Change Level: B

**PRODUCTION TEST SPEC.:**

Specification Number: T.B.D.  
 Spec. Change Level: T.B.D.

**ELECTRICAL ASSEMBLY:**

Drawing Number: 90810073  
 Drawing Change Level: A

ISSUED: Sam Strahan

APPROVED: [Signature]

**EXHIBIT** H

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