

PRODUCT ADVISORY NOTICE

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Customers, Sales Representatives and Distributors

Date: January 30, 2015

Subject: Plating material change on rotary and push button switches

This Product Advisory Notice is to alert you that there is a coming material change to all Grayhill standard rotary and push button switches. Our records show your company has purchased one or more of the affected part numbers in the past. Please forward this notification to the appropriate person(s) in your organization.

Description of Change

Grayhill is changing the Tin/Zinc plating to Sulfamate Nickel plating on all standard rotary and push button switches.

Reason for Change

This change improves the control of process variation of the plating process by limiting the elements involved and improving the overall appearance of the products.

Effective Date

The material change will be implemented before March 31, 2015

Part Numbers Affected

For a complete list of part numbers, please see the attached sheets. An electronic copy of this list in MS Excel or CSV format can be requested from your Grayhill, Inc. sales associate.

Test Data Available

Samples have been made using the new material and have passed our qualification testing. A summary of the tests performed and the full test reports can be found online, at: <http://www.grayhill.com/about-us/product-advisory-notices/>

Action Required

Please forward this notification and the test report to the appropriate person(s) in your organization. If the change is acceptable, no action is necessary. If you would like to receive a free sample or have questions, contact your Grayhill, Inc. sales associate.



List of Rotary Switches Included in Product Advisory Notice 1241

42052	08A36-01-2-04S	08MS36-09-1-08N	09A30-01-1-05N	09A30-03-2-05N
42053	08A36-02-1-04N	08MSP36-05B04N	09A30-01-1-07N	09A30-03-2-06N
513384	08A36-02-1-05N	08MSP36-05B05N	09A30-01-1-08N	09A30-03-4-03N
513385	08A36-02-1-07N	08P36-01-2-02N	09A30-01-1-10N	09A30-03-6-02N
05001-02N	08A36-02-1-07S	08P36-03-1-04N	09A30-01-1-12N	09A30-03B12N
05001-02S	08A36-02-2-03N	08P36-03-1-05N	09A30-01-2-03N	09A30-04-1-05N
05001-03N	08A36-02-2-04N	08P36-04-1-02N	09A30-01-2-04N	09A30-04-1-06N
05001-03S	08A36-02-2-05N	08P36-04-1-03N	09A30-01-2-05N	09A30-04-1-10N
05001-04N	08A36-02B10N	08P36-04-2-03N	09A30-01-3-02N	09A30-04-1-12N
05001-04S	08A36-03-1-08N	08P36-04-2-05N	09A30-01-3-03N	09A30-04-2-04N
05001-05N	08A36-03-2-03N	08P36-06-2-03S	09A30-01-3-04S	09A30-04-3-04N
05001-05S	08A36-04-1-04N	08S36-01-1-04N	09A30-01-4-02N	09A30-04-4-03N
05001-06N	08A36-04-1-10N	08S36-01-2-04S	09A30-01-4-03N	09A30-05-1-02N
05001-07N	08A36-04B10N	08S36-02-1-05S	09A30-01-6-02N	09A30-05B12N
05001-07S	08A36-05-1-04N	08S36-02-1-08N	09A30-02-1-02N	09A30-06-1-06N
05001-08N	08A36-05-1-10N	08S36-03-1-03N	09A30-02-1-03N	09A30-06-1-08N
05001-08S	08A36-05-2-02N	08S36-03-2-05N	09A30-02-1-04N	09A30-06-1-12N
05001-09N	08A36-06-1-05N	08S36-07-1-10N	09A30-02-1-05N	09A30-06-2-06N
05001-09S	08A36-06-1-07N	08SP36-04-1-05N	09A30-02-1-06N	09A30-08-1-02N
05001-10N	08A36-06-1-10N	093101-1-03N	09A30-02-1-07N	09A30-08-1-05N
05001-10S	08A36-07-2-04N	093101-1-04N	09A30-02-1-10N	09A30-08-1-08N
05002-02N	08A36-08-1-07N	093101-1-04S	09A30-02-1-10S	09A30-09-1-09N
05003-05N	08A36-08-1-10N	093101-2-04N	09A30-02-1-11N	09A30-10-1-12N
05003-10N	08A36-12-1-10N	093101-5-02N	09A30-02-1-12N	09A30-12B12S
05004-02N	08L36-03-2-02N	093101-6-02S	09A30-02-2-03N	09A45-01-1-02N
05004-03N	08LL36-02-2-02N	093102-1-04N	09A30-02-2-05N	09A45-01-1-03N
083161-1-03N	08LL36-02-2-05S	093102-2-02N	09A30-02-2-06N	09A45-01-1-04N
083161-2-03N	08LL36-03-2-03N	093102-2-03N	09A30-02-3-02N	09A45-01-1-05N
083161-2-03S	08LL36-04-1-07N	093102-2-04N	09A30-02-3-03N	09A45-01-1-06N
083162-2-03N	08M36-01-1-03N	093103-2-03S	09A30-02-4-02N	09A45-01-1-07N
083171-1-03N	08M36-01-1-10N	093111-1-03N	09A30-02-4-02S	09A45-01-1-08N
083171-1-05N	08M36-02-1-03N	093111-2-03S	09A30-02-4-03N	09A45-01-2-03S
083173-2-02N	08M36-03-2-04S	093111-4-03N	09A30-02B12N	09A45-01-2-04N
083191-1-03N	08M36-05-1-08N	093111-4-03S	09A30-03-1-02N	09A45-01-2-04S
083191-1-05N	08ML36-02-2-02N	093112-1-03N	09A30-03-1-04N	09A45-01B08N
083191-2-05N	08ML36-07-1-02S	093112-3-03N	09A30-03-1-05N	09A45-02-1-03N
083192-2-03N	08MP36-01-1-03N	093121-1-02N	09A30-03-1-05S	09A45-02-1-03S
08A36-01-1-02N	08MS36-01-1-10S	093121-1-03N	09A30-03-1-06N	09A45-02-1-04N
08A36-01-1-02S	08MS36-02-1-02N	093121-1-05N	09A30-03-1-08N	09A45-02-1-05N
08A36-01-1-03N	08MS36-02-1-06N	093121-1-06N	09A30-03-1-09N	09A45-02-1-08N
08A36-01-1-05N	08MS36-02-1-08N	093121-3-03N	09A30-03-1-10N	09A45-02-2-02N
08A36-01-1-06N	08MS36-03-1-05N	093121-5-02N	09A30-03-1-12N	09A45-02-2-03N
08A36-01-1-10N	08MS36-04-1-04N	09A30-01-1-02N	09A30-03-2-02N	09A45-02-2-04N
08A36-01-2-02N	08MS36-06-1-04N	09A30-01-1-03N	09A30-03-2-03N	09A45-02-3-02N
08A36-01-2-03N	08MS36-06-1-07N	09A30-01-1-04N	09A30-03-2-04N	09A45-02-4-02N

List of Rotary Switches Included in Product Advisory Notice 1241

09A45-02B08S	09M30-01-1-03S	09M45-03B08N	09MS45-05-1-03N	09S30-05-2-03N
09A45-03-1-04N	09M30-01-1-09N	09M45-04-1-08N	09MS45-05-1-05N	09S45-01-1-08N
09A45-03-1-05S	09M30-01-1-12N	09M45-05-1-08N	09MS45-06-1-06N	09S45-01-2-04S
09A45-03-1-06N	09M30-01-2-03S	09M45-06-1-03N	09MS45-08-1-08N	09S45-03-1-08N
09A45-03-1-08N	09M30-01-2-05N	09M45-06B08N	09MS60-01-1-05N	09S60-01-1-02N
09A45-03-2-04N	09M30-01-2-06S	09M60-01-2-02N	09MS60-01-1-06N	09S60-01-1-06N
09A45-03B08N	09M30-01-4-03N	09M60-02-1-03N	09MS60-01-3-02N	09S60-02-1-05N
09A45-04-1-03N	09M30-02-2-04N	09M60-02-1-04N	09MS60-02-1-04N	09S60-02-2-03N
09A45-04-1-08N	09M30-02-2-06N	09M60-02-1-06N	09MS60-02-1-05N	09S60-03-1-06N
09A45-04-2-02N	09M30-02-3-04N	09M60-03-1-03N	09MS60-02-1-06N	09S90-01-1-03N
09A45-04-2-03N	09M30-02-4-03N	09M60-04-1-02N	09MS60-03-2-02N	09S90-01-1-04N
09A45-04-2-04N	09M30-03-1-05N	09MS30-01-1-03N	09MS60-03-2-03N	09S90-01-2-02N
09A45-05-1-08N	09M30-03-1-07N	09MS30-01-1-07N	09MS60-04-1-02N	09S90-03-1-03N
09A45-05-2-04N	09M30-03-1-12N	09MS30-01-1-08N	09MS60-04-1-04N	09S90-04-1-03N
09A45-06-1-04N	09M30-03-2-05N	09MS30-01-1-09N	09MS60-04-1-05N	09S90-06-1-02N
09A45-06-2-04N	09M30-03-2-06N	09MS30-01-3-03N	09MS60-05-1-06N	09S90-06-1-03N
09A45-12-1-02N	09M30-03-3-04N	09MS30-01-3-04N	09MSP60-02A06N	19001-02UL
09A60-01-1-02N	09M30-03-5-02N	09MS30-01-4-03N	09P30-02-1-03N	19001-03UL
09A60-01-1-03N	09M30-03-6-02N	09MS30-01-6-02N	09P30-02-1-04N	19001-04UL
09A60-01-1-04N	09M30-04-1-04S	09MS30-02-1-05N	09P30-02-1-05N	19001-05UL
09A60-01-1-05N	09M30-04-1-07N	09MS30-02-1-07N	09P30-02-1-06N	19001-06UL
09A60-01-1-06N	09M30-04-2-06N	09MS30-02-1-12N	09P30-02-1-11N	19001-07UL
09A60-02-1-04N	09M30-05-2-02N	09MS30-02-2-03S	09P30-02-4-03N	19001-08UL
09A60-02-1-05N	09M30-05-2-06N	09MS30-02-2-04S	09P30-03-1-02N	19001-09UL
09A60-02-1-06N	09M30-06-3-02N	09MS30-02-2-05N	09P30-03-1-03N	19001-10UL
09A60-02-3-02N	09M30-07-2-06S	09MS30-02-4-03N	09P30-04-1-03N	19001-11UL
09A60-02B06N	09M30-08-1-09S	09MS30-02-6-02N	09P30-04-1-11N	19101-02UL
09A60-04-1-03N	09M30-12-1-12N	09MS30-03-1-12N	09P30-11-1-06S	19101-03UL
09A90-01-1-02N	09M45-01-1-03N	09MS30-03-4-03N	09P60-01-1-02N	19101-04UL
09A90-01-1-03N	09M45-01-1-05N	09MS30-03-6-02N	09P60-02-2-03N	19101-05UL
09A90-01-1-04N	09M45-01-1-06N	09MS30-04-2-03N	09P60-04-1-05N	19101-06UL
09A90-02-1-03N	09M45-01-1-08N	09MS30-04-2-06N	09P90-02-1-04N	19101-07UL
09A90-02-1-04N	09M45-01-2-02N	09MS30-05-2-06N	09S30-01-1-12N	19101-08UL
09A90-02-2-02N	09M45-01-2-03N	09MS30-06-1-03N	09S30-01-2-06N	19101-09UL
09A90-03-1-02N	09M45-02-1-04N	09MS30-06-1-04N	09S30-01-3-04N	19101-10UL
09A90-03-1-03N	09M45-02-1-05N	09MS30-06-1-05N	09S30-01-4-03N	19101-11UL
09A90-03-1-04N	09M45-02-1-06N	09MS30-08-2-06N	09S30-01-6-02N	19101-12UL
09A90-03-2-02N	09M45-02-1-08N	09MS30-09-1-09N	09S30-02-1-12N	20S22GC-22GC-P
09A90-03B04N	09M45-02-2-03N	09MS45-01-1-02N	09S30-02-2-05N	20SG207-G207-P
09A90-04-1-03N	09M45-02-4-02N	09MS45-01-1-03N	09S30-02-2-05S	24001-02N
09A90-04-1-04N	09M45-02-4-02S	09MS45-01-1-08N	09S30-03-1-06N	24001-02S
09A90-05-1-02N	09M45-03-1-05N	09MS45-02-1-03N	09S30-03-2-06N	24001-03N
09A90-05-1-04N	09M45-03-1-08N	09MS45-02-2-03N	09S30-03-4-03N	24001-03S
09A90-06-1-04N	09M45-03-1-08S	09MS45-02B08S	09S30-03-6-02N	24001-04N
09M30-01-1-03N	09M45-03-3-02N	09MS45-04-2-03N	09S30-04-1-03N	24001-04S

List of Rotary Switches Included in Product Advisory Notice 1241

24001-05N	25BP22-B-2-16F	25BSR22-G-1-13	423483-1-03N	42A36-03-1-05N
24001-06N	25BP22-G-1-16C	25BSR22-G-1-16C	423483-1-03S	42A36-03-1-06N
24001-06S	25BP22-G-1-16F	25BSR22-G-1-16F	423491-1-03N	42A36-03-1-07N
24001-07N	25BP30-B-1-06	25BSR22-Q-1-16C	423491-1-05N	42A36-03-1-08N
24001-07S	25BP45-Q-2-08C	25BSR30-G-1-12C	423501-1-03N	42A36-03-1-10N
24001-08N	25BR10-Q-1-36C	25BSR30-Q-1-12C	423501-1-05N	42A36-03-2-02S
24001-09N	25BR15-B-1-19	25LB10-Q	423511-1-03N	42A36-03-2-03N
24001-10N	25BR15-B-1-24C	25LB10-Q-Z	423511-2-03S	42A36-03B10N
24001-10S	25BR18-G-1-20C	25LB11-Q	423521-1-03N	42A36-04-1-03N
24002-05N	25BR18-G-1-20F	25LB11-Q-Z	423522-1-05N	42A36-04-1-04N
24002-10N	25BSP10-Q-1-36C	25LB15-Q	423531-1-03N	42A36-04-1-04S
24003-06N	25BSP11-B-1-32C	25LB15-Q-Z	423531-1-04N	42A36-04-1-10N
24004-03N	25BSP11-Q-1-32C	25LB18-Q	42A36-01-1-02N	42A36-04-1-10S
24004-04N	25BSP15-B-1-23	25LB18-Q-Z	42A36-01-1-03N	42A36-04-2-02N
24004-10N	25BSP15-B-1-24C	25LB22-G	42A36-01-1-03S	42A36-04-2-03N
24005-04N	25BSP15-G-1-08	25LB22-G-Z	42A36-01-1-04N	42A36-04-2-04N
24101-1-03N	25BSP15-G-1-16	25LB22-H	42A36-01-1-04S	42A36-04-2-05N
24103-1-03N	25BSP15-G-1-19	25LB22-H-Z	42A36-01-1-05N	42A36-05-1-03N
24803-10N	25BSP15-Q-1-24C	25LB22-Q	42A36-01-1-06N	42A36-05-1-04N
24878-02N	25BSP22-B-1-04	25LB22-Q-Z	42A36-01-1-08N	42A36-05-2-05N
24878-03N	25BSP22-B-1-08	25LB30-Q	42A36-01-1-09N	42A36-06-1-09N
24878-03S	25BSP22-B-1-10	25LB30-Q-Z	42A36-01-1-10N	42A36-06-1-10N
24878-04N	25BSP22-B-1-16C	25LB45-Q	42A36-01-1-10S	42A36-06B10N
24878-05N	25BSP22-B-1-16F	25LR10-Q-Z	42A36-01-2-03N	42A36-07-1-03N
24878-06N	25BSP22-B-4-16F	25LR15-Q	42A36-01-2-03S	42A36-07-2-05N
24878-07N	25BSP22-G-1-06	25LR22-G	42A36-01-2-04N	42A36-08-1-10N
24878-07S	25BSP22-G-1-08	25LR22-G-Z	42A36-01-2-05S	42A36-08-2-05N
24878-09N	25BSP22-G-1-11	25LR22-Q	42A36-01B10N	42D36-01-1-AJN
24878-10N	25BSP22-G-1-16C	25LR30-Q	42A36-01B10S	42D36-01-1-AJS
24878-10S	25BSP22-G-1-16F	25LR30-Q-Z	42A36-02-1-02N	42D36-01-2-AJN
24B36-01-1-02N	25BSP22-G-4-16F	26AS22-01-1-02S	42A36-02-1-03N	42D36-01-2-AJS
24B36-01-1-04N	25BSP22-G-4-8	26AS22-01-1-15S	42A36-02-1-03S	42D36-02-1-AJN
24B36-01-1-06N	25BSP22-Q-1-16C	26AS22-01A16S	42A36-02-1-04N	42D36-02-1-AJS
24B36-01-1-06S	25BSP22-Q-1-16F	26AS45-01A08S	42A36-02-1-04S	42D36-02-2-AJN
24B36-01-1-07S	25BSP30-B-1-12C	26ASD22-01PAJS	42A36-02-1-05N	42D36-02-2-AJS
24B36-01-1-10N	25BSP30-Q-1-05	26ASD45-01PAJS	42A36-02-1-07N	42D36-03-1-AJN
24P36-01-1-03N	25BSP30-Q-1-12C	26GS22-01A16S	42A36-02-1-09N	42D36-03-1-AJS
24P36-01-1-10N	25BSP45-B-1-08C	26GS22-01B16S	42A36-02-1-10S	42D36-03-2-AJN
25BF22-B-1-16F	25BSP45-Q-1-08C	26GS45-01A08S	42A36-02-2-03N	42D36-04-1-AJN
25BF22-Q-1-16C	25BSR10-Q-1-36C	26GSD22-01PAJS	42A36-02-2-04N	42D36-04-2-AJN
25BP10-Q-4-36C	25BSR15-G-1-16	26GSD45-01PAJS	42A36-02-2-05N	42D36-04-2-AJS
25BP15-Q-1-24C	25BSR15-Q-1-24C	423481-1-03N	42A36-02B10N	42D36-05-1-AJS
25BP22-B-1-08	25BSR22-B-1-13	423481-2-03N	42A36-03-1-03N	42D36-05-2-AJN
25BP22-B-1-16C	25BSR22-B-1-16F	423481-2-03S	42A36-03-1-03S	42D36-06-1-AJN
25BP22-B-1-16F	25BSR22-G-1-08	423482-1-03N	42A36-03-1-04N	42D36-07-1-AJN

