

2012

# ProTrac Kit and Assembly Process

Producing new products on the fly or as  
part of a Pre-Assembly Process

ProTrac has a complete Kiting process for creating a Kit on the fly or the distributor can use the Pre-Assembly process.

That process includes reports to let you know if you have enough products to complete the number of Pre-Assembled Kits that you need to build.

When you use the Pre-Assembly process you are able to remove the products in that process from the Available for sale field and move them to an Assembly area.

This ensures that your inventory of saleable inventory is maintained at a proper level

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2/1/2012



ProTrac - A LARGER ASSEMBLY PROCESS

This Bill of Material can be created from an order for a Kit. It also can be pre-assembled and put on the shelf at the correct price and Gross Profit Margin.

If you are going to assemble this product, ProTrac will pull inventory from Available and place it in the Assembly process.

The process starts with setting up an Assembly Bill Of Materials for a Kit or finished good.

Once the BOM has been set up a new kit or finished good can be requested. On this graphic I have only told ProTrac what I want to build one of these units.

In the Inventory record for each of the units that make up this assembly, there is a field to tell you that a number of this product is not available for sale, because it is in the **Assembly Process**

This ensures that your inventory is correct at all times. At this time the Assembly is in the **Planned Stage**. The inventory has not been moved from Available to the Assembly process.

**Note:** ProTrac carries the planned cost of this unit. If the units that were used for this assembly is different than planned an adjustment may be made before putting the finished good into inventory for sale.

\*\*\* ProTrac TEST TEST TES TST 07/19/06 - 11:58  
 ProTrac(R) 8.19.02 r-bom01  
 mel

**BILL OF MATERIAL FOR A GRACO PAINT UNIT WITH 17 PARTS**

Bill-of-Materials Report PAGE: 1

From P/L: GRA  
 To P/L: GRA

Assembled Item: GRA G-232433 GRACO SPRAY UNIT

P/L Item Number	Description	Per Assembly	Planned Usage
GRA G-100002	SCREW, SET 1/4 - 20 X1/4" (6mm	2	2.00
GRA G-110874	WASHER, FLAT	2	2.00
GRA G-100040	PLUG, PIE 3/8" NPT	1	1.00
GRA G-188981	PLUG, AGITATOR	1	1.00
GRA G-181073	STRAINER, FLUID INPUT	1	1.00
GRA G-223596	PUMP 2:1 MONARK;CST	1	1.00
GRA G-239060	FLUID FILTER	1	1.00
GRA G-113777	TEE 3/8 NPT (F) RUN X 3/8"	1	1.00
GRA G-113769	VALVE RELIEF 125 PSI	1	1.00
GRA G-114129	CONNECTOR TUB FITTING	1	1.00
GRA G-TUBE	TUBE POLY 1/2 (13MM) OD	1	1.00
GRA G-238909	PUMP GROUND WIRE AND	1	1.00
GRA G-101108	PAIL, 5 GALLON (19 LITER)	1	1.00
GRA G-114371	KNOB SCREW 1/4 - 20	3	3.00
GRA G-240231	AIR REGULATOR KIT	1	1.00
GRA G-115439	SCREW, SOCKE MS X 0.8	4	1.00
GRA G-105332	NUT, HEX SELF LOCKING	1	1.00

**TST-Assembly Order**

Assembly Order: TST ProTrac(R) 8.19.02 MDC ao0009

Assembly Order#: 96 Entered By: MDC Entered Date: 07/19/2006  
 Assembly: GRA G-232433 Planned Qty: 1 Status: P  
 Description: GRACO SPRAY UNIT  
 Special Instruction: THOMPSON NEEDS THIS UNIT ASAP  
 Required: 07/20/2006 Released: Completed:  
 Planned Cost: 1,680.57 Scheduled Cost: 0.00 Actual Cost: 0.00

**Assembly BOM**

P/L	Item Number	T	Usage	Planned	Released	B/O	Used	Assembly Cost
GRA	G-100002		2.00	2	0	0	0	1.2000
GRA	G-110874		2.00	2	0	0	0	1.8900
GRA	G-100040		1.00	1	0	0	0	1.7200
GRA	G-188981		1.00	1	0	0	0	10.4700
GRA	G-181073		1.00	1	0	0	0	8.7000
GRA	G-223596		1.00	1	0	0	0	1,326.0000
GRA	G-239060		1.00	1	0	0	0	85.8000
GRA	G-113777		1.00	1	0	0	0	8.1900
GRA	G-113769		1.00	1	0	0	0	11.5700

Line#: 1 Of 17  
 Description: SCREW, SET 1/4 - 20 X1/4" (6mm)

Next Prev Browse Create Release Finish Void Add Delete Print Exit

ESC=Exit J=Jump to Line#

Enter special instructions for this Assembly Order.

