

Test Lab Request Form Instructions

- The TLW request form can be found on the second worksheet (tabs at bottom of the screen) of this file.
- Please fill in all required fields as noted in red. Please fill in all other fields if applicable / possible. Instructions for each field will appear when you click on the field. The procedure field is an embedded MS Word object which will allow you to use formatting features not possible in Excel (i.e. paragraphs, bullets, numbering, etc).
- If possible, create your desired data table and/or graph formats in the additional worksheets of this file. This is preferred over extensive written procedures.
- Once the form is completed, save this file on your personal computer using the following format:
Last name (m/dd/yy)
- Email the file to Phillip Reesor and Jim Snedeker.

Test Lab Work Request Form

Engineer: VINCE NORTON

Project #: 241493

Date Submitted: 5/9/2007

Completion Date Justification: SCHEDULED COMPLETION DATE FOR PROJECT EET

Test Description: ASSIST IN CONDUCTING EET ON THE NEW MODEL 770 FIRE CONTROL WITH TRIGGER BLOCK SAFETY

- Test Procedure:
- PERFORM EET PER THE FOLLOWING INSTRUCTION:
- 1. 3 FIREARMS TO BE SUPPLIED IN FOLLOWING CALIBER
 - a. 243 WIN (YOUTH)
 - b. 30-06 SPRG
 - c. 300 WIN MAG
 - 2. MEASUREMENT OF COMPONENT PARTS
 - a. CRITICAL DIMENSION
 - 3. MEASUREMENTS OF ASSEMBLIES
 - a. SAFE ON/OFF FORCES
 - b. TRIGGER PULL FORCES (MIN & MAX SETTINGS)
 - c. TRIGGER MOTION (IN SAFE)
 - d. ENGAGEMENT
 - e. OVERTRAVEL
 - 4. FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK
 - 5. ACCURACY
 - a. 3 – FIVE SHOT GROUPS PER ON THE 243 AND 30-C
 - 6. FUNCTION AND ENDURANCE
 - a. ALL THREE GUNS TO 500 ROUND

Test Lab Work Request Form

TLW #: 2274

Requested Completion Date: 6/8/2007

PER THE FOLLOWING INSTRUCTION:

S TO BE SUPPLIED IN FOLLOWING CALIBERS:
WIN (YOUTH)
5 SPRG.
WIN MAG
MENT OF COMPONENT PARTS
ICAL DIMENSION
MENTS OF ASSEMBLIES
E ON/OFF FORCES
IGER PULL FORCES (MIN & MAX SETTINGS)
IGER MOTION (IN SAFE)
AGEMENT
RTRAVEL
CHECK OF FIRE CONTROL ASSEMBLED IN
ND STOCK
Y
IVE SHOT GROUPS PER ON THE 243 AND 30-06
AND ENDURANCE
THREE GUNS TO 500 ROUND

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Test Lab Work Request Form

- 5. MEASUREMENTS OF ASSEMBLIES
 - a. SAFE ON/OFF FORCES
 - b. TRIGGER PULL FORCES (MIN & MAX SETTINGS)
 - c. TRIGGER MOTION (IN SAFE)
 - d. ENGAGEMENT
 - e. OVERTRAVEL
- 4. FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK
- 5. ACCURACY
 - a. 3 - FIVE SHOT GROUPS PER ON THE 243 AND 30-C
- 6. FUNCTION AND ENDURANCE
 - a. ALL THREE GUNS TO 500 ROUND
- 7. INSPECT FIRE CONTROLS AT 100, 300 AND 500 ROUND LEVELS
- 8. COMPILE DATA AND SUPPLY TO ENGINEER FOR FINAL REPORT

ADDITIONAL TESTING

- 1. PREPARE THE 300 WIN MAG FOR THE DRY CYCLE MACHINE
- 2. DRY CYCLE TO 10,000 CYCLES
- 3. INSPECT AND MEASURE FIRE CONTROL AT 1000, 2000, AND 10,000 ROUND LEVELS
- 4. DISASSEMBLE AND INSPECT AT 10,000 ROUNDS

