

## Case Study—Decomposer

Customer: Lawler Manufacturing, Inc., Indianapolis, IN

### Technology Profile

- ◆ MS Windows 2003 Server
- ◆ MS SQL Server 2000
- ◆ VB6
- ◆ OLE
- ◆ Made 2 Manage

### Executive Summary

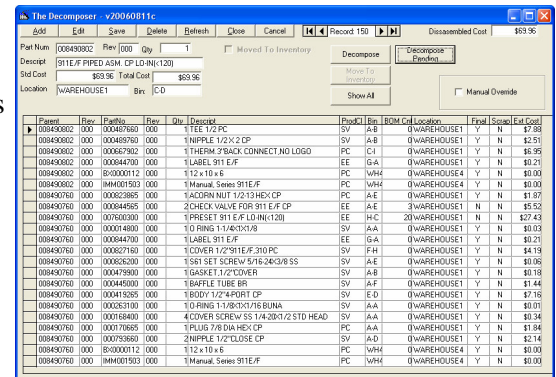
Computer Renditions created a user tool that will take a part with a deep bill-of-materials, break it down into its component parts and then create transactions in Made 2 Manage ERP software that will put the component parts back into inventory.

### Problem

Accounting was spending an inordinate amount of time breaking down parts that came back into inventory through RMAs. Some of the sub-assemblies were to be kept and some of the components were not re-useable and had to be scrapped. Once the part list was determined, the accounting staff had to enter transactions into Made 2 Manage for each part to either move it into inventory or out to scrap. This was very tedious work and prone to error.

### Project Goals

1. Reduce and/or eliminate data entry errors
2. Reduce the amount of time spent processing an RMA
3. Salvage sub-assemblies
4. Mark parts for scrap
5. Provide audit trail of parts run through Decomposition process



Part Num	Qty	Descrpt	Part Num	Qty	Descrpt	Part Num	Qty	Descrpt
00849002	000	1 TEL 1/2 PC	00048760	000	1 NIPPLE 1/2 X 2 CP	00048760	000	1 NIPPLE 1/2 X 2 CP
00849002	000	1 THERM 7/8" BACK CONNECT NO LOGG	00048760	000	1 THERM 7/8" BACK CONNECT NO LOGG	00048760	000	1 THERM 7/8" BACK CONNECT NO LOGG
00849002	000	1 LABEL 911 E/F	00044700	000	1 LABEL 911 E/F	00044700	000	1 LABEL 911 E/F
00849002	000	1 Manual, Series 911E/F	8-0000112	000	1 Manual, Series 911E/F	8-0000112	000	1 Manual, Series 911E/F
008490760	000	1 GASKET 1 1/2" HEX CP	00082865	000	1 GASKET 1 1/2" HEX CP	00082865	000	1 GASKET 1 1/2" HEX CP
008490760	000	2 CHECK VALVE FOR 911 E/F CP	000844565	000	2 CHECK VALVE FOR 911 E/F CP	000844565	000	2 CHECK VALVE FOR 911 E/F CP
008490760	000	1 PRESET 911 E/F LD-IN:120	000760300	000	1 PRESET 911 E/F LD-IN:120	000760300	000	1 PRESET 911 E/F LD-IN:120
008490760	000	1 LABEL 911 E/F	000844700	000	1 LABEL 911 E/F	000844700	000	1 LABEL 911 E/F
008490760	000	1 COVER 1/2" 911E/F 310 PC	000827160	000	1 COVER 1/2" 911E/F 310 PC	000827160	000	1 COVER 1/2" 911E/F 310 PC
008490760	000	1 O RING 1 1/4" X 1 1/8"	000828200	000	1 O RING 1 1/4" X 1 1/8"	000828200	000	1 O RING 1 1/4" X 1 1/8"
008490760	000	1 GASKET 1 1/2" COVER	000479800	000	1 GASKET 1 1/2" COVER	000479800	000	1 GASKET 1 1/2" COVER
008490760	000	1 BAFFLE TUBE BR	000440000	000	1 BAFFLE TUBE BR	000440000	000	1 BAFFLE TUBE BR
008490760	000	1 BODY 1/2" 4 PORT CP	000418205	000	1 BODY 1/2" 4 PORT CP	000418205	000	1 BODY 1/2" 4 PORT CP
008490760	000	1 O RING 1 1/8" X 1 1/8" RUNA	000828100	000	1 O RING 1 1/8" X 1 1/8" RUNA	000828100	000	1 O RING 1 1/8" X 1 1/8" RUNA
008490760	000	4 COVER SCREW SS 1/4 20X1/2 STD HEAD	000168400	000	4 COVER SCREW SS 1/4 20X1/2 STD HEAD	000168400	000	4 COVER SCREW SS 1/4 20X1/2 STD HEAD
008490760	000	1 PLUG 7/8 DIA HEX CP	000176605	000	1 PLUG 7/8 DIA HEX CP	000176605	000	1 PLUG 7/8 DIA HEX CP
008490760	000	2 NIPPLE 1/2" COVER CP	000759600	000	2 NIPPLE 1/2" COVER CP	000759600	000	2 NIPPLE 1/2" COVER CP
008490760	000	1 1/2 x 10 x 6	8-0000112	000	1 1/2 x 10 x 6	8-0000112	000	1 1/2 x 10 x 6
008490760	000	1 Manual, Series 911E/F	8M4001503	000	1 Manual, Series 911E/F	8M4001503	000	1 Manual, Series 911E/F

### Implementation Description

Computer

Computer Renditions, Inc.