List of Rotary Switches Included in Product Advisory Notice 1241

42D36-08-1-AJN	42M36-02-2-03N	42P36-02-1-06N	443121-1-02N	44A30-01-1-12S
42D36-09-1-AJN	42M36-02-2-03S	42P36-03-1-03N	443121-1-04N	44A30-01-2-02N
42D36-10-1-AJN	42M36-02-2-04N	42P36-03-1-04S	443121-1-05N	44A30-01-2-03N
42D36-12-2-AJN	42M36-02-2-05N	42P36-03-1-05N	443121-1-06N	44A30-01-2-04N
42H36-01-1-08N	42M36-03-1-02N	42P36-04-1-04N	443121-1-06S	44A30-01-2-05N
42H36-01-2-02N	42M36-03-1-04S	42P36-04-1-06S	443121-2-03N	44A30-01-2-05S
42H36-01-2-03N	42M36-03-1-05N	42P36-08-1-02S	443122-1-04N	44A30-01-2-06N
42H36-01-2-03S	42M36-03-1-06N	42P36-09-1-05N	443451-1-03N	44A30-01-2-06S
42H36-02-1-02N	42M36-03-1-10N	42P36-10-1-10N	443451-1-03S	44A30-01-3-03N
42H36-03-1-03N	42M36-03-2-02N	42S36-01-1-02N	443451-2-03N	44A30-01-3-03S
42H36-03-1-04N	42M36-03-2-05N	42S36-01-1-04N	443451-2-03S	44A30-01-3-04N
42H36-03-1-06N	42M36-03-2-05S	42S36-01-2-02N	443452-1-03N	44A30-01-4-02N
42HG36-04-1-03N	42M36-04-1-02N	42S36-01-2-03N	443461-1-04N	44A30-01-4-03N
42HS36-01-1-02N	42M36-04-1-03N	42S36-01-2-04N	443461-1-06N	44A30-01-4-03S
42HS36-01-1-03N	42M36-04-1-06N	42S36-01-2-05N	443461-2-05N	44A30-01-6-02N
42HS36-01-1-04N	42M36-04-1-10N	42S36-02-1-05N	443463-1-03S	44A30-01B12N
42HS36-01-1-05N	42M36-04-2-02N	42S36-02-1-08N	443491-1-03N	44A30-01B12S
42HS36-01-1-05S	42M36-04-2-05N	42S36-03B10N	443491-2-03N	44A30-02-1-02N
42HS36-01-2-02N	42M36-06-2-05N	42S36-04-2-03N	443491-2-03S	44A30-02-1-03N
42HS36-01-2-03N	42M36-06B10N	42S36-04-2-05N	443492-1-03N	44A30-02-1-04N
42HS36-01-2-03S	42M36-07-2-05N	42SP36-02-1-02N	443493-1-03N	44A30-02-1-05N
42HS36-01-2-05N	42M36-09-2-04N	42SP36-03-1-10N	443501-1-04N	44A30-02-1-06N
42HS36-01-2-05S	42M36-10-1-10N	42SP36-06-1-03N	443501-2-02N	44A30-02-1-07N
42HS36-02-1-07N	42M36-10-2-02N	42SP36-06-1-04N	443503-1-03N	44A30-02-1-08N
42HS36-02-1-08N	42M36-10-2-05N	42SP36-08-1-05N	443511-1-05N	44A30-02-1-08S
42HS36-02-1-10N	42M36-11-2-05N	42UA36-01-1-03N	443511-2-02N	44A30-02-1-09N
42HS36-02-2-05S	42M36-12-1-10N	42UA36-01-1-10N	443513-1-02N	44A30-02-1-10N
42HS36-03-1-08N	42M36-12-2-04N	42UA36-01-2-03N	443513-1-03N	44A30-02-1-11N
42HS36-03-2-03N	42M36-12-2-05S	42UD36-01-1-AJN	44A30-01-1-02N	44A30-02-1-12N
42HS36-03-2-05N	42MBS36-01B04N	42UD36-02-2-AJN	44A30-01-1-02S	44A30-02-2-03N
42HS36-05-2-05N	42MBS36-02C04N	42UD36-04-1-AJS	44A30-01-1-03N	44A30-02-2-04N
42HS36-08-1-10N	42MGS36-03B06N	42UD36-06-1-AJS	44A30-01-1-03S	44A30-02-2-05N
42M36-01-1-02N	42MS36-01-1-02N	42UD36-09-1-AJN	44A30-01-1-04N	44A30-02-2-06N
42M36-01-1-02S	42MS36-01-1-04N	42UP36-07-1-05N	44A30-01-1-04S	44A30-02-3-03N
42M36-01-1-03N	42MS36-02-1-04N	42UP36-08-1-05N	44A30-01-1-05N	44A30-02-3-03S
42M36-01-1-04N	42MS36-02-1-05N	42UP36-12-1-05N	44A30-01-1-05S	44A30-02-3-04N
42M36-01-1-04S	42MS36-02-2-04N	42USP36-03B05N	44A30-01-1-06N	44A30-02-3-04S
42M36-01-1-05N	42MS36-02B10N	42USP36-04B09S	44A30-01-1-06S	44A30-02-4-02N
42M36-01-1-05S	42P36-01-1-03N	43A-2BF-2BF	44A30-01-1-07N	44A30-02-4-03N
42M36-01-2-03N	42P36-01-1-04N	43D36-01-1-AJN	44A30-01-1-07S	44A30-02-5-02N
42M36-01-2-04N	42P36-01-1-05N	43D36-02-1-AJN	44A30-01-1-08N	44A30-02-6-02N
42M36-02-1-03S	42P36-01-1-06S	43M-1AJ-1AJ	44A30-01-1-08S	44A30-02B12S
42M36-02-1-05N	42P36-02-1-03N	43M-1BF-1BF	44A30-01-1-10N	44A30-03-1-02N
42M36-02-1-07N	42P36-02-1-03S	43M-2BC-1CC	44A30-01-1-10S	44A30-03-1-03N
42M36-02-1-09N	42P36-02-1-05S	43M-3BG-3BG	44A30-01-1-12N	44A30-03-1-04N

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44A30-03-1-04S	44A30-06-1-04N	44A45-02-1-05S	44A60-02B06N	44D30-02-1-AJN
44A30-03-1-06N	44A30-06-1-06N	44A45-02-1-07N	44A60-03-1-03N	44D30-02-1-AJS
44A30-03-1-07N	44A30-06-1-08N	44A45-02-1-08N	44A60-03-1-04N	44D30-02-2-AJN
44A30-03-1-08N	44A30-06-1-12N	44A45-02-2-02N	44A60-03-1-06N	44D30-02-2-AJS
44A30-03-1-10N	44A30-06-2-04N	44A45-02-2-03N	44A60-03-2-02N	44D30-02-3-AJN
44A30-03-1-11N	44A30-06-2-05N	44A45-02-2-04N	44A60-03-2-03N	44D30-02-4-AJN
44A30-03-1-12N	44A30-06-2-05S	44A45-03-1-03N	44A60-03-3-02N	44D30-02-4-AJS
44A30-03-1-12S	44A30-06-2-06N	44A45-03-1-03S	44A60-03B06N	44D30-03-1-AJN
44A30-03-2-03N	44A30-06-3-04N	44A45-03-1-05N	44A60-04-1-02N	44D30-03-1-AJS
44A30-03-2-05N	44A30-07-1-07N	44A45-03-1-06N	44A60-04-1-03N	44D30-03-2-AJN
44A30-03-2-05S	44A30-07-1-10N	44A45-03-1-08N	44A60-04-1-04N	44D30-03-2-AJS
44A30-03-2-06N	44A30-07-2-02N	44A45-03-1-08S	44A60-04-1-06N	44D30-03-3-AJN
44A30-03-3-02N	44A30-07-2-05S	44A45-03-2-03N	44A60-04-2-03N	44D30-03-4-AJN
44A30-03-3-03N	44A30-07-3-04N	44A45-03-2-03S	44A60-04-3-02N	44D30-03-4-AJS
44A30-03-3-04N	44A30-08-1-04N	44A45-03-2-04N	44A60-04B06N	44D30-04-1-AJN
44A30-03-4-02N	44A30-08-1-08N	44A45-03-2-04S	44A60-05-1-06N	44D30-04-1-AJS
44A30-03-4-03N	44A30-08-1-09N	44A45-03-4-02N	44A60-05-2-03N	44D30-04-2-AJN
44A30-03-6-02N	44A30-08-3-04N	44A45-04-1-03N	44A60-06-2-03N	44D30-04-2-AJS
44A30-03B12N	44A30-09-1-07N	44A45-04-1-04N	44A60-10-1-05N	44D30-04-3-AJN
44A30-04-1-02N	44A30-10-1-11N	44A45-04-1-08N	44A60-12-1-06N	44D30-05-1-AJN
44A30-04-1-03N	44A30-10-1-12N	44A45-04-1-08S	44A90-01-1-02N	44D30-05-2-AJN
44A30-04-1-03S	44A30-10-1-12S	44A45-04-2-04N	44A90-01-1-03N	44D30-05-2-AJS
44A30-04-1-04N	44A30-12-1-12N	44A45-05-1-05N	44A90-01-1-04N	44D30-06-1-AJN
44A30-04-1-07N	44A30-12-2-04N	44A45-05-1-07N	44A90-01-2-02N	44D30-06-2-AJN
44A30-04-1-09N	44A30-12-2-06N	44A45-05-1-08N	44A90-01B04N	44D30-06-4-AJN
44A30-04-1-11S	44A45-01-1-02N	44A45-05-2-03N	44A90-02-1-02N	44D30-07-1-AJN
44A30-04-1-12N	44A45-01-1-02S	44A45-05B08S	44A90-02-1-03N	44D30-07-1-AJS
44A30-04-2-02N	44A45-01-1-03N	44A45-06-1-03N	44A90-02-1-04N	44D30-07-2-AJN
44A30-04-2-03N	44A45-01-1-04N	44A45-08-1-04N	44A90-02-2-02N	44D30-07-3-AJN
44A30-04-2-04N	44A45-01-1-04S	44A45-08-1-05N	44A90-02B04N	44D30-08-1-AJN
44A30-04-2-05N	44A45-01-1-05N	44A60-01-1-02N	44A90-03-1-03N	44D30-08-2-AJN
44A30-04-2-06N	44A45-01-1-06N	44A60-01-1-03N	44A90-03-1-04N	44D30-09-1-AJN
44A30-04-3-02N	44A45-01-1-07N	44A60-01-1-04N	44A90-04-1-02N	44D30-09-2-AJN
44A30-04-3-03N	44A45-01-1-08N	44A60-01-1-05N	44A90-04-1-04N	44D30-10-1-AJN
44A30-04-3-04N	44A45-01-2-02N	44A60-01-1-06N	44A90-04-2-02N	44D30-12-1-AJN
44A30-04-4-02N	44A45-01-2-02S	44A60-01-2-02N	44A90-05-1-04N	44D30-12-1-AJS
44A30-04-4-03N	44A45-01-2-03N	44A60-01-2-03N	44A90-06-1-04N	44H30-01-1-03N
44A30-04-5-02N	44A45-01-2-04N	44A60-01-3-02N	44A90-06-2-02N	44H30-01-1-12N
44A30-04-6-02N	44A45-01-2-04S	44A60-01B06N	44A90-12-1-02N	44H30-01-2-02N
44A30-05-1-04S	44A45-01-4-02N	44A60-02-1-02N	44D30-01-1-AJN	44H30-01-2-06N
44A30-05-1-06S	44A45-01B08N	44A60-02-1-04N	44D30-01-1-AJS	44H30-01-2-06S
44A30-05-1-12N	44A45-02-1-02N	44A60-02-1-06N	44D30-01-2-AJN	44H30-01-3-03N
44A30-05-2-06N	44A45-02-1-03N	44A60-02-2-02N	44D30-01-2-AJS	44H30-01-3-04N
44A30-06-1-02N	44A45-02-1-04N	44A60-02-2-03N	44D30-01-3-AJN	44H30-01-4-03N
44A30-06-1-03N	44A45-02-1-05N	44A60-02-3-02N	44D30-01-4-AJN	44H30-02-1-07N

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44H30-02-2-02N	44HBG30-01B05N	44HS30-02-1-08N	44HS30-08-1-12N	44HS90-01-1-03N
44H30-02-2-04N	44HBG30-03B10S	44HS30-02-1-10N	44HS30-08-3-04S	44HS90-01-2-02N
44H30-02-2-05N	44HBGS30-01B12N	44HS30-02-1-12N	44HS45-01-1-03N	44HS90-02-1-02N
44H30-02-2-06S	44HBGS30-02E02N	44HS30-02-1-12S	44HS45-01-1-04N	44HS90-02-1-03N
44H30-02-4-02N	44HBGS30-02G02N	44HS30-02-2-04N	44HS45-01-1-05N	44HS90-02-2-02N
44H30-03-1-03N	44HBGS30-04E02N	44HS30-02-2-05N	44HS45-01-1-06N	44HS90-03-1-03N
44H30-03-1-04N	44HBGS45-01B08N	44HS30-02-2-06N	44HS45-01-1-08N	44HS90-03-1-04N
44H30-03-1-11N	44HBGS90-02C02N	44HS30-02-3-03N	44HS45-01-2-03N	44HS90-04-2-02N
44H30-03-2-05N	44HBS30-01B03S	44HS30-02-3-04N	44HS45-01-2-04N	44HS90-05-1-02N
44H30-03-3-04N	44HBS45-03C04N	44HS30-02-4-03N	44HS45-01-3-02N	44L45-01-1-02N
44H30-04-1-03N	44HBS45-04A08N	44HS30-02-6-02N	44HS45-01-4-02N	44L45-01-1-03N
44H30-04-1-07N	44HBS60-01B03N	44HS30-03-1-03N	44HS45-02-1-04N	44L45-01-1-04N
44H30-04-1-12N	44HBS60-02B04N	44HS30-03-1-04S	44HS45-02-1-05N	44L45-01-1-05N
44H30-04-6-02N	44HG30-01-1-05N	44HS30-03-1-09N	44HS45-02-1-06N	44L45-01-1-07N
44H30-06-1-07N	44HG60-04-1-04N	44HS30-03-1-10N	44HS45-02-1-08N	44L45-01-2-02N
44H30-06-4-02N	44HGS30-01B04N	44HS30-03-1-11N	44HS45-02-2-03N	44L45-01-2-03N
44H30-08-1-12N	44HGS45-01B03S	44HS30-03-1-12N	44HS45-02-2-03S	44L45-01-2-03S
44H30-09-1-07S	44HGS45-01B04S	44HS30-03-2-02N	44HS45-02-2-04N	44L45-01-2-04N
44H45-01-1-02N	44HGS45-01C03S	44HS30-03-2-04N	44HS45-02-4-02N	44L45-01-3-02N
44H45-01-1-03N	44HGS45-03C03S	44HS30-03-2-05N	44HS45-03-1-07N	44L45-01-4-02N
44H45-01-1-04N	44HS30-01-1-02N	44HS30-03-3-03N	44HS45-03-1-08N	44L45-02-1-02N
44H45-01-1-05N	44HS30-01-1-03N	44HS30-03-3-04N	44HS45-03-2-03N	44L45-02-1-02S
44H45-01-1-06N	44HS30-01-1-03S	44HS30-03-6-02N	44HS45-03-2-03S	44L45-02-1-03N
44H45-01-1-07N	44HS30-01-1-04N	44HS30-03B12N	44HS45-03-2-04N	44L45-02-1-04N
44H45-01-1-08N	44HS30-01-1-05N	44HS30-04-1-03N	44HS45-04-1-03N	44L45-02-1-04S
44H45-01-2-02N	44HS30-01-1-05S	44HS30-04-1-05N	44HS45-04-1-04N	44L45-02-1-08N
44H45-01-2-03N	44HS30-01-1-06N	44HS30-04-1-06N	44HS45-04-1-05S	44L45-02-2-02N
44H45-01-2-04N	44HS30-01-1-06S	44HS30-04-1-09N	44HS45-04-1-06N	44L45-02-2-03S
44H45-01-2-04S	44HS30-01-1-09S	44HS30-04-1-11N	44HS45-04-1-07S	44L45-02-2-04N
44H45-02-2-02N	44HS30-01-1-11N	44HS30-04-1-12N	44HS45-06-2-03N	44L45-02-4-02N
44H45-02-2-03N	44HS30-01-1-12N	44HS30-04-2-04N	44HS45-07-1-03N	44L45-02B08N
44H45-02-2-04N	44HS30-01-1-12S	44HS30-04-2-06N	44HS45-08B08N	44L45-03-2-03N
44H45-03-1-08N	44HS30-01-2-02N	44HS30-04-3-03N	44HS45-11-1-07N	44L45-04-1-02N
44H45-03B08N	44HS30-01-2-03N	44HS30-04-4-03N	44HS60-01-1-03N	44L45-04-1-03N
44H45-06-1-06N	44HS30-01-2-04N	44HS30-04-6-02N	44HS60-01-1-06N	44L45-05-1-04N
44H45-11-1-07S	44HS30-01-2-04S	44HS30-04-6-02S	44HS60-01-3-02N	44L45-06-1-02N
44H60-02-1-03N	44HS30-01-2-05N	44HS30-05-1-10N	44HS60-02-1-02N	44M30-01-1-02N
44H60-02-1-05N	44HS30-01-2-06N	44HS30-05-1-11N	44HS60-02-1-03N	44M30-01-1-02S
44H60-03-1-06N	44HS30-01-3-03N	44HS30-05-2-06S	44HS60-02-1-06N	44M30-01-1-03N
44H60-04-1-04N	44HS30-01-3-04N	44HS30-05-3-04N	44HS60-02-2-03N	44M30-01-1-03S
44H60-05-2-03N	44HS30-01-4-03N	44HS30-05-4-03N	44HS60-03-1-06N	44M30-01-1-04N
44H90-01-1-03N	44HS30-02-1-03N	44HS30-06-1-04N	44HS60-04-1-04N	44M30-01-1-04S
44H90-01-2-02N	44HS30-02-1-06N	44HS30-06-1-07S	44HS60-04-2-03N	44M30-01-1-05N
44H90-03-1-04N	44HS30-02-1-06S	44HS30-06-1-12N	44HS60-05-1-06N	44M30-01-1-06N
44HB30-03-1-10N	44HS30-02-1-07N	44HS30-06-4-03N	44HS90-01-1-02N	44M30-01-1-06S