Test Lab Work Request Form

MENTS OF ASSEMBLIES
E ON/OFF FORCES
JGER PULL FORCES (MIN & MAX SETTINGS)
JGER MOTION (IN SAFE)
AGEMENT
RTRAVEL
CHECK OF FIRE CONTROL ASSEMBLED IN
ND STOCK
Y
IVE SHOT GROUPS PER ON THE 243 AND 30-06
AND ENDURANCE
THREE GUNS TO 500 ROUND
RE CONTROLS AT 100, 300 AND 500 ROUND

DATA AND SUPPLY TO ENGINEER FOR FINAL

TESTING

HE 300 WIN MAG FOR THE DRY CYCLE

E TO 10,000 CYCLES
ND MEASURE FIRE CONTROL AT 1000, 2000, 5000
ROUND LEVELS
BLE AND INSPECT AT 10,000 ROUNDS

REPORT

ADDITIONAL TESTING

1. PREPARE THE 300 WIN MAG FOR THE DRY CYCLE MACHINE

2. DRY CYCLE TO 10,000 CYCLES

3. INSPECT AND MEASURE FIRE CONTROL AT 1000, 2000, AND 10,000 ROUND LEVELS

4. DISASSEMBLE AND INSPECT AT 10,000 ROUNDS

N. BRAND

OR MIX IS

NOT

IMPORTANT.

GUNS

AVAILABLE

ON OR

BEFORE

5/29/07

DATA ONLY

Test Lab Work Request Form

Special Requirements:

Supplies Availability:

Results Required:

*****This section to be completed by Test Lab Manager*****

Assigned To:

Sims, Jenathan

Start Date:

Assigned Date:

6/4/2007

Completion Date:

Comments:

Test Lab Work Request Form

TESTING

THE 300 WIN MAG FOR THE DRY CYCLE

E TO 10,000 CYCLES
ND MEASURE FIRE CONTROL AT 1000, 2000, 5000
ROUND LEVELS
BLE AND INSPECT AT 10,000 ROUNDS

	Data Only
	Formal Report

Test Lab Work Request Form

Double click to edit.

Cont'd Procedure

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Request Form

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Cont'd Procedure

Shooter: M. Hammond
Date: 12Jun07

Note: Accuracy was shot off of bench at 100 yards

	Grp. 1	Grp. 2	Grp. 3
30.06	2.25	1.75	1.4
0.243	0.9	0.75	0.875

Note: Dry cycle was completed after endurance testing.
Caliber: .300 Win. Mag.

	0 Rds	1000	2000	5000	10000
Engagement	0.0312	0.0287	0.0284	0.0291	0.0297
Overtravel	0.0089	0.0193	0.0189	0.0206	0.0218
Trigger Movement on Safe	0.0033	0.0052	0.0057	0.006	0.0067
Trigger Pull	4.776	4.023	4.189	4.028	3.564

TLW#2274
Project#241493

Inspection Summary

Note: Trigger Block Safety Screw was secured with Loctite 242. 7lbs. Was applied to trigger to determine trigger movement on Safe.

0 Rds. Initial

	30.06	.243	.300 Win. Mag.
Engagement	0.028	0.0285	0.027
Overtravel	0.0153	0.0177	0.0188
Trigger Movement on Safe	0.0034	0.0038	0.0038
Trigger Pull w/Dvorak	4.875	4.885	4.598

0 Rds. Recheck after Loctite set up

	30.06	.243	.300 Win. Mag.
Engagement	0.029	0.0262	0.0274
Overtravel	0.013	0.0176	0.0176
Trigger Movement on Safe	0.005	0.0022	0.0026
Trigger Pull w/Dvorak	4.9	4.7	4.4
Safe OFF	3.6	3.72	3.5
	3.76	3.06	3.92
	3.96	3.58	3.92
Safe ON	6.26	6.34	7.4
	5.58	6.2	5.86
	5.92	5.82	6

100 Rds.

	30.06	.243	.300 Win. Mag.
Engagement	0.0294	Unable	0.0278
Overtravel	0.0138	to read.	0.0187
Trigger Movement on Safe	0.0063	engag.	0.0025
Trigger Pull w/Dvorak	4.417	has moved.	4.181