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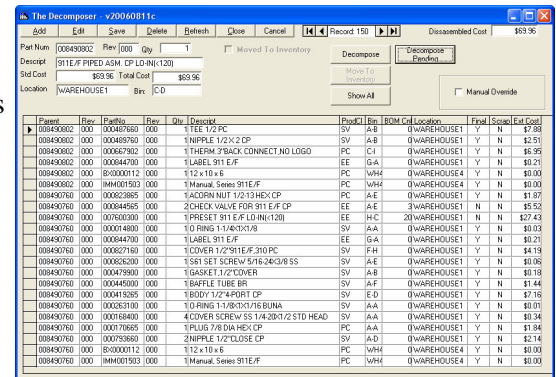
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Parent	Qty	Path	Qty	Descrpt	Prod	Bin	BM	Loc	Unit	Ext Cost
008493002	000	000497600	000	1 TEL 1/2 PC	SV	AA	0	WAREHOUSE1	Y	17.98
008493002	000	000489760	000	1 NIPPLE 1/2 X 2 CP	SV	AB	0	WAREHOUSE1	Y	12.51
008493002	000	000679020	000	1 THERM 9 BACK CONNECT NO LOGG	PC	CT	0	WAREHOUSE1	Y	95.96
008493002	000	000447000	000	1 LABEL 911 E/F	EE	GA	0	WAREHOUSE1	Y	80.21
008493002	000	8-0000112	000	1 1/2 x 10 x 6	PC	WH4	0	WAREHOUSE4	Y	80.03
008493002	000	MM4001503	000	1 Manual, Sees 911E/F	PC	WH4	0	WAREHOUSE4	Y	80.03
008490760	000	000023865	000	1 ACPEN NUT 1/2-19 HEX CP	PC	AE	1	WAREHOUSE1	Y	81.87
008490760	000	000844565	000	2 CHECK VALVE FOR 911 E/F CP	EE	AE	3	WAREHOUSE1	N	45.52
008490760	000	007602000	000	1 PRESET 911 E/F LD IN<120	EE	HC	20	WAREHOUSE1	N	127.43
008490760	000	000148000	000	1 O RING 1.14X0.718	SV	AA	0	WAREHOUSE1	Y	80.03
008490760	000	000844700	000	1 LABEL 911 E/F	EE	GA	0	WAREHOUSE1	Y	80.21
008490760	000	000827160	000	1 COVER 1/2" 911E/F 310 PC	SV	FH	0	WAREHOUSE1	Y	44.13
008490760	000	000026200	000	1 SET SCREW 5/16 24X1/8 SS	SV	AE	0	WAREHOUSE1	Y	80.06
008490760	000	000479800	000	1 GASKET 1/2" COVER	SV	AB	0	WAREHOUSE1	Y	80.18
008490760	000	000440000	000	1 BAFFLE TUBE BR	SV	AF	0	WAREHOUSE1	Y	81.44
008490760	000	000418205	000	1 BODY 1/2" 4 PORT	SV	ED	0	WAREHOUSE1	Y	87.16
008490760	000	000053100	000	1 O RING 1.18X0.718 Buna	SV	AA	0	WAREHOUSE1	Y	80.01
008490760	000	000168400	000	4 COVER SCREW SS 1/4 20X1/2 STD HEAD	SV	AA	0	WAREHOUSE1	Y	83.34
008490760	000	000178685	000	1 PLUG 7/8 DIA HEX CP	PC	AA	0	WAREHOUSE1	Y	81.94
008490760	000	000759600	000	2 NIPPLE 1/2" CLOSE CP	SV	AB	0	WAREHOUSE1	Y	82.14
008490760	000	8-0000112	000	1 1/2 x 10 x 6	PC	WH4	0	WAREHOUSE4	Y	80.03
008490760	000	MM4001503	000	1 Manual, Sees 911E/F	PC	WH4	0	WAREHOUSE4	Y	80.03

### Implementation Description

Because Lawler wanted to maintain the integrity of their accounting information while at the same time not making any customizations to the Made 2 Manage application itself, Computer Renditions chose to implement tool using OLE to drive the actual Made 2 Manage screens. This allowed all of the data edits present in the system to be applied to the transactions as they went into the database. The assemblies were broken down according to the bill-of-materials stored in Made 2 Manage and placed in their corresponding default bin locations. Once the disposition of each of the parts/assemblies was determined, Decomposer acted like a robot and pumped the data over to Made 2 Manage and on into the database.

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