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44M30-01-1-07N	44M30-03-1-04S	44M30-05-2-06N	44M45-01-2-04S	44M60-01-1-02N
44M30-01-1-08N	44M30-03-1-05N	44M30-05-4-02N	44M45-01-4-02N	44M60-01-1-03N
44M30-01-1-09N	44M30-03-1-05S	44M30-05-4-03N	44M45-01B08N	44M60-01-1-04N
44M30-01-1-11N	44M30-03-1-06S	44M30-05B12S	44M45-02-1-02N	44M60-01-1-05N
44M30-01-1-12N	44M30-03-1-08N	44M30-06-1-06N	44M45-02-1-03N	44M60-01-1-06N
44M30-01-2-03N	44M30-03-1-08S	44M30-06-1-07N	44M45-02-1-03S	44M60-01-2-02N
44M30-01-2-04N	44M30-03-1-10N	44M30-06-1-08N	44M45-02-1-04N	44M60-01-2-03N
44M30-01-2-05N	44M30-03-1-10S	44M30-06-1-10S	44M45-02-1-05S	44M60-01-3-02N
44M30-01-2-06N	44M30-03-1-12N	44M30-06-1-12N	44M45-02-1-06N	44M60-01B06N
44M30-01-3-02N	44M30-03-2-02N	44M30-06-2-06N	44M45-02-1-07N	44M60-02-1-02N
44M30-01-3-03N	44M30-03-2-03N	44M30-06-3-03N	44M45-02-1-08N	44M60-02-1-03N
44M30-01-3-04N	44M30-03-2-04N	44M30-06-4-03N	44M45-02-2-03N	44M60-02-1-04N
44M30-01-4-02N	44M30-03-2-05S	44M30-06B12N	44M45-02-2-04N	44M60-02-1-05N
44M30-01-4-03N	44M30-03-2-06N	44M30-07-1-02N	44M45-02-2-04S	44M60-02-1-06N
44M30-01-6-02N	44M30-03-3-03N	44M30-07-1-04S	44M45-02-4-02N	44M60-02-2-03N
44M30-01B12N	44M30-03-3-03S	44M30-07-1-08N	44M45-02B08N	44M60-02B06N
44M30-02-1-02N	44M30-03-3-04S	44M30-07-2-05S	44M45-03-1-02N	44M60-03-1-03N
44M30-02-1-03N	44M30-03-4-02N	44M30-07-3-04N	44M45-03-1-03N	44M60-03-1-04N
44M30-02-1-03S	44M30-03-4-03N	44M30-08-1-04S	44M45-03-1-03S	44M60-03-2-03N
44M30-02-1-04N	44M30-03-6-02N	44M30-08-1-06S	44M45-03-1-04N	44M60-03-3-02N
44M30-02-1-05N	44M30-03B12N	44M30-08-1-08N	44M45-03-1-04S	44M60-04-1-04N
44M30-02-1-06N	44M30-04-1-02N	44M30-08-1-12N	44M45-03-1-05N	44M60-04-1-05N
44M30-02-1-06S	44M30-04-1-03N	44M30-08-3-04N	44M45-03-1-08N	44M60-04-1-06N
44M30-02-1-07N	44M30-04-1-03S	44M30-09-1-02N	44M45-03-2-03N	44M60-04-2-03N
44M30-02-1-08N	44M30-04-1-04N	44M30-10-1-03N	44M45-03-2-03S	44M60-04-3-02N
44M30-02-1-11N	44M30-04-1-05N	44M30-10-1-05S	44M45-04-1-03N	44M60-05-1-04N
44M30-02-1-12N	44M30-04-1-06N	44M30-10-1-08N	44M45-04-1-03S	44M60-08-1-06N
44M30-02-1-12S	44M30-04-1-07N	44M30-10B12N	44M45-04-1-05N	44M60-10-1-06N
44M30-02-2-04N	44M30-04-1-09N	44M30-12-1-12N	44M45-04-1-05S	44M90-01-1-02N
44M30-02-2-05N	44M30-04-1-12N	44M30-12B12N	44M45-04-1-07N	44M90-01-1-03N
44M30-02-2-06N	44M30-04-2-02N	44M45-01-1-02N	44M45-04-1-08N	44M90-01-1-04N
44M30-02-3-03N	44M30-04-2-03N	44M45-01-1-02S	44M45-04-2-03N	44M90-01-2-02N
44M30-02-3-03S	44M30-04-2-06N	44M45-01-1-03N	44M45-04-2-04N	44M90-01B04N
44M30-02-3-04N	44M30-04-3-03N	44M45-01-1-03S	44M45-04-2-04S	44M90-02-1-03N
44M30-02-3-04S	44M30-04-3-04S	44M45-01-1-04N	44M45-04-4-02N	44M90-02-1-04N
44M30-02-4-02N	44M30-04-4-02N	44M45-01-1-04S	44M45-05-1-03N	44M90-02-2-02N
44M30-02-4-03N	44M30-04-4-03N	44M45-01-1-05N	44M45-07-1-04N	44M90-03-1-02N
44M30-02-5-02N	44M30-04-4-03S	44M45-01-1-06N	44M45-08-1-02N	44M90-03-1-03N
44M30-02-6-02N	44M30-04-6-02N	44M45-01-1-06S	44M45-09-1-02N	44M90-03-1-04N
44M30-02-6-02S	44M30-05-1-02N	44M45-01-1-07N	44M45-09-1-03N	44M90-03-2-02N
44M30-02B12N	44M30-05-1-06S	44M45-01-1-08N	44M45-09-1-07N	44M90-04-1-04N
44M30-02B12S	44M30-05-1-09N	44M45-01-2-02N	44M45-12-1-03N	44M90-04-2-02N
44M30-03-1-02N	44M30-05-1-12N	44M45-01-2-03N	44M45-12-1-06N	44M90-06-1-02N
44M30-03-1-02S	44M30-05-1-12S	44M45-01-2-03S	44M45-12-1-07N	44M90-06-1-03N
44M30-03-1-03N	44M30-05-2-02N	44M45-01-2-04N	44M45-12B08N	44M90-06-2-02N

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44MB30-03-3-04N	44MS30-06-1-11N	44S30-01-3-04N	44S45-02-2-04N	44UA60-01-1-06N
44MB90-02-2-02N	44MS30-06-1-12N	44S30-01-6-02N	44S45-02-4-02N	44UA60-01B06N
44MBGS30-02G02N	44MS30-06-4-03N	44S30-01B12N	44S45-03-1-04N	44UA60-03-1-03N
44MBS30-01B04S	44MS30-10-1-11S	44S30-02-1-12N	44S45-03-1-05N	44UA60-04-1-04N
44MBS30-02B04S	44MS30-11-2-06S	44S30-02-2-04N	44S45-03-1-06S	44UA90-01-2-02N
44MBS45-06A08N	44MS45-01-1-03N	44S30-02-2-05N	44S45-03-2-02N	44UA90-03-2-02N
44MBS60-01C02N	44MS45-01-1-04N	44S30-02-3-03N	44S45-03-4-02N	44UA90-06-1-04N
44MBS60-04C03N	44MS45-01-1-05N	44S30-02-3-04N	44S45-04-1-03N	44UA90-10-1-03N
44MG30-01-2-06N	44MS45-01-1-06S	44S30-02-4-03N	44S45-04-1-08N	44UD30-01-1-AJS
44MG30-02-2-06N	44MS45-01-2-03N	44S30-02B12N	44S45-04B08N	44UD30-01-2-AJN
44MG45-01-1-07S	44MS45-01-2-04N	44S30-03-1-11N	44S60-01-1-02N	44UD30-02-1-AJN
44MG45-01-2-03S	44MS45-01-3-02N	44S30-03-2-05N	44S60-01-1-03N	44UD30-03-1-AJN
44MG45-01B08S	44MS45-02-1-06N	44S30-03-3-04N	44S60-01-2-03N	44UD30-04-3-AJN
44MG45-02-1-04S	44MS45-02-1-08N	44S30-03-4-03N	44S60-02B06N	44UD30-05-2-AJN
44MG60-01-1-03N	44MS45-02-2-02N	44S30-03-6-02N	44S60-03-1-04N	44UD30-06-4-AJN
44MG60-02-1-04N	44MS45-02-2-03N	44S30-04-1-03N	44S60-04-1-06N	44UD30-09-1-AJS
44MG60-03-1-02N	44MS45-02-2-04N	44S30-04-1-12N	44S60-05-1-06N	44UM30-05-2-05N
44MG60-03-3-02N	44MS45-03-1-04N	44S30-04-2-05N	44S60-05-2-02N	44UM45-03-1-08S
44MG60-04-3-02N	44MS45-05-1-08N	44S30-04-2-06N	44S60-06-1-06N	44UM60-02-1-02N
44MGS30-01G02N	44MS45-05-2-04N	44S30-04-3-04N	44S60-10B06N	44UM60-03-1-02N
44MGS45-01C03N	44MS60-01-1-02N	44S30-05-3-04N	44S90-01-1-02N	44US30-01-4-03S
44MGS60-02B04N	44MS60-01-1-04N	44S30-06-1-09N	44S90-01-1-03N	44US30-02-1-12N
44MGS90-01A04N	44MS60-01-1-05N	44S30-06-1-12N	44S90-01-1-04N	44US30-03-1-06N
44MS30-01-1-05N	44MS60-01-1-06N	44S30-07-1-12N	44S90-01-2-02N	44US30-03-6-02N
44MS30-01-1-08N	44MS60-01-2-02N	44S30-11-2-05N	44S90-01B04N	44US30-04-1-12N
44MS30-01-1-12N	44MS60-01-2-03N	44S45-01-1-03N	44S90-02-2-02N	44US30-05-4-03N
44MS30-01-2-04N	44MS60-01B06N	44S45-01-1-03S	44S90-02B04N	44US30-08-1-12N
44MS30-01-2-06N	44MS60-02-1-03N	44S45-01-1-04N	44S90-03-1-03N	44US45-02-1-07N
44MS30-01-3-03N	44MS60-02-1-05N	44S45-01-1-04S	44S90-03-2-02N	44US45-03-1-08N
44MS30-01-3-03S	44MS60-02-1-06N	44S45-01-1-05N	44S90-05-1-03N	44US45-04-1-08N
44MS30-01-3-04N	44MS90-01-1-02N	44S45-01-1-05S	44S90-06-1-03N	44US90-01-1-04N
44MS30-01-4-03N	44MS90-01-1-04N	44S45-01-1-06S	44UA30-01-4-02N	44US90-01-2-02N
44MS30-01B12N	44MS90-01-2-02N	44S45-01-1-07N	44UA30-02-1-09S	45001-02N
44MS30-01B12S	44MS90-02-1-04N	44S45-01-1-08N	44UA30-02-2-04N	503265-1-03N
44MS30-02-1-04N	44MS90-02-2-02N	44S45-01-2-03N	44UA30-02-6-02N	503267-1-03N
44MS30-02-1-05N	44MS90-02B04N	44S45-01-2-03S	44UA30-02B12S	50A36-01-1-02N
44MS30-02-1-09N	44MS90-03B04N	44S45-01-2-04N	44UA30-03-6-02N	50A36-01-1-02S
44MS30-02-1-10N	44MS90-04-2-02N	44S45-01-2-04S	44UA30-06-1-08N	50A36-01-1-03N
44MS30-02-1-12N	44MS90-05-1-04N	44S45-02-1-02N	44UA45-01-1-03N	50A36-01-1-03S
44MS30-02-3-04N	44MS90-06-2-02N	44S45-02-1-03N	44UA45-01-1-04N	50A36-01-1-04N
44MS30-02-6-02N	44S30-01-1-04N	44S45-02-1-03S	44UA45-01-2-03N	50A36-01-1-05N
44MS30-03-2-03N	44S30-01-1-05N	44S45-02-1-06S	44UA45-02-1-08N	50A36-01-1-06N
44MS30-03-6-02N	44S30-01-1-06N	44S45-02-1-08N	44UA45-03-4-02N	50A36-01-1-06S
44MS30-03B12N	44S30-01-1-12N	44S45-02-2-03N	44UA45-03B08N	50A36-01-1-07N
44MS30-04-3-04N	44S30-01-3-03N	44S45-02-2-03S	44UA45-08-1-04N	50A36-01-1-07S

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50A36-01-1-08N	50AT45-01B08N	50C36-01-2-04S	50CP45-01-1-08N	50EP60-01-1-03N
50A36-01-1-08S	50AT60-01-1-02N	50C36-01-2-05N	50CP60-01-1-06N	50EP60-01-1-04N
50A36-01-1-09N	50AT60-01-1-03N	50C36-01-2-05S	50CP90-01-1-04N	50EP60-01-1-06N
50A36-01-1-10N	50AT60-01-1-04N	50C45-01-1-02N	50CP90-01-2-02N	50EP60-01-2-03N
50A36-01-1-10S	50AT60-01-1-05N	50C45-01-1-03N	50CPT45-01A08N	50EP90-01A04N
50A36-01-2-02N	50AT60-01-1-06N	50C45-01-1-04N	50CT36-01-1-02N	50EPT90-01A04N
50A36-01-2-02S	50AT60-01-2-02N	50C45-01-1-06N	50CT45-01-1-06N	50ES45-01-1-04N
50A36-01-2-03N	50AT60-01-2-03N	50C45-01-1-08N	50CT60-01-1-02N	50ES45-01-2-04N
50A36-01-2-04N	50AT90-01-1-02N	50C45-01-2-04N	50D36-01-1-AJN	50ESP36-01C02N
50A36-01-2-05N	50AT90-01-1-04N	50C60-01-1-03N	50D36-01-1-AJS	50ESP45-01B08N
50A36-01B10N	50AT90-01B04N	50C60-01-2-02N	50D36-01-2-AJN	50ET36-01B10N
50A36-01B10S	50B36-01-1-02N	50C90-01-1-02N	50D36-01-2-AJS	50ET60-01-2-02N
50A45-01-1-02N	50B36-01-1-05N	50C90-01-1-04N	50D45-01-1-AJN	50K36-01-1-02N
50A45-01-1-03N	50B36-01-2-04N	50CB90-01-2-02N	50D45-01-2-AJN	50K36-01-1-03N
50A45-01-1-04N	50B60-01-1-02N	50CBP36-01C04N	50D60-01-1-AJN	50K36-01-1-04N
50A45-01-1-05N	50B60-01-2-03N	50CBPT45-01A08N	50D60-01-2-AJN	50K36-01-1-05N
50A45-01-1-06N	50B90-01-1-02N	50CBPT45-01B08N	50D90-01-1-AJN	50K36-01-1-06N
50A45-01-1-07N	50BP36-01-1-10N	50CBT60-01A06N	50D90-01-2-AJN	50K36-01-1-06S
50A45-01-1-08N	50BP45-01B08N	50CBT60-01B04N	50DP36-01-1-AJN	50K36-01-1-07N
50A45-01-2-02N	50BP60-01-1-06N	50CD36-01-1-AJN	50DP36-01-2-AJN	50K36-01-1-10N
50A45-01-2-04N	50BS36-01-1-02S	50CD36-01-1-AJS	50DP36-01-2-AJS	50K36-01-1-10S
50A45-01B08N	50BS36-01-1-03N	50CD36-01-2-AJN	50DP45-01-1-AJN	50K36-01-2-04N
50A60-01-1-02N	50BS36-01-2-02N	50CD36-01-2-AJS	50DP45-01-2-AJN	50K36-01B10N
50A60-01-1-03N	50BS45-01-2-02N	50CD45-01-1-AJN	50DP60-01-1-AJN	50K45-01-1-02N
50A60-01-1-04N	50BS45-01-2-04N	50CD45-01-2-AJN	50DP60-01-2-AJN	50K45-01-1-03N
50A60-01-1-05N	50BS60-01-1-03N	50CD60-01-1-AJN	50DP90-01-1-AJN	50K45-01-1-04N
50A60-01-1-06N	50BS90-01-1-02N	50CD60-01-2-AJN	50DP90-01-2-AJN	50K45-01-1-05N
50A60-01-2-02N	50BS90-01-1-03N	50CD90-01-1-AJN	50E36-01-1-06N	50K45-01-1-06N
50A60-01-2-03N	50BS90-01B04N	50CDP36-01PAJN	50E45-01-1-02N	50K45-01-1-07N
50A60-01B06N	50BSP36-01B08N	50CDP36-01PAJS	50E45-01-1-03N	50K45-01-1-08N
50A90-01-1-02N	50BSP36-01C03N	50CDP36-01QAJN	50E45-01-1-04N	50K45-01-2-04N
50A90-01-1-03N	50BSP45-01A08N	50CDP45-01PAJN	50E45-01-1-06N	50K45-01B08N
50A90-01-1-04N	50BSPT36-01C04S	50CDP45-01QAJN	50E60-01-1-02N	50K60-01-1-02N
50A90-01-2-02N	50BSPT90-01B02N	50CDP60-01PAJN	50E60-01-1-03N	50K60-01-1-03N
50AT36-01-1-03N	50BST45-01B02N	50CDP90-01PAJN	50E60-01-2-02N	50K60-01-1-04N
50AT36-01-1-05N	50BST90-01B02N	50CL45-01-2-02N	50E90-01-1-02N	50K60-01-1-05N
50AT36-01-1-06N	50BST90-01C02N	50CL60-01-2-02N	50E90-01-1-04N	50K60-01-1-06N
50AT36-01-1-08N	50C3494-4-B-001	50CL90-01-2-02N	50EM45-01-1-04N	50K60-01-2-03N
50AT36-01-1-10N	50C36-01-1-03N	50CP36-01-1-05N	50EM90-01-1-04N	50K60-01B06N
50AT36-01-1-10S	50C36-01-1-04N	50CP36-01-1-10N	50EMP36-01B05N	50K90-01-1-02N
50AT36-01-2-03S	50C36-01-1-05N	50CP36-01-2-03N	50EMP60-01B03N	50K90-01-1-03N
50AT36-01-2-04S	50C36-01-1-10N	50CP36-01-2-03S	50EMT45-01B02N	50K90-01-1-04N
50AT45-01-1-05N	50C36-01-2-02S	50CP36-01B10N	50EMT60-01B02N	50K90-01-2-02N
50AT45-01-1-08N	50C36-01-2-03N	50CP45-01-1-05N	50EMT60-01B06N	50KBS60-01B06N
50AT45-01-2-04N	50C36-01-2-03S	50CP45-01-1-06N	50EP45-01-2-04N	50KM36-01-1-02N