ProTrac - A LARGER ASSEMBLY PROCESS

Prior to releasing the Assembly Order to be built, you would run the **Assembly Order Quantity Check Report**.

ProTrac tells you how many can be built with existing inventory.

There is also an **Assembly Order Back Order Process** that lets you run an Assembly Order to find out how many you can make with existing inventory. You can back order for the assembly.

When those units arrive at the back dock, ProTrac will include the Assembly Order along with any owed to a customer, as it distributes the available inventory.

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+++ ProTrac TEST TEST TES          TST          07/19/06 - 12:33
ProTrac(R) 8.19.02                ao0003
mel

Assembly Order Quantity Check          PAGE:          1

Check Available Quantities for:      Before releasing this new assembly, run an Assembly Qty check to see
Assembly Order Number                how many of these units that I can build with existing products. The Knob
Order No: 96                          screw shows that there are only 2 of these units, so that is all that I can

P/L Item Number          Description          Max
                           Quantity
-----
GRA G-232433             Not Available          2

P/L Item Number          Description          Planned Usage  Quantity  Max
                           Available  Quantity
-----
GRA G-100002             SCREW, SET 1/4 - 20 X1/4" (6mm)  2.00          8          4
GRA G-110874             WASHER, FLAT          2.00          8          4
GRA G-100040             PLUG, PIE 3/8" NPT    1.00          9          9
GRA G-188981             PLUG, AGITATOR        1.00          9          9
GRA G-181073             STRAINER, FLUID INPUT  1.00          9          9
GRA G-223596             PUMP 2:1 MONARK;CST   1.00          9          9
GRA G-239060             FLUID FILTER          1.00          9          9
GRA G-113777             TEE 3/8 NPT (F) RUN X 3/8"  1.00          9          9
GRA G-113769             VALVE RELIEF 125 PSI   1.00          8          8
GRA G-114129             CONNECTOR TUB FITTING  1.00          9          9
GRA G-114129             TUBE POLY 1/2 (13MM) OD  1.00          9          9
GRA G-238909             PUMP GROUND WIRE AND   1.00          9          9
GRA G-101108             PAIL, 5 GALLON (19 LITER)  1.00          8          8
GRA G-114371             KNOB SCREW 1/4 - 20   3.00          7          2
GRA G-240231             AIR REGULATOR KIT     1.00          9          9
GRA G-115439             SCREW, SOCKE M5 X 0.8  1.00          6          6
GRA G-105332             NUT, HEX SELF LOCKING  1.00          6          6
    