Changed
out FC

300 Rds.

	30.06	.243w/FC2	.300 Win. Mag.
Engagement	0.0319	0.0316	0.0282
Overtravel	0.0146	0.0126	0.0192
Trigger Movement on Safe	0.0061	0.0038	0.003
Trigger Pull w/Dvorak	3.831/4.4483	4.636	3.953/4.284

0Rds.	243 FC#2
	0.0284
	0.005
	0.001
	4.5
	3.92
	4.35
	3.96
	6.2
	6.46
	6.26

243w/FC2
0.0307
0.0078
0.0032
4.513

500 Rds.

	30.06	24.3w/FC2	300 Win Mag
Engagement	0.0327	0.029	0.0312
Overtravel	0.015	0.0191	0.0089
Trigger Movement on Safe	0.0093	0.0041	0.0033
Trigger Pull w/Dvorak	4.784	4.128	4.778

Round Count Before: 0	
Gun #:243	Date:6Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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98
99
100 81-100 Ok Cool Gun
INSPECT GUN

44
45
46
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Round Count Before: 0	
Gun #:243	Date:6Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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98
99
100 81-100 Ok Cool Gun
INSPECT GUN

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Round Count Before: 100	
Gun # 243	Date: 7 Jun 07
Ammo type: R243W1 Lot# C22RAI	Shooter: J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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100 81-100 OK Cool Gun

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Round Count Before: 200	
Gun #:243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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100 81-100 Ok Cool Gun
INSPECT GUN

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Round Count Before:	
Gun #:243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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99
100 81-100 OK Cool Gun

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Round Count Before: 400	
Gun #:243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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99
100 81-100 Ok Cool Gun
INSPECT GUN

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TLW 2274
Project 241493

EET Model 770 Fire Control
w/Trigger Block Safety

Gun:
Date:
Round Count Before: 0

Gun #30.06
Ammo type:R30065 Lot#B15BB1

Date:6Jun07
Shooter:J.Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93
44	94
45	95
46	96
47	97

ROUNDS AFTER_____

TLW 2274
Project 241493

EET Model 770 Fire Control
w/Trigger Block Safety

98
99
100 81-100 OK Cool Gun
INSPECT GUN

Gun:
Date:
Shooter:
49
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ROUNDS AFTER_____

Round Count Before: 100



Gun #30.06 Date:7Jun07
Ammo type:R30065 Lot#B15BBI Shooter:J.Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-80 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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99
100 81-100 OK Cool Gun

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Round Count Before: 200



Gun #30.06 Date:7Jun07
Ammo type:R30065 Lot#B15BBI Shooter:J.Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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100 81-100 OK Cool Gun
INSPECT GUN

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Round Count Before: 300

Gun #30.06 Date:7Jun07
Ammo type:R30065 Lot#B15BBI Shooter:J.Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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99
100 81-100 OK Cool Gun

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Round Count Before: 400



Gun #30.06 Date:7Jun07
Ammo type:R30065 Lot#B15BBI Shooter:J.Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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99
100 81-100 OK Cool Gun
INSPECT GUN

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Round Count Before: 0	
Gun #:300 Win. Mag.	Date:6Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J. Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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98
99
100 81-100 OK Cool Gun
INSPECT GUN

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Round Count Before: 100



Gun #:300 Win. Mag. Date:7Jun07
Ammo type:R300W2 Lot# B17PBI Shooter:J. Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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100 81-100 OK Cool Glun

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Round Count Before: 200	
Gun #:300 Win. Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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98
99
100 81-100 OK Cool Gun
INSPECT GUN

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Round Count Before: 300	
Gun #:300 Win. Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J. Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

94
95
96
97
98
99
100 81-100 OK Cool Gun

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47
48
49
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Round Count Before: 400



Gun #:300 Win. Mag. Date:7Jun07
Ammo type:R300W2 Lot# B17PBI Shooter:J. Sims

MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91
42	92
43	93

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100 81-100 OK Cool Gun
INSPECT GUN

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