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50KM36-01-1-04N	50KMPT45-01B05N	50KPT90-01B02N	50KSPT45-01B08N	50M36-01-1-02S
50KM36-01-1-06N	50KMPT45-01B07N	50KS36-01-1-03N	50KSPT45-01C04N	50M36-01-1-03N
50KM36-01-1-08N	50KMPT45-01B08N	50KS36-01-1-03S	50KSPT60-01A06N	50M36-01-1-03S
50KM36-01-2-02N	50KMPT45-01C04N	50KS36-01-1-04S	50KSPT60-01B03N	50M36-01-1-04N
50KM36-01-2-04N	50KMPT60-01A06N	50KS36-01-1-05N	50KSPT60-01B04N	50M36-01-1-04S
50KM45-01-1-03N	50KMPT60-01B03N	50KS36-01-1-10N	50KSPT60-01B06N	50M36-01-1-05N
50KM45-01-1-04N	50KMPT60-01B06N	50KS36-01-2-04S	50KSPT60-01C03N	50M36-01-1-05S
50KM45-01-1-05N	50KMPT60-01C03N	50KS36-01-2-05N	50KST36-01B04N	50M36-01-1-06N
50KM45-01-1-06N	50KMPT90-01A04N	50KS36-01B10N	50KST36-01B04S	50M36-01-1-10N
50KM45-01-1-07N	50KMPT90-01B02N	50KS45-01-1-02N	50KST36-01B05N	50M36-01-2-02N
50KM45-01-1-08N	50KMPT90-01B03N	50KS45-01-1-03N	50KST36-01B10N	50M36-01-2-02S
50KM45-01-2-04N	50KMT36-01B03N	50KS45-01-1-04N	50KST45-01B02N	50M36-01-2-03N
50KM60-01-1-02N	50KMT36-01B04S	50KS45-01-1-05N	50KST45-01B03N	50M36-01-2-03S
50KM60-01-1-03N	50KMT36-01B07N	50KS45-01-1-06N	50KST45-01B04N	50M36-01-2-04N
50KM60-01-1-06N	50KMT36-01C05N	50KS45-01-2-02N	50KST45-01B05N	50M36-01-2-05N
50KM60-01-2-03N	50KMT45-01B02N	50KS45-01-2-03N	50KST45-01B06N	50M36-01-2-05S
50KM90-01-1-02N	50KMT45-01B03N	50KS45-01-2-04N	50KST45-01B07N	50M36-01B10N
50KM90-01-1-03N	50KMT45-01B04N	50KS60-01-1-02N	50KST45-01B08N	50M45-01-1-02N
50KM90-01-1-04N	50KMT45-01B05N	50KS60-01-1-03N	50KST60-01B02N	50M45-01-1-03N
50KM90-01-2-02N	50KMT45-01B08N	50KS60-01-1-04N	50KST60-01B03N	50M45-01-1-04N
50KMB36-01A02N	50KMT45-01C03N	50KS60-01-1-05N	50KST60-01B04N	50M45-01-1-05N
50KMB36-01B02N	50KMT60-01B03N	50KS60-01-2-03N	50KST60-01B06N	50M45-01-1-06N
50KMB36-01B10N	50KMT60-01B04N	50KS90-01-1-02N	50KST60-01C03N	50M45-01-1-08N
50KMB45-01B04N	50KMT90-01A04N	50KS90-01-1-03N	50KST90-01B02N	50M45-01-2-02N
50KMB60-01B03N	50KMT90-01B02N	50KS90-01-1-04N	50KST90-01B03N	50M45-01-2-03N
50KMB90-01B02N	50KMT90-01B03N	50KS90-01-2-02N	50KST90-01C02N	50M45-01-2-04N
50KMB90-01C02N	50KMT90-01C02N	50KS90-01B04N	50KT45-01-1-02N	50M45-01B08N
50KMBPT36-1A10N	50KP36-01-1-05N	50KSP36-01B08N	50L36-01-1-02N	50M60-01-1-02N
50KMBPT36-1B02N	50KP36-01-1-06N	50KSP36-01C04S	50L45-01-1-02N	50M60-01-1-03N
50KMBPT45-1B08N	50KP36-01-1-08N	50KSP45-01A08N	50L45-01-1-05N	50M60-01-1-04N
50KMBPT90-1B02N	50KP36-01-1-10N	50KSP45-01C04N	50L60-01-1-02N	50M60-01-1-05N
50KMBT36-01B02N	50KP36-01-2-05N	50KSP60-01A06N	50L60-01-1-03N	50M60-01-1-06N
50KMBT45-01C04N	50KP36-01B10N	50KSP60-01B03N	50L60-01-1-04N	50M60-01-2-02N
50KMBT60-01B06N	50KP45-01-1-04N	50KSP90-01A03N	50L60-01-2-02N	50M60-01-2-03N
50KMBT90-01B02N	50KP45-01-1-04S	50KSP90-01A04N	50L60-01-2-03N	50M60-01B06N
50KMBT90-01C02N	50KP45-01-2-04N	50KSP90-01B02N	50L90-01-1-03N	50M90-01-1-02N
50KMP36-01B02N	50KP60-01-1-02N	50KSP90-01B03N	50L90-01-1-04N	50M90-01-1-04N
50KMP36-01B05N	50KP60-01-1-03N	50KSPT36-01C03N	50L90-01-2-02N	50M90-01-2-02N
50KMPT36-01A10N	50KP90-01-1-02N	50KSPT36-01C03S	50LL36-01-1-04N	50M90-01B04N
50KMPT36-01B02N	50KP90-01-2-02N	50KSPT36-01C04S	50LL36-01-1-08N	50MB36-01-1-04N
50KMPT36-01B05N	50KPT45-01A08N	50KSPT36-01C05N	50LL36-01-2-02S	50MB36-01-2-03N
50KMPT36-01B09N	50KPT45-01B02N	50KSPT45-01A08N	50LL36-01-2-03S	50MB36-01-2-04N
50KMPT36-01B10N	50KPT45-01B08N	50KSPT45-01B03N	50LL36-01-2-04N	50MB45-01-1-07N
50KMPT45-01B03N	50KPT60-01A06N	50KSPT45-01B04N	50LL36-01-2-05S	50MB60-01-2-02N
50KMPT45-01B04N	50KPT60-01B02N	50KSPT45-01B05N	50M36-01-1-02N	50MB60-01-2-03N

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50MB90-01-1-02N	50MPT45-01A08N	50P36-01-1-07N	50S36-01-2-05N	50SP60-01B06N
50MB90-01-1-03N	50MPT45-01B03N	50P36-01-1-08N	50S36-01-2-05S	50SP90-01-1-02N
50MB90-01-2-02N	50MPT45-01B04N	50P36-01-1-10N	50S36-01B10N	50SP90-01-1-04N
50MBP36-01B02N	50MPT45-01B05N	50P36-01-1-10S	50S45-01-1-03N	50SP90-01-2-02N
50MBP36-01B05N	50MPT45-01B07N	50P36-01-2-04N	50S45-01-1-05N	50SP90-01B04N
50MBPT36-01C05N	50MPT45-01B08N	50P36-01-2-04S	50S45-01-1-06N	50SPT36-01B04N
50MBPT90-01B02N	50MPT60-01B03N	50P36-01-2-05N	50S45-01-1-07N	50SPT36-01B09N
50MBT45-01A08N	50MPT60-01B04N	50P36-01-2-05S	50S45-01-1-08N	50SPT36-01B10N
50MBT45-01B02N	50MPT60-01C03N	50P36-01B10N	50S45-01-2-03N	50SPT36-01B10S
50MBT45-01B05N	50MPT90-01A04N	50P45-01-1-03N	50S60-01-1-02N	50SPT36-01C04N
50MBT90-01A04N	50MPT90-01B02N	50P45-01-1-04N	50S60-01-1-03N	50SPT36-01C04S
50MBT90-01B02N	50MPT90-01B04N	50P45-01-1-05N	50S60-01-1-04N	50SPT36-01C05S
50ML36-01-1-02S	50MPT90-01C02N	50P45-01-1-06N	50S60-01-1-05N	50SPT45-01A08N
50ML45-01-1-02N	50MT36-01-1-02N	50P45-01-1-08N	50S60-01-1-06N	50SPT45-01B02N
50ML60-01-1-02N	50MT36-01-1-03N	50P45-01-2-04N	50S60-01-2-02N	50SPT45-01B03N
50MP36-01-1-02S	50MT36-01-1-04S	50P60-01-1-03N	50S60-01-2-03N	50SPT45-01B05N
50MP36-01-1-03N	50MT36-01-1-05N	50P60-01-1-04N	50S90-01-1-02N	50SPT45-01C04N
50MP36-01-1-04N	50MT36-01-1-06S	50P60-01-1-06N	50S90-01-1-03N	50SPT60-01A06N
50MP36-01-1-05N	50MT36-01-1-08N	50P60-01-2-03N	50S90-01-1-04N	50SPT60-01B03N
50MP36-01-1-06N	50MT36-01-1-08S	50P60-01B06N	50S90-01B04N	50SPT60-01C02N
50MP36-01-1-07N	50MT36-01-1-09S	50P90-01-1-02N	50SP36-01-1-02N	50SPT60-01C03N
50MP36-01-1-08N	50MT36-01-1-10S	50P90-01-1-04N	50SP36-01-1-03N	50SPT90-01C02N
50MP36-01-1-10N	50MT36-01-2-03N	50P90-01-2-02N	50SP36-01-1-04N	50ST36-01-1-03N
50MP36-01-2-03S	50MT36-01-2-03S	50P90-01B04N	50SP36-01-1-06N	50ST36-01-1-03S
50MP36-01-2-04N	50MT45-01-1-02N	50PT36-01-1-02N	50SP36-01-1-08N	50ST36-01-1-05N
50MP36-01-2-04S	50MT45-01-1-03N	50PT36-01-2-05N	50SP36-01-1-10N	50ST36-01-2-03N
50MP36-01-2-05N	50MT45-01-1-04N	50PT36-01B10N	50SP36-01-2-02N	50ST36-01-2-05N
50MP36-01-2-05S	50MT45-01-1-05N	50PT45-01-1-02N	50SP36-01-2-04N	50ST45-01-1-02N
50MP45-01-1-08N	50MT45-01-1-08N	50PT45-01-1-03N	50SP36-01-2-04S	50ST45-01-1-03N
50MP60-01-1-03N	50MT45-01-2-03N	50PT45-01-2-04N	50SP36-01-2-05N	50ST45-01-1-04N
50MP60-01-1-05N	50MT60-01-1-02N	50PT45-01B08N	50SP36-01-2-05S	50ST45-01-1-05N
50MP60-01-1-06N	50MT60-01-1-03N	50PT60-01-2-03N	50SP36-01B10N	50ST45-01-1-08N
50MP60-01-2-03N	50MT60-01-1-04N	50PT60-01B06N	50SP45-01-1-03N	50ST45-01-2-03N
50MP60-01B06N	50MT60-01-1-05N	50PT90-01-1-04N	50SP45-01-1-04N	50ST45-01-2-04N
50MP90-01-1-02N	50MT60-01-1-06N	50PT90-01B04N	50SP45-01-1-05N	50ST45-01B08N
50MP90-01-2-02N	50MT60-01-2-03N	50S36-01-1-02N	50SP45-01-1-06N	50ST60-01-1-02N
50MPT36-01A10S	50MT90-01-1-02N	50S36-01-1-03N	50SP45-01-1-07N	50ST60-01-1-06N
50MPT36-01B03S	50MT90-01-1-03N	50S36-01-1-03S	50SP45-01-1-08N	50ST90-01-1-02N
50MPT36-01B04N	50MT90-01-1-04N	50S36-01-1-04N	50SP45-01-2-03N	50ST90-01-1-04N
50MPT36-01B07N	50MT90-01-2-02N	50S36-01-1-05N	50SP45-01-2-04N	50ST90-01-2-02N
50MPT36-01B07S	50P36-01-1-02N	50S36-01-1-06N	50SP45-01B08N	50ST90-01B04N
50MPT36-01B08N	50P36-01-1-03N	50S36-01-1-08N	50SP60-01-1-02N	513360-10
50MPT36-01B08S	50P36-01-1-04N	50S36-01-1-10N	50SP60-01-1-03N	513360-12-C
50MPT36-01C04S	50P36-01-1-05N	50S36-01-2-03S	50SP60-01-1-06N	513360-12-F
50MPT36-01C05S	50P36-01-1-06N	50S36-01-2-04N	50SP60-01-2-02N	513360-8

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513360-9	51A30-01-1-12N	51CD30-01-2-AJN	51K30-01-1-05S	51KMPT30-01C05S
513361-11	51A30-01-2-03N	51CD30-01-4-AJN	51K30-01-1-06N	51KMPT30-01E02S
513361-12-C	51A30-01-2-03S	51CD30-01-4-AJS	51K30-01-1-07N	51KMT30-01A12N
513374-10	51A30-01-2-04N	51CDP30-01PAJN	51K30-01-1-08N	51KMT30-01B03N
513374-11	51A30-01-2-04S	51CDP30-01PAJS	51K30-01-1-09N	51KMT30-01B11N
513374-12-C	51A30-01-2-06N	51CDP30-01QAJN	51K30-01-1-10S	51KMT30-01C03N
513374-12-F	51A30-01-2-06S	51CDP30-01SAJN	51K30-01-1-12N	51KMT30-01C03S
513374-3	51A30-01-3-03N	51CP30-01-1-04N	51K30-01-2-03N	51KMT30-01C04N
513374-4	51A30-01-3-04N	51CP30-01-1-12N	51K30-01-2-04S	51KMT30-01C05S
513374-6	51A30-01-4-03N	51CP30-01-2-06N	51K30-01-2-05N	51KMT30-01C06N
513374-7	51A30-01-4-03S	51CP30-01-2-06S	51K30-01-2-06N	51KMT30-01C06S
513374-8	51A30-01B12N	51CP30-01-3-04N	51K30-01-3-04N	51KMT30-01E03N
513375-10	51AT30-01-1-03N	51CPT30-01A12S	51K30-01-3-04S	51KP30-01-1-05N
513375-11	51AT30-01-1-04N	51CT30-01-1-02N	51K30-01-4-03N	51KP30-01-1-06N
513375-12-C	51AT30-01-1-12N	51D30-01-1-AJN	51K30-01B12N	51KP30-01-1-07N
513375-7	51AT30-01-2-06N	51D30-01-1-AJS	51K30-01B12S	51KP30-01-1-12N
513375-8	51AT30-01-3-03N	51D30-01-2-AJN	51KM30-01-1-02N	51KP30-01-1-12S
51A22-01-1-03N	51B30-01-1-06N	51D30-01-2-AJS	51KM30-01-1-03N	51KP30-01-2-04N
51A22-01-1-04N	51B30-01-1-11S	51D30-01-3-AJS	51KM30-01-1-05N	51KP30-01-2-05N
51A22-01-1-05N	51B30-01-1-12N	51D30-01-4-AJN	51KM30-01-1-06N	51KP30-01-2-06N
51A22-01-1-05S	51B30-01-4-02S	51DP30-01-1-AJN	51KM30-01-1-08N	51KP30-01-3-04N
51A22-01-1-06N	51BP22-01-1-16N	51DP30-01-1-AJS	51KM30-01-1-11N	51KPT30-01B05N
51A22-01-1-07N	51BP22-01-1-16S	51DP30-01-2-AJN	51KM30-01-1-12N	51KPT30-01B05S
51A22-01-1-08N	51BP30-01-1-10N	51DP30-01-2-AJS	51KM30-01-2-04N	51KPT30-01C05N
51A22-01-1-10N	51BP30-01-3-04N	51DP30-01-3-AJN	51KM30-01-2-05N	51KPT30-01C06N
51A22-01-1-12N	51BP30-01-4-02N	51DP30-01-3-AJS	51KM30-01-2-05S	51KPT30-01D04N
51A22-01-1-13N	51BP30-01-4-02S	51DP30-01-4-AJN	51KM30-01-3-03S	51KS30-01-1-03N
51A22-01-1-13S	51BPT30-01B12N	51E30-01-1-05S	51KM30-01-3-04S	51KS30-01-1-03S
51A22-01-1-14N	51BPT30-01B12S	51E30-01-2-03S	51KM30-01-4-03N	51KS30-01-1-05N
51A22-01-1-16N	51BPT30-01C06N	51E30-01-2-06S	51KM30-01B12N	51KS30-01-1-12S
51A22-01-1-16S	51BSP30-01A12N	51E30-01-4-03N	51KMBP30-01B06N	51KS30-01-2-03N
51A22-01-2-06N	51BSPT22-01B14N	51EM30-01-2-03N	51KMBP30-01B12S	51KS30-01-2-03S
51A22-01-2-07S	51BSPT30-01C02N	51EMBPT30-1C05S	51KMBPT30-1B04N	51KS30-01-2-04N
51A22-01-2-08N	51C30-01-1-04N	51EMBPT30-1C06S	51KMBPT30-1B12N	51KS30-01-2-04S
51A22-01B16N	51C30-01-1-04S	51EMP30-01B04S	51KMBT30-01B05N	51KSP30-01A12S
51A22-01B16S	51C30-01-1-06N	51EP30-01-1-07N	51KMBT30-01C03N	51KSP30-01B03N
51A30-01-1-02N	51C30-01-1-07N	51EP30-01-1-12N	51KMP30-01B03N	51KSP30-01B06N
51A30-01-1-03N	51C30-01-1-09N	51EP30-01-2-06S	51KMP30-01B06N	51KSP30-01B07N
51A30-01-1-04N	51C30-01-2-04N	51ESP30-01B04N	51KMPT30-01A12N	51KSP30-01B10N
51A30-01-1-05N	51C30-01-2-06N	51ESPT30-01B12N	51KMPT30-01A12S	51KSP30-01B11N
51A30-01-1-05S	51C30-01-2-06S	51EST30-01C06N	51KMPT30-01B02N	51KSP30-01B12N
51A30-01-1-06N	51C30-01-4-02S	51K30-01-1-02N	51KMPT30-01B04N	51KSP30-01B12S
51A30-01-1-07N	51C30-01B12S	51K30-01-1-03N	51KMPT30-01B04S	51KSP30-01C05N
51A30-01-1-08N	51CD30-01-1-AJN	51K30-01-1-04N	51KMPT30-01B10N	51KSP30-01C05S
51A30-01-1-11N	51CD30-01-1-AJS	51K30-01-1-05N	51KMPT30-01B11N	51KSP30-01C06N