```

These two screens show you the Assembly Order and the Inventory Record of the one of the items in the Assembly.

Note: With ProTrac you can have a Kit set up to be done on the fly and or set up in an assembly process.

The Assembly has been released to be built, this an example of the screen.

Assembly BOM										
P/L	Item Number	T	Usage	Planned	Released	B/O	Used	Assembly Cost	/	▲
GRA	G-100002		2.00	2	2	0	0	1.2000		
GRA	G-110874		2.00	2	2	0	0	1.8900		
GRA	G-100040		1.00	1	1	0	0	1.7200		

The GRA G-100002 now shows 8 On Hand, 6 Avail, 2 in the assembly process

TST-Inventory Pg1				
Inventory Pg1	TST	ProTrac(R) 8.19.02	MDC	ivm0001
P/L-Item#: GRA G-100002		Resv AO: 2	QAVL: 6	QOH: 8
Desc: SCREW, SET 1/4 - 20 X1/4" (6mm)		AO BO: 0	Resv: 0	OnOrd: 0
		OnOrd AO: 0	CBO: 0	VBO: 0
UPC:		CoreQty: 0	DefQty: 0	

This is a Working PICK TICKET for the ASSEMBLY ORDER 96

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+++ ProTrac TEST TEST TES          Assembly Order:          96
LEES SUMMIT, MO                    Entered Date:           07/19/2006
                                     Released Date:          07/19/2006
                                     Print Date:             07/19/2006
                                     Required Date:          07/20/2006
                                     Page:                   1

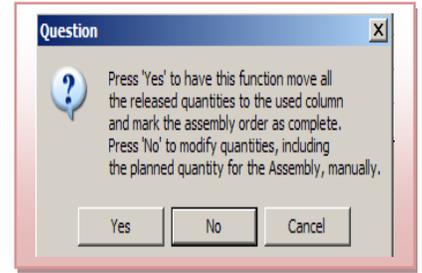
PARTIAL PAGE OF A FULL PAGE REPORT

Assembly:  GRA G-232433
Description: GRACO SPRAY UNIT
Planned Qty: 1
Spec Inst: THOMPSONS NEEDS THIS ASAP

P/L Item Number          Description          Bin Loc          On Hand  Planned Usage  Qty Planned  Qty Released  Qty Used
-----
GRA G-100002             SCREW, SET 1/4 - 20 X1/4" (6mm)  8          2.00          2          2          2
GRA G-110874             WASHER, FLAT          8          2.00          2          2          2
GRA G-100040             PLUG, PIE 3/8" NPT    9          1.00          1          1          1
    
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## ProTrac - A LARGER ASSEMBLY PROCESS

At the conclusion of the Assembly Process the Pick ticket is returned with the actual number of products and or labor used on this finished good. When you tell ProTrac that you want to finish the Assembly and update the inventory ProTrac presents this drop down to ensure that you are ready to put the finished good into inventory for sale.



**The GRA G-232433 has been completed.** The assembly order is complete. If there had been any changes in the number of items used or hours worked, those changes could be made at this time.

When we started the Assembly there was one on hand and now there are two on hand. The inventory and its cost have been moved to the Spray Unit.

Through out the process, ProTrac has kept track of both the item and its cost. ProTrac has moved the inventory and the cost to their rightful owner and is ready to go on to the next Process.

**TST-Assembly Order**

Assembly Order TST ProTrac(R) 8.19.02 MDC ao0009

Assembly Order#: 96 Entered By: MDC Entered Date: 07/19/2006  
 Assembly: GRA G-232433 Finished Qty: 1 Status: F  
 Description: GRACO SPRAY UNIT  
 Special Instruction: THOMPSON NEEDS THIS UNIT ASAP  
 Required: 07/20/2006 Released: 07/19/2006 Completed: 07/19/2006  
 Planned Cost: 1,680.57 Scheduled Cost: 1,680.57 Actual Cost: 1,680.57

A=Add  
P=Planned  
R=Release  
B=Backord  
F=Finished  
V=Voided

Assembly BOM									
P/L	Item Number	T	Usage	Planned	Released	B/O	Used	Assembly Cost	/
GRA	G-100002		2.00	2	2	0	2	1.2000	
GRA	G-110874		2.00	2	2	0	2	1.8900	
GRA	G-100040		1.00	1	1	0	1	1.7200	
GRA	G-188981		1.00	1	1	0	1	10.4700	
GRA	G-181073		1.00	1	1	0	1	8.7000	
GRA	G-223596		1.00	1	1	0	1	1,326.0000	
GRA	G-239060		1.00	1	1	0	1	85.8000	
GRA	G-113777		1.00	1	1	0	1	8.1900	
GRA	G-113769		1.00	1	1	0	1	11.5700	

Line#: 6 Of 17  
Description: PUMP 2:1 MONARK;CST

**Outside Work on Assembly**  
 This same process can be used to send a unit out for additional work. Set up an Assembly for the Product being sent out. The product is relieved from Availability and you know where and when the unit was sent out for the upgrade.

**Flexibility is required to sell spray painting equipment.**  
 An Assembled unit can be disassembled and all of the parts put back on the shelf.  
 We can also help if you disassemble a new unit and put it on the shelf as pieces/parts.

**ProTrac is designed for the small to mid-sized distributor who needs the Processing Power without the cost of the large software houses who have designed their products for very large distributors.**

The Assembly has been released to be built this an example of the screen.

Assembly BOM									
P/L	Item Number	T	Usage	Planned	Released	B/O	Used	Assembly Cost	/
GRA	G-100002		2.00	2	2	0	0	1.2000	
GRA	G-110874		2.00	2	2	0	0	1.8900	
GRA	G-100040		1.00	1	1	0	0	1.7200	

The GRA G-100002 now shows 8 On Hand, 6 Avail, 2 in the assembly process

**TST-Inventory Pg1**

Inventory Pg1 TST ProTrac(R) 8.19.02 MDC ivm0001

P/L-Item#: GRA G-100002 Resv AO: 2 QAVL: 6 QOH: 8  
 Desc SCREW, SET 1/4 - 20 X1/4" (6mm) AO BO: 0 Resv: 0 OnOrd: 0  
 OnOrd AO: 0 CBO: 0 VBO: 0  
 UPC: CoreQty: 0 DefQty: 0

Once completed the Reserve for AO was moved to the finished good

**TST-Inventory Pg1**

Inventory Pg1 TST ProTrac(R) 8.19.02 MDC ivm0001

P/L-Item#: GRA G-100002 Resv AO: 0 QAVL: 6 QOH: 6  
 Desc SCREW, SET 1/4 - 20 X1/4" (6mm) AO BO: 0 Resv: 0 OnOrd: 0  
 OnOrd AO: 0 CBO: 0 VBO: 0  
 UPC: The Assembly unit is done and the G-100002 reflects 6 On hand and 6 Available for sale CoreQty: 0 DefQty: 0  
 Vend Itm#: OnHand Value @ Sys Cost: 7.20