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51KSP30-01C06S	51M30-01-2-06S	51MPT30-01B07N	51P30-01-2-06N	51SP22-01-2-07N
51KSP30-01D04N	51M30-01-3-02S	51MPT30-01B08N	51P30-01-2-06S	51SP22-01-2-07S
51KSPT30-01A12N	51M30-01-3-03N	51MPT30-01B11N	51P30-01-3-03N	51SP22-01-2-08N
51KSPT30-01B05N	51M30-01-3-03S	51MPT30-01B11S	51P30-01-3-03S	51SP22-01-2-08S
51KSPT30-01B06N	51M30-01-3-04S	51MPT30-01B12N	51P30-01-3-04N	51SP22-01B16N
51KSPT30-01B07N	51M30-01-4-02N	51MPT30-01C04N	51P30-01-3-04S	51SP22-01B16S
51KSPT30-01B08N	51M30-01-4-03N	51MPT30-01C04S	51P30-01-4-02S	51SP30-01-1-02N
51KSPT30-01B10N	51M30-01B12N	51MPT30-01C06N	51P30-01-4-03N	51SP30-01-1-03N
51KSPT30-01B11N	51MB30-01-1-07N	51MPT30-01C06S	51P30-01B12N	51SP30-01-1-04N
51KSPT30-01B12N	51MB30-01-1-10N	51MPT30-01D03S	51P30-01B12S	51SP30-01-1-04S
51KSPT30-01C05S	51MB30-01-4-02N	51MPT30-01D04N	51PT22-01B16N	51SP30-01-1-05N
51KSPT30-01C06N	51MBP30-01A12N	51MPT30-01E02N	51PT22-01B16S	51SP30-01-1-05S
51KSPT30-01D04S	51MBP30-01B03N	51MPT30-01E03N	51PT30-01-3-04N	51SP30-01-1-06N
51KST30-01B03N	51MBP30-01B04S	51MT30-01-1-02N	51S22-01-1-03N	51SP30-01-1-06S
51KST30-01B04N	51MBP30-01B05N	51MT30-01-1-03N	51S22-01-1-08N	51SP30-01-1-08N
51KST30-01B05N	51MBP30-01C04N	51MT30-01-1-09N	51S22-01-1-12N	51SP30-01-1-10N
51KST30-01B12N	51MBP30-01D04N	51MT30-01-1-10S	51S22-01-1-16N	51SP30-01-1-11N
51KST30-01C03N	51MBP30-01D04S	51MT30-01-2-02N	51S22-01-2-08N	51SP30-01-1-12N
51KST30-01C05N	51MBPT30-01B12S	51MT30-01-3-03N	51S22-01B16N	51SP30-01-2-04S
51KST30-01C06S	51MP30-01-1-02N	51MT30-01-4-03S	51S30-01-1-03N	51SP30-01-2-05N
51KST30-01D04S	51MP30-01-1-03N	51MT30-01B12N	51S30-01-1-04N	51SP30-01-2-06N
51KST30-01E02N	51MP30-01-1-03S	51MT30-01B12S	51S30-01-1-04S	51SP30-01-2-06S
51L30-01-2-03S	51MP30-01-1-04N	51P22-01-1-05N	51S30-01-1-06N	51SP30-01-3-03N
51L30-01-4-02N	51MP30-01-1-04S	51P22-01-1-06N	51S30-01-1-06S	51SP30-01-3-03S
51M30-01-1-02N	51MP30-01-1-05N	51P22-01-1-06S	51S30-01-1-08N	51SP30-01-3-04N
51M30-01-1-03N	51MP30-01-1-06N	51P22-01-1-14N	51S30-01-1-08S	51SP30-01-4-02N
51M30-01-1-03S	51MP30-01-1-08N	51P22-01-1-15N	51S30-01-1-09N	51SP30-01-4-03N
51M30-01-1-04N	51MP30-01-1-09N	51P22-01-1-16N	51S30-01-1-10N	51SP30-01B12N
51M30-01-1-04S	51MP30-01-1-10N	51P22-01-1-16S	51S30-01-1-12N	51SPT22-01A16N
51M30-01-1-05N	51MP30-01-1-12N	51P22-01-2-06N	51S30-01-2-03N	51SPT22-01A16S
51M30-01-1-06N	51MP30-01-1-12S	51P22-01-2-08N	51S30-01-2-03S	51SPT22-01B12N
51M30-01-1-07N	51MP30-01-2-04S	51P22-01-2-08S	51S30-01-2-04N	51SPT22-01B14S
51M30-01-1-07S	51MP30-01-2-05N	51P22-01B16N	51S30-01-2-06S	51SPT22-01B16S
51M30-01-1-08N	51MP30-01-2-06N	51P22-01B16S	51S30-01-3-04N	51SPT22-01C02N
51M30-01-1-09N	51MP30-01-2-06S	51P30-01-1-02N	51S30-01-4-02N	51SPT22-01C03N
51M30-01-1-10N	51MP30-01-3-03N	51P30-01-1-05N	51S30-01-4-02S	51SPT22-01C04N
51M30-01-1-12N	51MP30-01-3-03S	51P30-01-1-07N	51S30-01-4-03N	51SPT22-01C05N
51M30-01-1-12S	51MP30-01-3-04N	51P30-01-1-08N	51S30-01-4-03S	51SPT22-01C06N
51M30-01-2-02N	51MP30-01-3-04S	51P30-01-1-11N	51S30-01B12N	51SPT22-01C07N
51M30-01-2-03N	51MP30-01-4-03N	51P30-01-1-12N	51SP22-01-1-08N	51SPT22-01C08N
51M30-01-2-04N	51MP30-01B12S	51P30-01-1-12S	51SP22-01-1-12N	51SPT30-01A12N
51M30-01-2-04S	51MPT30-01A12N	51P30-01-2-04N	51SP22-01-1-14N	51SPT30-01A12S
51M30-01-2-05N	51MPT30-01A12S	51P30-01-2-04S	51SP22-01-1-14S	51SPT30-01B02S
51M30-01-2-05S	51MPT30-01B03N	51P30-01-2-05N	51SP22-01-1-15S	51SPT30-01B03N
51M30-01-2-06N	51MPT30-01B04N	51P30-01-2-05S	51SP22-01-1-16N	51SPT30-01B04N

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51SPT30-01B05N	53HS15-05B24N	53M15-02A24S	53M15-09-1-23N	55P30-01-1-11N
51SPT30-01B05S	53HS15-05B24S	53M15-02B24N	53M15-10-2-11N	55P30-01-2-04N
51SPT30-01B06N	53HS15-06B24N	53M15-02B24S	53M15-10-2-12N	55P30-01-4-03N
51SPT30-01B06S	53HS15-07-2-11N	53M15-03-1-05N	53M15-10A24N	55P30-01A12S
51SPT30-01B08N	53HS15-07-2-12N	53M15-03-1-13S	53M15-12-2-12N	55P36-01-1-04N
51SPT30-01B10S	53HS15-08A24N	53M15-03-1-20N	53M15-12-2-12S	55P36-01-1-09N
51SPT30-01B12N	53HS15-12A24N	53M15-03-1-22N	53M15-12A24N	55P36-01-2-03N
51SPT30-01C03S	53M15-01-10-02N	53M15-03-1-23S	53MS15-01A24N	55P36-01-2-05N
51SPT30-01C04N	53M15-01-1-15S	53M15-03-2-12N	54A-1AL-1AL	55P36-01A10N
51SPT30-01C04S	53M15-01-1-16N	53M15-03-3-08N	54A-1BB-1BF	55S30-01-2-06N
51SPT30-01C05S	53M15-01-1-17N	53M15-03-6-04N	54A-1BG-1BG	55SD30-01-1-AJN
51SPT30-01C06S	53M15-01-1-20N	53M15-03-8-03N	54A-1BH-1BK	55SD30-01-2-AJN
51SPT30-01D04N	53M15-01-1-20S	53M15-03A24N	54A-2AL-2AL	55SD36-01-1-AJN
51ST30-01-3-02N	53M15-01-1-21S	53M15-03B24N	54A-2BF-2BF	55SDP30-01PAJN
51ST30-01-3-03N	53M15-01-1-23S	53M15-03B24S	54D30-01-1-AJN	55SDP30-01QAJS
51ST30-01-3-04N	53M15-01-2-06S	53M15-04-1-16N	54D30-01-2-AJN	55SDP36-01QAJS
53HS15-01-1-17N	53M15-01-2-11N	53M15-04-1-18N	54D30-01-2-AJS	55SP30-01-1-06N
53HS15-01-2-12N	53M15-01-2-11S	53M15-04-1-23S	54D30-03-1-AJN	55SP30-01-1-07N
53HS15-01-4-06N	53M15-01-2-12N	53M15-04-2-09N	54D30-03-2-AJN	55SP36-01-1-02N
53HS15-01-4-06S	53M15-01-3-07N	53M15-04-6-02N	54M-1AL-1AL	55SP36-01-1-06S
53HS15-01A24N	53M15-01-3-08N	53M15-04A24N	54M-1AL-1BA	56A30-01-1-02N
53HS15-01B24N	53M15-01-4-05N	53M15-04B24N	54M-1BC-1BC	56A30-01-1-03N
53HS15-01B24S	53M15-01-4-06N	53M15-04B24S	54M-1CC-1CC	56A30-01-1-04N
53HS15-02-1-21S	53M15-01-8-02N	53M15-05-1-06N	54M-1CE-1CA	56A30-01-1-05N
53HS15-02-1-23S	53M15-01A24N	53M15-05-1-10N	54M30-01-1-05S	56A30-01-1-06N
53HS15-02-2-10N	53M15-01B24N	53M15-05-1-19N	54M30-01-1-06N	56A30-01-1-06S
53HS15-02-2-12N	53M15-01B24S	53M15-05-1-21N	54M30-01-1-10S	56A30-01-1-10N
53HS15-02-6-04N	53M15-02-1-12N	53M15-05-1-23N	54M30-01-2-03N	56A30-01-2-03S
53HS15-02-8-02N	53M15-02-1-13N	53M15-05-4-06N	54M30-03-2-06N	56A30-01-2-04N
53HS15-02A24N	53M15-02-1-16N	53M15-05B24N	55A30-01-2-04N	56A30-01-2-06N
53HS15-02A24S	53M15-02-1-16S	53M15-05B24S	55A36-01-2-02N	56A30-01-2-06S
53HS15-02B24S	53M15-02-1-17N	53M15-06-1-13S	55A36-01-2-03N	56A30-01-4-02N
53HS15-02N02N	53M15-02-12-02N	53M15-06-1-21S	55BSP36-01B02N	56A30-01-4-03N
53HS15-02N02S	53M15-02-1-20N	53M15-06-2-12N	55D30-01-1-AJN	56A30-01-4-03S
53HS15-03-1-12N	53M15-02-1-21N	53M15-06A24N	55D30-01-2-AJN	56A30-01A12N
53HS15-03-1-17N	53M15-02-1-21S	53M15-06B24N	55D30-01-2-AJS	56A30-01A12S
53HS15-03-1-21S	53M15-02-1-22N	53M15-06B24S	55D30-01-4-AJN	56A30-01B12N
53HS15-03-2-11N	53M15-02-2-04S	53M15-07-1-23N	55D30-01-4-AJS	56A30-01B12S
53HS15-03-2-11S	53M15-02-2-10N	53M15-07-2-06N	55D36-01-1-AJN	56A36-01-1-02N
53HS15-03A24N	53M15-02-2-12N	53M15-07B24N	55D36-01-2-AJN	56A36-01-1-02S
53HS15-04-6-02N	53M15-02-3-08N	53M15-08-1-20N	55D36-01-2-AJS	56A36-01-1-03N
53HS15-04A24N	53M15-02-4-04N	53M15-08-2-02N	55DP30-01-1-AJN	56A36-01-1-03S
53HS15-05-2-10N	53M15-02-5-03S	53M15-08-3-02N	55DP30-01-2-AJN	56A36-01-1-04N
53HS15-05-2-12N	53M15-02-8-02N	53M15-08A24N	55DP36-01-1-AJN	56A36-01-1-05N
53HS15-05A24N	53M15-02A24N	53M15-08B24N	55P30-01-1-10N	56A36-01-1-06N

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56A36-01-1-07N	56BS36-01-1-04N	56J36-01-2-03N	56P36-01A10S	56SD30-01-1-AJN
56A36-01-2-02N	56BS36-01-1-05N	56L36-01-2-04N	56P36-01B10N	56SD30-01-1-AJS
56A36-01-2-02S	56BS36-01-1-09N	56P30-01-1-03N	56P36-01B10S	56SD30-01-2-AJN
56A36-01-2-03N	56BS36-01-2-02N	56P30-01-1-04N	56S30-01-1-02N	56SD30-01-2-AJS
56A36-01-2-03S	56BSD30-01PAJN	56P30-01-1-04S	56S30-01-1-02S	56SD30-01-4-AJN
56A36-01-2-04N	56BSD36-01PAJN	56P30-01-1-05N	56S30-01-1-03S	56SD30-01-4-AJS
56A36-01-2-05N	56BSD36-01PAJS	56P30-01-1-06N	56S30-01-1-04N	56SD30S-01PAJN
56A36-01-2-05S	56BSD36-01QAJN	56P30-01-1-06S	56S30-01-1-05N	56SD36-01-1-AJN
56A36-01A10N	56BDSP30-01PAJN	56P30-01-1-07N	56S30-01-1-05S	56SD36-01-1-AJS
56A36-01B10N	56BDSP30-01QAJN	56P30-01-1-08N	56S30-01-1-06N	56SD36-01-2-AJN
56B30-01-1-02N	56BDSP30-01QAJS	56P30-01-1-10N	56S30-01-1-10S	56SD36-01-2-AJS
56B30-01-1-03N	56BDSP30-01SAJN	56P30-01-1-11N	56S30-01-2-02N	56SDP30-01PAJN
56B30-01-2-04N	56BDSP36-01PAJN	56P30-01-1-11S	56S30-01-2-03N	56SDP30-01PAJS
56B30-01-4-02N	56BDSP36-01PAJS	56P30-01-2-03N	56S30-01-2-03S	56SDP30-01QAJN
56B30-01-4-03N	56BDSP36-01QAJN	56P30-01-2-03S	56S30-01-2-04N	56SDP30-01QAJS
56B36-01-1-02N	56BDSP36-01QAJS	56P30-01-2-04N	56S30-01-2-04S	56SDP30-01SAJN
56B36-01-1-03N	56BSP30-01B04N	56P30-01-2-05N	56S30-01-2-05N	56SDP30-01SAJS
56B36-01-2-02N	56BSP30-01B12N	56P30-01-2-05S	56S30-01-2-06S	56SDP36-01PAJN
56B36-01B10N	56BSP30-01C05S	56P30-01-2-06N	56S30-01-4-02N	56SDP36-01PAJS
56B36-01B10S	56BSP30-01C06N	56P30-01-2-06S	56S30-01-4-02S	56SDP36-01QAJN
56BD30-01-1-AJN	56BSP30-01E02N	56P30-01-4-02N	56S30-01-4-03N	56SDP36-01QAJS
56BD30-01-1-AJS	56BSP36-01A10N	56P30-01-4-03N	56S30-01-4-03S	56SDP36S-01PAJN
56BD30-01-4-AJN	56BSP36-01B02N	56P30-01-4-03S	56S30-01A12N	56SDP36S-01PAJS
56BD36-01-1-AJN	56BSP36-01B03N	56P30-01A12N	56S30-01A12S	56SDP36S-01QAJS
56BD36-01-2-AJS	56D30-01-1-AJN	56P30-01A12S	56S30-01B12S	56SP30-01-1-02N
56BDP30-01QAJN	56D30-01-1-AJS	56P30-01B12N	56S30S-01-1-05N	56SP30-01-1-02S
56BDP36-01PAJN	56D30-01-2-AJN	56P30-01B12S	56S30S-01-2-04S	56SP30-01-1-03N
56BP30-01-1-03N	56D30-01-2-AJS	56P36-01-1-02S	56S36-01-1-02N	56SP30-01-1-04N
56BP30-01-1-04N	56D30-01-4-AJN	56P36-01-1-03N	56S36-01-1-03N	56SP30-01-1-05N
56BP30-01-1-07N	56D36-01-1-AJN	56P36-01-1-03S	56S36-01-1-03S	56SP30-01-1-06N
56BP30-01-1-08N	56D36-01-1-AJS	56P36-01-1-04N	56S36-01-1-04N	56SP30-01-1-06S
56BP30-01-1-10N	56D36-01-2-AJN	56P36-01-1-05N	56S36-01-1-05N	56SP30-01-1-07N
56BP30-01-2-03N	56D36-01-2-AJS	56P36-01-1-05S	56S36-01-1-06N	56SP30-01-1-08N
56BP30-01-2-06N	56DP30-01-1-AJN	56P36-01-1-06N	56S36-01-1-06S	56SP30-01-1-10N
56BP30-01-4-02N	56DP30-01-1-AJS	56P36-01-1-06S	56S36-01-2-02N	56SP30-01-1-11N
56BP30-01-4-03N	56DP30-01-2-AJN	56P36-01-1-07N	56S36-01-2-03N	56SP30-01-1-11S
56BP36-01-1-07S	56DP30-01-2-AJS	56P36-01-1-07S	56S36-01-2-03S	56SP30-01-2-02N
56BP36-01B10N	56DP30-01-4-AJN	56P36-01-1-08N	56S36-01-2-04N	56SP30-01-2-03N
56BP36-01B10S	56DP30-01-4-AJS	56P36-01-1-09N	56S36-01-2-04S	56SP30-01-2-03S
56BS30-01-1-02N	56DP36-01-1-AJN	56P36-01-1-09S	56S36-01-2-05N	56SP30-01-2-04N
56BS30-01-1-05N	56DP36-01-1-AJS	56P36-01-2-03N	56S36-01-2-05S	56SP30-01-2-04S
56BS30-01-2-02N	56DP36-01-2-AJN	56P36-01-2-04N	56S36-01A10N	56SP30-01-2-05N
56BS30-01-2-06N	56DP36-01-2-AJS	56P36-01-2-05N	56S36-01B10N	56SP30-01-2-05S
56BS30-01-4-02N	56J36-01-1-04N	56P36-01-2-05S	56S36S-01-1-02N	56SP30-01-2-06N
56BS36-01-1-02N	56J36-01-2-02N	56P36-01A10N	56S36S-01-2-02N	56SP30-01-2-06S

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56SP30-01-4-02N	57HS22-01B16S	57M22-01-1-08N	57M22-04-2-08N	58J8A45-01B07N
56SP30-01-4-02S	57HS22-02-1-10N	57M22-01-1-12N	57M22-04A16N	58J8A45-01B08S
56SP30-01-4-03N	57HS22-02-1-13N	57M22-01-2-08N	57M22-04A16S	58J8A45-01C02N
56SP30-01-4-03S	57HS22-02-2-03N	57M22-01-3-03N	57M22-04B16N	58J8A90-01A04N
56SP30-01A12N	57HS22-02-2-05N	57M22-01-3-04N	57M22-04B16S	58J8A90-01B02N
56SP30-01A12S	57HS22-02-2-06N	57M22-01-4-03S	57M22-05-1-12N	58J8A90-01B03N
56SP30-01B12N	57HS22-02-2-07N	57M22-01-4-04N	57M22-05-1-15S	58J8A90-01B04N
56SP30-01B12S	57HS22-02-2-08N	57M22-01-6-02N	57M22-05A16N	58J8A90-01C02N
56SP30S-01C05S	57HS22-02-4-03N	57M22-01-8-02N	57M22-05B16N	58J8P36-01B05N
56SP36-01-1-02N	57HS22-02-8-02N	57M22-01A16N	57M22-06-1-03N	58J8P36-01C03S
56SP36-01-1-03N	57HS22-02A16N	57M22-01A16S	57M22-06-2-07N	58J8P36-01C05N
56SP36-01-1-03S	57HS22-02A16S	57M22-01B16N	57M22-06-4-02N	58J8P45-01B04N
56SP36-01-1-04N	57HS22-02B16N	57M22-01B16S	57M22-06-4-04N	58J8P45-01B05N
56SP36-01-1-05N	57HS22-03-1-05N	57M22-02-1-04N	57M22-06A16N	58J8P45-01C04S
56SP36-01-1-05S	57HS22-03-1-08N	57M22-02-1-05N	57M22-07-2-05N	58J8P90-01B02N
56SP36-01-1-07N	57HS22-03-1-10N	57M22-02-1-06N	57M22-07A16N	58J9A36-01B02N
56SP36-01-1-09N	57HS22-03-1-14N	57M22-02-1-07N	57M22-07B16N	58J9A36-01B03N
56SP36-01-2-02N	57HS22-03-1-15N	57M22-02-1-10N	57M22-08-2-08N	58J9A36-01B04N
56SP36-01-2-02S	57HS22-03A16N	57M22-02-1-12N	57M22-08A16N	58J9A36-01B05N
56SP36-01-2-03N	57HS22-03A16S	57M22-02-1-13N	57M22-08B16N	58J9A36-01B05S
56SP36-01-2-03S	57HS22-03B16N	57M22-02-1-15N	57M22-09A16N	58J9A36-01C03S
56SP36-01-2-04N	57HS22-03B16S	57M22-02-2-07N	57M22-10-2-08N	58J9A45-01B03N
56SP36-01-2-04S	57HS22-04-1-09N	57M22-02-2-08N	57M22-10A16S	58J9A45-01B05N
56SP36-01-2-05N	57HS22-04-1-10N	57M22-02-3-03N	57M22-12B16N	58J9A45-01C02N
56SP36-01-2-05S	57HS22-04-1-11N	57M22-02-4-04N	58J4A45-01A08N	58J9A45-01C03S
56SP36-01A10N	57HS22-04-1-13N	57M22-02-8-02N	58J4A45-01C02N	58J9A60-01B02N
56SP36-01A10S	57HS22-04-1-13S	57M22-02A16N	58J4A45-01C02S	58J9A60-01B03N
56SP36-01B10N	57HS22-04-4-04N	57M22-02B16N	58J4A45-01C03S	58J9A60-01B04N
56SP36-01B10S	57HS22-04A16N	57M22-03-1-03N	58J8A36-01B02N	58J9A60-01C02N
57HS22-01-1-02N	57HS22-04B16N	57M22-03-1-05N	58J8A36-01B03N	58J9A90-01B02N
57HS22-01-1-07N	57HS22-05-1-03N	57M22-03-1-06N	58J8A36-01B04N	58J9A90-01B03N
57HS22-01-1-07S	57HS22-05-1-04N	57M22-03-1-08N	58J8A36-01B05N	58J9A90-01C02N
57HS22-01-1-08S	57HS22-05-1-06N	57M22-03-1-12N	58J8A36-01B06N	58J9P90-01C02N
57HS22-01-1-11N	57HS22-05-1-07N	57M22-03-1-13N	58J8A36-01B08S	59HS18-01-1-15N
57HS22-01-1-15N	57HS22-05-1-08N	57M22-03-2-07N	58J8A36-01B10N	59HS18-01-1-16N
57HS22-01-1-15S	57HS22-05-1-09N	57M22-03-2-08S	58J8A36-01C02N	59HS18-01-2-05N
57HS22-01-2-04S	57HS22-05-1-12N	57M22-03-3-03N	58J8A36-01C03N	59HS18-01-3-05N
57HS22-01-2-05S	57HS22-05-4-02N	57M22-03-4-04N	58J8A36-01C03S	59HS18-01A20N
57HS22-01-2-07N	57HS22-05A16N	57M22-03-8-02N	58J8A36-01C04N	59HS18-01A20S
57HS22-01-2-07S	57HS22-06-1-12N	57M22-03A16N	58J8A45-01A08N	59HS18-01B20N
57HS22-01-2-08N	57HS22-08A16S	57M22-03B16N	58J8A45-01A08S	59HS18-01B20S
57HS22-01-3-03N	57HS22-12A16N	57M22-03B16S	58J8A45-01B02N	59HS18-02-1-18N
57HS22-01-4-04N	57M22-01-1-02N	57M22-04-1-06N	58J8A45-01B04N	59HS18-02-2-10N
57HS22-01A16N	57M22-01-1-06N	57M22-04-1-09N	58J8A45-01B04S	59HS18-02-4-05N
57HS22-01B16N	57M22-01-1-07N	57M22-04-1-13N	58J8A45-01B05N	59HS18-02A20N

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59HS18-02B20N	59M18-06A20N	71A30-03B12S	71AD30-02-1-AJN	71ADF36-01QAJN
59HS18-03-4-04N	59M18-07A20N	71A30-04-1-06S	71AD30-02-1-AJS	71ADF36-01QAJN
59HS18-03A20N	59M18-08-1-17N	71A30-04-1-10N	71AD30-02-2-AJN	71ADF36-02PAJN
59HS18-04-1-10S	59M18-08-1-18N	71A30-04-1-11S	71AD30-02-2-AJS	71ADF36-02PAJS
59HS18-04-5-03N	59M18-09-1-18N	71A30-04-2-03N	71AD30-02-3-AJN	71ADF36-02QAJN
59HS18-04A20N	59M18-10-2-10S	71A30-04-2-05N	71AD30-03-1-AJN	71ADF36-03PAJN
59HS18-04B20S	59M18-10A20N	71A30-04-2-06N	71AD30-03-2-AJN	71ADF36-03QAJN
59HS18-05-1-19N	59M18-12-2-10N	71A30-04-3-02N	71AD30-04-1-AJN	71ADF36-04PAJN
59HS18-05-2-10S	71A30-01-1-02N	71A30-04B12N	71AD30-04-2-AJN	71ADF36-04QAJN
59HS18-05-4-05N	71A30-01-1-04N	71A30-05-2-03N	71AD30-04-2-AJS	71ADF36-05PAJN
59HS18-05A20N	71A30-01-1-05S	71A30-06-1-09N	71AD30-04-4-AJN	71AF30-01-1-03N
59HS18-05B20N	71A30-01-1-06N	71A30-06-2-06N	71AD30-05-1-AJN	71AF30-01-1-04N
59HS18-06-2-10S	71A30-01-1-06S	71A30-06A12N	71AD30-06-2-AJN	71AF30-01-2-03S
59HS18-07-1-18N	71A30-01-2-04N	71A30-08A12N	71AD30-06-2-AJS	71AF30-01-2-04N
59HS18-07-2-10S	71A30-01-3-02N	71A30-09-1-02N	71AD30-12-1-AJN	71AF30-01-2-06N
59HS18-08-2-10S	71A30-01-3-03N	71A36-01-1-02N	71AD36-01-1-AJN	71AF30-01-2-06S
59HS18-10A20N	71A30-01-3-03S	71A36-01-1-02S	71AD36-01-1-AJS	71AF30-01A12N
59HS18-11-2-08N	71A30-01-3-04N	71A36-01-1-03N	71AD36-01-2-AJN	71AF30-01B12N
59M18-01-1-02N	71A30-01-4-02N	71A36-01-1-03S	71AD36-02-1-AJN	71AF30-01B12S
59M18-01-1-03N	71A30-01-4-03N	71A36-01-2-04N	71AD36-02-1-AJS	71AF30-02-1-05S
59M18-01-1-15N	71A30-01-4-03S	71A36-01B10S	71AD36-02-2-AJN	71AF30-02-1-06S
59M18-01-1-16N	71A30-01-6-02N	71A36-02-1-03N	71AD36-02-2-AJS	71AF30-02-1-07N
59M18-01-1-16S	71A30-01-6-02S	71A36-02-1-04N	71AD36-03-1-AJN	71AF30-02-1-07S
59M18-01-1-17N	71A30-02-1-04N	71A36-02-1-06N	71AD36-03-2-AJN	71AF30-02-2-03N
59M18-01-1-18N	71A30-02-1-10N	71A36-02-1-07N	71AD36-04-1-AJN	71AF30-02-2-05N
59M18-01-2-10N	71A30-02-1-11N	71A36-02-2-03S	71AD36-05-1-AJN	71AF30-02-2-05S
59M18-01-9-02N	71A30-02-2-05N	71A36-02-2-04N	71AD36-08-1-AJN	71AF30-02-2-06N
59M18-01A20N	71A30-02-2-06N	71A36-02-2-05N	71AD36-10-1-AJN	71AF30-02-2-06S
59M18-01B20N	71A30-02-3-03N	71A36-02A10N	71AD36-3118	71AF30-02A12S
59M18-02-10-02N	71A30-02-3-04N	71A36-02B10N	71ADF30-01PAJN	71AF30-02B12N
59M18-02-1-12N	71A30-02-4-02N	71A36-03-2-05N	71ADF30-01PAJS	71AF30-02B12S
59M18-02-1-17N	71A30-02-4-02S	71A36-03A10N	71ADF30-01QAJN	71AF30-03-1-07S
59M18-02A20N	71A30-02-4-03N	71A36-03B10N	71ADF30-01QAJN	71AF30-03-2-04N
59M18-02B20N	71A30-02-6-02N	71A36-04-2-02N	71ADF30-02PAJN	71AF30-03-2-06N
59M18-03-1-17N	71A30-02A12N	71A36-04A10N	71ADF30-02PAJS	71AF30-03-2-06S
59M18-03-2-10N	71A30-02B12N	71A36-05A10S	71ADF30-02QAJN	71AF30-03A12N
59M18-03A20N	71A30-03-1-04N	71A36-06A10N	71ADF30-02QAJN	71AF30-03A12S
59M18-03B20N	71A30-03-1-06N	71A36-08-2-02N	71ADF30-03PAJN	71AF30-04-2-06N
59M18-04-1-16N	71A30-03-1-08S	71A36-11-1-04N	71ADF30-03QAJN	71AF30-04A12N
59M18-04-5-04N	71A30-03-1-09N	71AD30-01-1-AJN	71ADF30-04PAJN	71AF30-04A12S
59M18-04A20N	71A30-03-2-06N	71AD30-01-1-AJS	71ADF30-04QAJN	71AF30-04B12N
59M18-04B20N	71A30-03-3-04N	71AD30-01-2-AJN	71ADF30-07PAJN	71AF30-05A12N
59M18-05-1-17N	71A30-03-4-03N	71AD30-01-2-AJS	71ADF30-08PAJN	71AF30-10A12N
59M18-05-4-05N	71A30-03-4-03S	71AD30-01-3-AJN	71ADF36-01PAJN	71AF36-01-1-03N
59M18-05A20N	71A30-03A12N	71AD30-01-4-AJN	71ADF36-01PAJS	71AF36-01-1-04N

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71AF36-01-1-05N	71ASF30-04B12N	71B30-02-2-04N	71B30-08A12N	71BD30-01-1-AJN
71AF36-01-1-06N	71ASF36-01B02N	71B30-02-2-04S	71B30-10B12N	71BD30-01-1-AJS
71AF36-01-1-06S	71ASF36-01B05N	71B30-02-2-06N	71B30-12-1-02N	71BD30-01-2-AJN
71AF36-01-2-05N	71ASF36-01C05N	71B30-02-2-06S	71B30-12-1-05N	71BD30-01-2-AJS
71AF36-01-2-05S	71ASF36-02B10S	71B30-02-3-02N	71B30-12A12N	71BD30-01-3-AJN
71AF36-01A10N	71B30-01-1-03N	71B30-02-3-03N	71B36-01-1-02N	71BD30-01-3-AJS
71AF36-01B10N	71B30-01-1-03S	71B30-02-3-04N	71B36-01-1-03N	71BD30-01-4-AJN
71AF36-02-1-05S	71B30-01-1-04N	71B30-02-4-02N	71B36-01-1-03S	71BD30-01-4-AJS
71AF36-02-2-05N	71B30-01-1-05N	71B30-02-4-03N	71B36-01-1-04N	71BD30-02-1-AJN
71AF36-02A10N	71B30-01-1-06N	71B30-02-5-02N	71B36-01-1-04S	71BD30-02-1-AJS
71AF36-02A10S	71B30-01-1-06S	71B30-02-6-02N	71B36-01-1-05N	71BD30-02-2-AJN
71AF36-03-2-05N	71B30-01-1-07N	71B30-02A12N	71B36-01-1-06N	71BD30-02-2-AJS
71AF36-04-1-08N	71B30-01-1-09S	71B30-02A12S	71B36-01-1-07N	71BD30-02-3-AJN
71AF36-04A10N	71B30-01-1-10N	71B30-02B12S	71B36-01-1-08N	71BD30-02-3-AJS
71AF36-05-2-03N	71B30-01-1-10S	71B30-03-1-09N	71B36-01-1-08S	71BD30-02-4-AJN
71AF36-08A10N	71B30-01-1-11S	71B30-03-1-11N	71B36-01-2-02N	71BD30-02-4-AJS
71AP30-01-1-06N	71B30-01-2-03N	71B30-03-2-03N	71B36-01A10N	71BD30-03-1-AJN
71AS30-01-1-03N	71B30-01-2-04N	71B30-03-2-04N	71B36-01A10S	71BD30-03-1-AJS
71AS30-01-1-06N	71B30-01-2-04S	71B30-03-2-05N	71B36-01B10N	71BD30-03-2-AJN
71AS30-01-2-05N	71B30-01-2-05N	71B30-03-3-03N	71B36-01B10S	71BD30-03-2-AJS
71AS30-01-4-03N	71B30-01-2-05S	71B30-03-3-04N	71B36-02-1-04S	71BD30-03-3-AJN
71AS30-01-5-02N	71B30-01-2-06N	71B30-03-4-02N	71B36-02-1-07N	71BD30-03-4-AJN
71AS30-01-6-02N	71B30-01-2-06S	71B30-03-4-03N	71B36-02-1-08S	71BD30-04-1-AJN
71AS30-02-2-05N	71B30-01-3-02N	71B30-03A12N	71B36-02-2-02N	71BD30-04-1-AJS
71AS30-02-3-02N	71B30-01-3-03N	71B30-03B12N	71B36-02-2-03S	71BD30-04-2-AJN
71AS30-02-3-04N	71B30-01-3-03S	71B30-03B12S	71B36-02-2-04N	71BD30-04-2-AJS
71AS30-02A12N	71B30-01-3-04N	71B30-04-1-05S	71B36-02-2-05N	71BD30-04-3-AJN
71AS30-02B12N	71B30-01-3-04S	71B30-04-1-07N	71B36-02A10N	71BD30-04-4-AJN
71AS30-03-1-08N	71B30-01-4-02N	71B30-04-2-06S	71B36-02B10N	71BD30-04-4-AJS
71AS30-03A12N	71B30-01-4-03N	71B30-04-3-03N	71B36-02B10S	71BD30-05-1-AJN
71AS30-05-1-04N	71B30-01-4-03S	71B30-04-3-04N	71B36-03-2-05N	71BD30-05-3-AJN
71AS36-01-1-02S	71B30-01-5-02N	71B30-04A12N	71B36-03A10N	71BD30-06-1-AJN
71AS36-01-1-03N	71B30-01-6-02N	71B30-04B12S	71B36-04-1-02N	71BD30-06-2-AJN
71AS36-01-1-03S	71B30-01-6-02S	71B30-05-1-10S	71B36-04-1-05N	71BD30-07-1-AJN
71AS36-01-2-02N	71B30-01A12N	71B30-05-2-06N	71B36-04-2-02N	71BD30-07-1-AJS
71AS36-02A10S	71B30-01B12N	71B30-05A12N	71B36-04-2-03N	71BD30-08-1-AJN
71AS36-04-2-05N	71B30-01B12S	71B30-05B12N	71B36-04-2-04N	71BD30-12-1-AJN
71ASF30-01B04N	71B30-02-1-03N	71B30-06-2-06N	71B36-04A10N	71BD36-01-1-AJN
71ASF30-01B09N	71B30-02-1-04N	71B30-06-2-06S	71B36-05A10N	71BD36-01-1-AJS
71ASF30-01B12N	71B30-02-1-04S	71B30-06B12N	71B36-06-1-06N	71BD36-01-2-AJN
71ASF30-01C03N	71B30-02-1-06N	71B30-06B12S	71B36-08A10N	71BD36-01-2-AJS
71ASF30-02B03N	71B30-02-1-07N	71B30-07-1-04N	71B36-09-1-07N	71BD36-02-1-AJN
71ASF30-02B09N	71B30-02-1-08N	71B30-08-1-10N	71B36-10-1-04N	71BD36-02-1-AJS
71ASF30-02B12N	71B30-02-1-09N	71B30-08-2-04N	71B36-12-1-02N	71BD36-02-2-AJN
71ASF30-03C02N	71B30-02-1-11N	71B30-08-2-06N	71B36-12-1-08N	71BD36-02-2-AJS

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71BD36-03-1-AJN	71BDF36-05PAJS	71BF30-03-1-10N	71BF36-04-1-05N	71BS30-04-1-08N
71BD36-03-1-AJS	71BDF36-05QAJN	71BF30-03-1-11N	71BF36-04-1-07N	71BS30-04-1-10N
71BD36-03-2-AJN	71BDF36-06PAJN	71BF30-03-2-03N	71BF36-04-1-08N	71BS30-04-4-02N
71BD36-04-1-AJN	71BDF36-06QAJN	71BF30-03-2-04N	71BF36-04A10N	71BS30-04A12N
71BD36-04-1-AJS	71BDF36-07QAJN	71BF30-03A12N	71BF36-08A10N	71BS30-06-1-07N
71BD36-05-1-AJN	71BDF36-08PAJN	71BF30-03B12N	71BF36-10B10S	71BS30-06-1-08N
71BD36-06-1-AJN	71BDF36-11PAJN	71BF30-03B12S	71BS30-01-1-02N	71BS30-08A12N
71BD36-06-2-AJN	71BF30-01-1-03N	71BF30-04-1-11N	71BS30-01-1-04N	71BS30-12A12N
71BD36-08-1-AJN	71BF30-01-1-04N	71BF30-04A12N	71BS30-01-1-05N	71BS36-01-1-02N
71BD36-3119	71BF30-01-1-06N	71BF30-04A12S	71BS30-01-1-06N	71BS36-01-1-03N
71BDF30-01PAJN	71BF30-01-1-08N	71BF30-04B12N	71BS30-01-1-08S	71BS36-01-1-04N
71BDF30-01PAJS	71BF30-01-1-11S	71BF30-04B12S	71BS30-01-1-09N	71BS36-01-1-04S
71BDF30-01QAJN	71BF30-01-2-03N	71BF30-05-1-11N	71BS30-01-1-10N	71BS36-01-1-05N
71BDF30-01QAJS	71BF30-01-2-03S	71BF30-05-2-03N	71BS30-01-2-02N	71BS36-01-1-06N
71BDF30-02PAJN	71BF30-01-2-04N	71BF30-05-2-06N	71BS30-01-2-03N	71BS36-01-1-07N
71BDF30-02PAJS	71BF30-01-2-05N	71BF30-05-2-06S	71BS30-01-2-03S	71BS36-01-1-07S
71BDF30-02QAJN	71BF30-01-2-05S	71BF30-05B12N	71BS30-01-2-04N	71BS36-01-1-08N
71BDF30-02QAJS	71BF30-01-2-06N	71BF30-06-1-08N	71BS30-01-2-04S	71BS36-01-2-02N
71BDF30-03PAJN	71BF30-01-2-06S	71BF30-06-1-10N	71BS30-01-2-05N	71BS36-01-2-04N
71BDF30-03PAJS	71BF30-01A12N	71BF30-06-2-06N	71BS30-01-2-06S	71BS36-01A10N
71BDF30-03QAJN	71BF30-01A12S	71BF30-06A12N	71BS30-01-3-04N	71BS36-01B10N
71BDF30-03QAJS	71BF30-01B12N	71BF30-07-1-08N	71BS30-01-4-03N	71BS36-02-1-05N
71BDF30-04PAJN	71BF30-01B12S	71BF30-08-2-06N	71BS30-01-6-02N	71BS36-02-1-06N
71BDF30-04PAJS	71BF30-02-1-03N	71BF30-10A12N	71BS30-01B12N	71BS36-02-1-08N
71BDF30-04QAJN	71BF30-02-1-06S	71BF36-01-1-02N	71BS30-02-1-07N	71BS36-02-2-04N
71BDF30-05PAJN	71BF30-02-1-07N	71BF36-01-1-04N	71BS30-02-1-11N	71BS36-02A10N
71BDF30-05QAJN	71BF30-02-1-08S	71BF36-01-1-05N	71BS30-02-2-03S	71BS36-04A10N
71BDF30-05QAJS	71BF30-02-1-09N	71BF36-01-2-03N	71BS30-02-2-04N	71BS36-06-1-06N
71BDF30-06PAJN	71BF30-02-1-09S	71BF36-01-2-04N	71BS30-02-2-04S	71BS36-06-2-05N
71BDF30-06PAJS	71BF30-02-1-11N	71BF36-01-2-05N	71BS30-02-2-05N	71BS36-06A10N
71BDF30-06QAJN	71BF30-02-1-11S	71BF36-01-2-05S	71BS30-02-2-06N	71BS36-08-1-08N
71BDF30-07PAJN	71BF30-02-2-02N	71BF36-01A10N	71BS30-02-2-06S	71BS36-08-2-05S
71BDF30-07QAJN	71BF30-02-2-03N	71BF36-01B10N	71BS30-02-3-03N	71BS36-12B10S
71BDF30-08QAJN	71BF30-02-2-03S	71BF36-02-1-04N	71BS30-02-3-04N	71BSF30-01A12N
71BDF30-11PAJN	71BF30-02-2-04N	71BF36-02-1-06N	71BS30-02-4-03N	71BSF30-01B05N
71BDF36-01PAJN	71BF30-02-2-05N	71BF36-02-2-04N	71BS30-02A12N	71BSF30-01B09N
71BDF36-01QAJN	71BF30-02-2-05S	71BF36-02-2-05N	71BS30-03-1-08N	71BSF30-01B10N
71BDF36-02PAJN	71BF30-02-2-06N	71BF36-02-2-05S	71BS30-03-1-08S	71BSF30-01C04N
71BDF36-02PAJS	71BF30-02-2-06S	71BF36-02A10N	71BS30-03-2-06N	71BSF30-02C03N
71BDF36-02QAJN	71BF30-02A12N	71BF36-02B10N	71BS30-03-3-04N	71BSF30-02C04N
71BDF36-02QAJS	71BF30-02B12N	71BF36-03-1-05N	71BS30-03-5-02N	71BSF30-02C05N
71BDF36-03PAJN	71BF30-02B12S	71BF36-03-1-06S	71BS30-03A12N	71BSF30-02C06N
71BDF36-03QAJN	71BF30-03-1-06N	71BF36-03-2-03N	71BS30-03B12S	71BSF30-03A12N
71BDF36-04PAJN	71BF30-03-1-07N	71BF36-03-2-04N	71BS30-04-1-05N	71BSF30-03B11N
71BDF36-04QAJN	71BF30-03-1-08S	71BF36-03-2-05N	71BS30-04-1-07N	71BSF30-03C03N

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71BSF30-04A12N	71C30-1BJ-2BJ	71E30-02B12N	71J36-02-2-02N	71L36-03-2-04N
71BSF30-04B12N	71C30-1BK-1BK	71E30-03-1-09S	71J36-02-2-03N	71L36-04-2-02N
71BSF30-04C04N	71C30-1BL-1BL	71E30-03-1-10N	71J36-02-2-03S	71L36-05-1-02N
71BSF30-05C04N	71C30-1CE-1BJ	71E30-03A12N	71J36-02-2-04N	71L36-05-1-03N
71BSF30-06B06N	71C30-1CP-1CP	71E30-03B12S	71J36-03-2-02S	71L36-05-1-05N
71BSF30-08A12N	71C30-1CQ-2CR	71E30-04-2-06S	71J36-05-2-03N	71L36-06-2-02N
71BSF36-01B04N	71C30-1EB-1EB	71E36-01-1-03N	71J36-05-2-05N	71L36-07-2-02S
71BSF36-01B05N	71C30-2AL-2AL	71E36-02A10N	71L30-01-1-07N	71LL36-01-2-03N
71BSF36-02B08N	71C30-3CC-2AL	71E36-06-2-04N	71L30-01-2-04N	71MA30-02-4-03N
71BSF36-02C03S	71C36-1AJ-1AJ	71ED30-01-1-AJN	71L30-01-2-05N	71MA30-03-1-07N
71BSF36-02C05S	71C36-1BA-1BA	71ED30-01-1-AJS	71L30-01-3-02N	71MA30-04A12N
71BSF36-03A10N	71C36-1BA-1BJ	71ED30-01-2-AJN	71L30-01-4-02N	71MA36-01-1-03N
71BSF36-03C03N	71C36-1BB-1BB	71ED30-02-1-AJN	71L30-01-4-03N	71MA36-02-1-04S
71BSF36-03C05N	71C36-1BD-1AJ	71ED30-02-1-AJS	71L30-01-4-03S	71MAF30-01A12N
71BSF36-04B06N	71C36-1BG-1BG	71ED30-02-2-AJN	71L30-01-5-02N	71MAS30-01A12N
71BSF36-05C02N	71C36-1BJ-1BA	71ED30-02-2-AJS	71L30-02-1-03N	71MAS30-01B07N
71BSF36-06B05N	71C36-1BJ-1BJ	71ED30-03-1-AJS	71L30-02-2-02N	71MAS30-01B08N
71BSF36-08B08N	71C36-1BJ-1CP	71ED30-04-1-AJN	71L30-02-2-03N	71MAS30-01C03N
71BSF36-08B10N	71CF30-1AL-1AL	71ED30-06-1-AJN	71L30-02-2-04N	71MAS30-01C04N
71BT36-01-1-04N	71CF30-1BB-1BL	71EDF30-01PAJN	71L30-02-2-06N	71MAS30-01D03S
71BT36-01-2-04N	71CF30-1BC-1BL	71EDF30-01PAJS	71L30-03-1-02N	71MAS30-01G02N
71BT36-01-2-05N	71CF30-1BL-1BL	71EDF30-01QAJS	71L30-03-1-03N	71MAS30-02B08N
71BT36-02-1-04N	71CF30-1BZ-2BZ	71EDF30-02PAJN	71L30-03-2-04N	71MAS30-02B10N
71BT36-02-1-06S	71CF30-1CB-2CD	71EDF30-03PAJS	71L30-04-1-02N	71MAS30-02B12N
71BT36-02-2-04N	71CF30-1CE-1CE	71EDF36-01PAJS	71L30-04-1-06N	71MAS30-03B09N
71BT36-02-2-05N	71CF30-2AL-2AL	71EF30-01-2-05S	71L30-04-4-02N	71MAS30-03E03N
71BT36-02A10N	71CF30-2BF-1BF	71EF30-01-2-06S	71L30-05-2-05N	71MAS30-04B08N
71BT36-03-1-06S	71CF30-3BZ-1CQ	71EF30-01A12S	71L36-01-1-02N	71MAS36-01A10N
71BT36-03A10N	71CF36-1AJ-1AJ	71EF30-01B12N	71L36-01-1-03N	71MAS36-01B06N
71BT36-04-1-06N	71CF36-1BC-1AJ	71EF30-01B12S	71L36-01-1-04N	71MAS36-01B09N
71BT36-04-2-02N	71CF36-1BW-1BW	71EF30-02-1-09S	71L36-01-2-02N	71MAS36-01C03N
71C30-1AL-1AL	71CF36-2BJ-2BJ	71EF30-02A12N	71L36-01-2-03S	71MAS36-02A10S
71C30-1AZ-1AZ	71CF36-2BW-1BW	71EF30-02B12N	71L36-01B10S	71MAS36-02C05N
71C30-1AZ-1BZ	71CF36-2CN-1BM	71EF30-02B12S	71L36-02-1-02N	71MAS36-04C05N
71C30-1BA-1AL	71CF36-3CD-3CD	71EF30-04-2-03N	71L36-02-1-03N	71MASF36-03C02N
71C30-1BA-1BL	71E30-01-1-07N	71EF30-04-2-06S	71L36-02-1-04N	71MB30-01-1-02N
71C30-1BC-1AL	71E30-01-1-07S	71EF30-06A12N	71L36-02-1-06N	71MB30-01-2-02N
71C30-1BC-1BL	71E30-01-2-05S	71EF36-01B10N	71L36-02-2-02N	71MB30-01-2-06N
71C30-1BD-1AL	71E30-01-2-06N	71ES30-01-2-04S	71L36-02-2-03N	71MB30-01-4-02N
71C30-1BD-1BL	71E30-01-3-04S	71ES36-01A10N	71L36-02-2-03S	71MB30-01-4-03N
71C30-1BE-1AL	71E30-01B12S	71ESF30-03C06N	71L36-02-2-05N	71MB30-01-6-02N
71C30-1BE-1BL	71E30-02-1-07S	71ESF30-05C04N	71L36-02B10N	71MB30-01A12N
71C30-1BF-1AL	71E30-02-1-09S	71ESF36-01B05S	71L36-03-1-03S	71MB30-02-3-03N
71C30-1BG-1BG	71E30-02-1-11S	71J30-03-5-02N	71L36-03-1-06N	71MB30-02-4-03N
71C30-1BJ-1BL	71E30-02-2-06S	71J36-01-2-02N	71L36-03-2-02N	71MB30-02-6-02N

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71MB30-03-1-04N	71MBS30-02C06N	75AP36-01-1-07N	75CP36-01-2-05N	M3786/13-0046
71MB30-03-2-03N	71MBS30-02C06S	75AP36-01-1-08N	75CP36-01A10N	M3786/13-0047
71MB30-03-2-06N	71MBS30-02D04N	75AP36-01-2-04N	75CP36-01B10N	M3786/13-0048
71MB30-03-3-04N	71MBS30-03B12N	75AP36-01-2-05N	77P36-01-1-03N	M3786/13-0049
71MB30-03-4-02N	71MBS30-04B09N	75AP36-01A10N	77P36-01-1-04N	M3786/13-0051
71MB30-03-4-03N	71MBS30-04C06S	75AP36-01B10N	77P36-01-1-05N	M3786/13-0052
71MB30-04-2-03S	71MBS30-04D04N	75BF36-01-1-03N	77P36-01-1-08N	M3786/13-0053
71MB36-01-1-05N	71MBS30-05B12N	75BF36-01-1-04N	77SP36-01-1-02N	M3786/13-0057
71MB36-02-1-04N	71MBS30-05D03S	75BF36-01-1-05N	77SP36-01-1-03N	M3786/13-0062
71MB36-02-1-05N	71MBS36-01B04N	75BF36-01-1-06N	77SP36-01-1-07N	M3786/13-0074
71MB36-02-2-03N	71MBS36-01B05N	75BF36-01-1-07N	77SP36-01-1-10N	M3786/13-0075
71MB36-02A10N	71MBS36-01B06N	75BF36-01-1-08N	77SP36-01-2-04N	M3786/13-0079
71MB36-02A10S	71MBS36-01B08N	75BF36-01-2-03N	77SP36-01-2-05N	M3786/13-0081
71MB36-03-1-08N	71MBS36-01C02N	75BF36-01-2-04N	77SP36-01B10N	M3786/13-0086
71MB36-03A10N	71MBS36-01C03S	75BF36-01-2-05N	77SPT36-01A10N	M3786/13-0090
71MBF30-01C03S	71MBS36-01C05N	75BF36-01A10N	77SPT36-01B02N	M3786/13-0091
71MBF36-02A10N	71MBS36-02A10N	75BF36-01B10N	77SPT36-01B03N	M3786/13-0095
71MBF36-02A10S	71MBS36-02B06N	75BP36-01-1-02N	77SPT36-01B04N	M3786/13-0096
71MBS30-01B02N	71MBS36-02B08N	75BP36-01-1-03N	77SPT36-01B05N	M3786/13-0128
71MBS30-01B03N	71MBS36-02C02N	75BP36-01-1-04N	77SPT36-01B07N	M3786/13-0220
71MBS30-01B04N	71MBS36-02C03N	75BP36-01-1-05N	77SPT36-01B08N	M3786/13-0224
71MBS30-01B05N	71MBS36-02C05N	75BP36-01-1-06N	77SPT36-01B10N	M3786/13-0230
71MBS30-01B06N	71MBS36-03A10N	75BP36-01-1-07N	77SPT36-01C03N	M3786/13-0232
71MBS30-01B08N	71MBS36-03C03N	75BP36-01-1-08N	77SPT36-01C04N	M3786/13-0235
71MBS30-01B12N	71MBS36-03C05N	75BP36-01-2-03N	77SPT36-01C05N	M3786/13-0253
71MBS30-01C03N	71MBS36-05C05N	75BP36-01-2-04N	M3786/13-0001	M3786/13-0255
71MBS30-01C03S	71MBS36-05C05S	75BP36-01-2-05N	M3786/13-0002	M3786/13-0257
71MBS30-01C04N	71MBSF36-01B05N	75BP36-01A10N	M3786/13-0004	M3786/13-0302
71MBS30-01C05N	71MBSF36-02B06N	75BP36-01B10N	M3786/13-0006	M3786/13-0366
71MBS30-01C06N	71MBSF36-02B07S	75CF36-01-1-03N	M3786/13-0007	M3786/13-0438
71MBS30-01C06S	71MLL36-01C02N	75CF36-01-1-05N	M3786/13-0008	M3786/13-0447
71MBS30-01D03N	75AF36-01-1-03N	75CF36-01-1-07N	M3786/13-0011	M3786/13-0448
71MBS30-01D04N	75AF36-01-1-05N	75CF36-01-1-08N	M3786/13-0015	M3786/13-0449
71MBS30-01E02S	75AF36-01-1-06N	75CF36-01-2-03N	M3786/13-0017	M3786/13-0454
71MBS30-01E03N	75AF36-01-1-08N	75CF36-01-2-05N	M3786/13-0022	M3786/13-0456
71MBS30-01E03S	75AF36-01-2-02N	75CF36-01A10N	M3786/13-0023	M3786/13-0485
71MBS30-01G02N	75AF36-01-2-03N	75CF36-01B10N	M3786/13-0025	M3786/13-0488
71MBS30-02A12N	75AF36-01-2-04N	75CP36-01-1-03N	M3786/13-0029	M3786/13-0500
71MBS30-02B04N	75AF36-01A10N	75CP36-01-1-04N	M3786/13-0034	M3786/13-0745
71MBS30-02B06N	75AF36-01B10N	75CP36-01-1-05N	M3786/13-0038	M3786/13-0746
71MBS30-02B09N	75AP36-01-1-02N	75CP36-01-1-06N	M3786/13-0039	M3786/13-0747
71MBS30-02B12N	75AP36-01-1-03N	75CP36-01-1-08N	M3786/13-0040	M3786/13-0749
71MBS30-02C03N	75AP36-01-1-04N	75CP36-01-1-09N	M3786/13-0042	M3786/13-0758
71MBS30-02C05N	75AP36-01-1-05N	75CP36-01-2-02N	M3786/13-0043	M3786/13-0760
71MBS30-02C05S	75AP36-01-1-06N	75CP36-01-2-03N	M3786/13-0045	M3786/13-0761

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M3786/13-0763	M3786/35-010	M3786/36-0127	M3786/39-2EA	M3786/4-0006
M3786/13-0877	M3786/35-011	M3786/36-0149	M3786/39-2GD	M3786/4-0006GL
M3786/13-0880	M3786/35-013	M3786/36-0176	M3786/39-2RA	M3786/4-0007
M3786/13-0893	M3786/35-015	M3786/36-0178	M3786/39-4JB	M3786/4-0008
M3786/20-001	M3786/35-019	M3786/36-0179	M3786/39-4RA	M3786/4-0010
M3786/20-004	M3786/35-020	M3786/36-0180	M3786/39-4RB	M3786/4-0011
M3786/20-010	M3786/35-021	M3786/36-0198	M3786/39-4VA	M3786/4-0012
M3786/20-011	M3786/35-023	M3786/36-0204	M3786/39-4VB	M3786/4-0013
M3786/20-012	M3786/35-024	M3786/36-0229	M3786/39-4WA	M3786/4-0015
M3786/20-014	M3786/35-025	M3786/36-0230	M3786/39-4ZC	M3786/4-0016
M3786/20-015	M3786/35-026	M3786/36-0239	M3786/39-5UA	M3786/4-0020
M3786/20-016	M3786/35-027	M3786/36-0241	M3786/39-5WA	M3786/4-0021
M3786/20-017	M3786/35-028	M3786/36-0254	M3786/39-8BA	M3786/4-0022
M3786/20-018	M3786/35-029	M3786/36-0276	M3786/39-8GB	M3786/4-0024
M3786/20-020	M3786/35-030	M3786/36-0284	M3786/39-JND	M3786/4-0025
M3786/20-021	M3786/35-031	M3786/36-0325	M3786/39-JSF	M3786/4-0027
M3786/20-023	M3786/35-032	M3786/36-0530	M3786/39-JWA	M3786/4-0028
M3786/20-024	M3786/35-033	M3786/36-0562	M3786/39-KED	M3786/4-0029
M3786/20-025	M3786/35-035	M3786/36-0597	M3786/39-KFD	M3786/4-0030
M3786/20-026	M3786/35-037	M3786/36-0666	M3786/39-KVA	M3786/4-0032
M3786/20-035	M3786/35-039	M3786/36-0683	M3786/39-LAA	M3786/4-0033
M3786/20-037	M3786/35-040	M3786/36-0861	M3786/39-LCA	M3786/4-0034
M3786/20-038	M3786/35-045	M3786/36-0867	M3786/39-LDA	M3786/4-0035
M3786/20-039	M3786/35-048	M3786/36-0874	M3786/39-LEA	M3786/4-0036
M3786/20-040	M3786/35-055	M3786/36-0875	M3786/39-LFC	M3786/4-0037
M3786/20-041	M3786/35-057	M3786/36-0876	M3786/39-LGC	M3786/4-0038
M3786/20-043	M3786/35-058	M3786/36-0882	M3786/39-LJG	M3786/4-0042
M3786/20-044	M3786/35-060	M3786/36-0886	M3786/39-LMC	M3786/4-0042L
M3786/20-045	M3786/35-062	M3786/36-0894	M3786/39-LMF	M3786/4-0043
M3786/20-046	M3786/35-063	M3786/36-0899	M3786/39-LNG	M3786/4-0044
M3786/20-051	M3786/35-075	M3786/36-0901	M3786/39-LPA	M3786/4-0046
M3786/20-052	M3786/35-076	M3786/36-0905	M3786/39-LRF	M3786/4-0047
M3786/20-056	M3786/35-079	M3786/36-0909	M3786/39-LVA	M3786/4-0050
M3786/20-315	M3786/35-080	M3786/36-0910	M3786/39-LWC	M3786/4-0051
M3786/20-316	M3786/35-084	M3786/36-0925	M3786/39-MQA	M3786/4-0052
M3786/20-317	M3786/35-085	M3786/36-0927	M3786/39-NBF	M3786/4-0053
M3786/20-324	M3786/35-093	M3786/36-0935	M3786/39-NFB	M3786/4-0055
M3786/20-325	M3786/36-0003	M3786/36-0947	M3786/39-NQB	M3786/4-0055L
M3786/20-326	M3786/36-0015	M3786/36-0953	M3786/39-PGH	M3786/4-0056
M3786/20-336	M3786/36-0023	M3786/36-0961	M3786/39-QPC	M3786/4-0058
M3786/20-AHBL	M3786/36-0032	M3786/36-1005	M3786/4-0002	M3786/4-0059
M3786/20-ATCD	M3786/36-0041	M3786/36-1071	M3786/4-0003	M3786/4-0064
M3786/35-007	M3786/36-0075	M3786/36-1080	M3786/4-0004	M3786/4-0065
M3786/35-008	M3786/36-0085	M3786/36-1083	M3786/4-0004GL	M3786/4-0066
M3786/35-009	M3786/36-0103	M3786/36-1084	M3786/4-0005	M3786/4-0070

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M3786/4-0072G	M3786/4-0371	M3786/4-0881	M3786/4-1157GL	M3786/4-3115
M3786/4-0073	M3786/4-0379	M3786/4-0881L	M3786/4-1165L	M3786/4-3120
M3786/4-0076	M3786/4-0384	M3786/4-0883	M3786/4-1227G	M3786/4-3120GL
M3786/4-0077	M3786/4-0389	M3786/4-0884	M3786/4-1230	M3786/4-3129
M3786/4-0079	M3786/4-0397	M3786/4-0884L	M3786/4-1233L	M3786/4-3137
M3786/4-0080	M3786/4-0410	M3786/4-0885L	M3786/4-1234	M3786/4-3160
M3786/4-0081	M3786/4-0416	M3786/4-0887	M3786/4-1236	M3786/4-3178
M3786/4-0082	M3786/4-0423	M3786/4-0890	M3786/4-1247L	M3786/4-3187
M3786/4-0087	M3786/4-0443	M3786/4-0895	M3786/4-1253L	M3786/4-3208
M3786/4-0094	M3786/4-0444	M3786/4-0897	M3786/4-1256L	M3786/4-3267
M3786/4-0099	M3786/4-0482	M3786/4-0902	M3786/4-3002	M3786/4-3343
M3786/4-0115GL	M3786/4-0570	M3786/4-0904	M3786/4-3003	M3786/4-3345
M3786/4-0116	M3786/4-0580	M3786/4-0909	M3786/4-3003GL	M3786/4-3348
M3786/4-0120	M3786/4-0590	M3786/4-0924	M3786/4-3004	M3786/4-3358
M3786/4-0124	M3786/4-0591	M3786/4-0945	M3786/4-3004GL	M3786/4-3371
M3786/4-0136	M3786/4-0593	M3786/4-0946	M3786/4-3010	M3786/4-3374
M3786/4-0169	M3786/4-0594	M3786/4-0947	M3786/4-3011	M3786/4-3375
M3786/4-0170	M3786/4-0599	M3786/4-0948	M3786/4-3012	M3786/4-3384
M3786/4-0171	M3786/4-0609	M3786/4-0949	M3786/4-3016	M3786/4-3397
M3786/4-0172	M3786/4-0612	M3786/4-0957	M3786/4-3017	M3786/4-3456
M3786/4-0173	M3786/4-0618	M3786/4-0962L	M3786/4-3018	M3786/4-3786
M3786/4-0178	M3786/4-0630	M3786/4-0963	M3786/4-3019	M3786/4-3865GL
M3786/4-0182	M3786/4-0638	M3786/4-0963L	M3786/4-3024	M3786/4-3865L
M3786/4-0189	M3786/4-0639	M3786/4-0970	M3786/4-3028	M3786/4-3866GL
M3786/4-0205	M3786/4-0642	M3786/4-0973	M3786/4-3033	M3786/4-3867
M3786/4-0206	M3786/4-0644	M3786/4-1026	M3786/4-3035	M3786/4-3868
M3786/4-0211	M3786/4-0650	M3786/4-1027L	M3786/4-3036	M3786/4-3872
M3786/4-0219	M3786/4-0652	M3786/4-1028L	M3786/4-3038	M3786/4-3874
M3786/4-0228	M3786/4-0777	M3786/4-1031	M3786/4-3040	M3786/4-3876
M3786/4-0236	M3786/4-0779	M3786/4-1035	M3786/4-3041	M3786/4-3882GL
M3786/4-0300	M3786/4-0866	M3786/4-1037	M3786/4-3042	M3786/4-3888
M3786/4-0337	M3786/4-0867	M3786/4-1038	M3786/4-3043	M3786/4-3894L
M3786/4-0338	M3786/4-0867GL	M3786/4-1039	M3786/4-3044	M3786/4-3895
M3786/4-0339	M3786/4-0869	M3786/4-1040	M3786/4-3047	M3786/4-4027
M3786/4-0339GL	M3786/4-0870	M3786/4-1046	M3786/4-3050	M3786/4-4041
M3786/4-0340	M3786/4-0871	M3786/4-1145	M3786/4-3059	M3786/4-4145
M3786/4-0343	M3786/4-0872	M3786/4-1146	M3786/4-3060	M3786/4-4146
M3786/4-0345	M3786/4-0873	M3786/4-1147	M3786/4-3063	M3786/4-4149
M3786/4-0351	M3786/4-0873L	M3786/4-1148GL	M3786/4-3077	M3786/4-4225
M3786/4-0354GL	M3786/4-0874	M3786/4-1149L	M3786/4-3085G	M3786/4-4230
M3786/4-0358	M3786/4-0875	M3786/4-1150	M3786/4-3091	M3786/4-4231
M3786/4-0363	M3786/4-0876	M3786/4-1150L	M3786/4-3092	M3786/4-5001
M3786/4-0364	M3786/4-0876GL	M3786/4-1151	M3786/4-3094	M3786/4-5002
M3786/4-0365	M3786/4-0877	M3786/4-1152	M3786/4-3104	M3786/4-5003
M3786/4-0368	M3786/4-0878	M3786/4-1155	M3786/4-3113	M3786/4-5003L

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M3786/4-5004	M3786/4-5048	M3786/4-5249	M3786/4-5867	M3786/4-6068
M3786/4-5004GL	M3786/4-5049	M3786/4-5250	M3786/4-5868GL	M3786/4-6145
M3786/4-5005	M3786/4-5051	M3786/4-5256	M3786/4-5869	M3786/4-6146
M3786/4-5006	M3786/4-5053	M3786/4-5277	M3786/4-5870	M3786/4-6147
M3786/4-5006G	M3786/4-5055	M3786/4-5337	M3786/4-5871	M3786/4-6150
M3786/4-5006L	M3786/4-5058	M3786/4-5338	M3786/4-5872	M3786/4-6151
M3786/4-5007	M3786/4-5059	M3786/4-5339	M3786/4-5872GL	M3786/4-6154
M3786/4-5008	M3786/4-5059G	M3786/4-5343	M3786/4-5873	M3786/4-7080
M3786/4-5010	M3786/4-5060	M3786/4-5345	M3786/4-5874	M3786/4-7104
M3786/4-5011	M3786/4-5060G	M3786/4-5347	M3786/4-5875	M3786/4-7107L
M3786/4-5012	M3786/4-5062	M3786/4-5348	M3786/4-5876	M3786/4-7108
M3786/4-5013	M3786/4-5063	M3786/4-5351	M3786/4-5877	M3786/4-7112
M3786/4-5014	M3786/4-5065	M3786/4-5352	M3786/4-5878	M3786/4-7122
M3786/4-5015	M3786/4-5068	M3786/4-5353	M3786/4-5879	M3786/4-7122L
M3786/4-5016	M3786/4-5071	M3786/4-5354	M3786/4-5882	M3786/4-7125
M3786/4-5017G	M3786/4-5072	M3786/4-5355	M3786/4-5882L	
M3786/4-5018	M3786/4-5072G	M3786/4-5358	M3786/4-5884	
M3786/4-5019	M3786/4-5074	M3786/4-5362	M3786/4-5886	
M3786/4-5019GL	M3786/4-5074G	M3786/4-5366	M3786/4-5886L	
M3786/4-5020	M3786/4-5076	M3786/4-5369	M3786/4-5887	
M3786/4-5021	M3786/4-5077	M3786/4-5371	M3786/4-5888	
M3786/4-5022	M3786/4-5077GL	M3786/4-5373	M3786/4-5889	
M3786/4-5024	M3786/4-5079	M3786/4-5375	M3786/4-5891	
M3786/4-5026	M3786/4-5080	M3786/4-5386	M3786/4-5893	
M3786/4-5026G	M3786/4-5081	M3786/4-5388	M3786/4-5903	
M3786/4-5027	M3786/4-5082	M3786/4-5390	M3786/4-5906	
M3786/4-5028	M3786/4-5086	M3786/4-5395	M3786/4-5945	
M3786/4-5028G	M3786/4-5088	M3786/4-5396	M3786/4-5954	
M3786/4-5029	M3786/4-5096	M3786/4-5401	M3786/4-5955	
M3786/4-5029G	M3786/4-5099	M3786/4-5410	M3786/4-5958	
M3786/4-5029GL	M3786/4-5104	M3786/4-5453	M3786/4-5959	
M3786/4-5030	M3786/4-5107	M3786/4-5464	M3786/4-5964	
M3786/4-5033	M3786/4-5120	M3786/4-5466	M3786/4-5970	
M3786/4-5034	M3786/4-5126	M3786/4-5479	M3786/4-5971	
M3786/4-5036	M3786/4-5130	M3786/4-5483	M3786/4-5975	
M3786/4-5037	M3786/4-5141	M3786/4-5548	M3786/4-6025L	
M3786/4-5038	M3786/4-5146	M3786/4-5549	M3786/4-6029	
M3786/4-5040	M3786/4-5149	M3786/4-5567	M3786/4-6031	
M3786/4-5041	M3786/4-5160	M3786/4-5568	M3786/4-6033	
M3786/4-5042	M3786/4-5171	M3786/4-5570	M3786/4-6038	
M3786/4-5042GL	M3786/4-5180	M3786/4-5572	M3786/4-6040	
M3786/4-5043	M3786/4-5182	M3786/4-5731	M3786/4-6041	
M3786/4-5044	M3786/4-5186	M3786/4-5865	M3786/4-6045	
M3786/4-5044GL	M3786/4-5227	M3786/4-5866	M3786/4-6047	
M3786/4-5046	M3786/4-5233	M3786/4-5866GL	M3786/4-6053L	

List of Pushbutton Switches Included in Product Advisory Notice 1241

2201	30-05-04-502-04	39-1	46-01-05-500-03	46-200 BLK
2202	30-05-04-502-05	39-101	46-01-05-500-05	46-200 RED
4001	30-05-04-502-06	39-101-EW	46-01-05-500-06	46-200-A-01
4002	30-05-04-502-07	39-102	46-01-05-500-07	46-200-A-03
07-21	30-1	39-103	46-01-07-500-03	46-200-A-07
07-22	30-15	39-12	46-01-07-500-05	46-201 BLK
07-26 BLK	30-15-EW	39-12-EW	46-01-08-500-01	46-201 RED
07-26 RED	30-16 BLK	39-138 BLK	46-01-08-500-03	46-201-A-03
07-7	30-16 RED	39-138 RED	46-01-08-500-04	46-260 BLK
07-8	30-16 RED-E	39-1-EW	46-01-08-500-07	46-260 RED
10-09	30-16 RED-EW	39-2	46-01-09-500-01	46-270 BLK
10-09UL	30-17 BLK	39-201 RED	46-01-09-500-04	46-270 BLK-E
10-10	30-17 BLK-E	39-204 RED	46-05-05-502-01	46-270 RED
10-100	30-17 RED	39-24	46-05-05-502-03	46-270 RED-E
10-101	30-1-E	39-24-EW	46-05-05-502-04	46-271 BLK
10-10UL	30-1-EW	39-2-E	46-05-05-502-05	46-271 RED
23-1	30-1UL	39-3	46-05-05-502-06	46-502-A-03
23-1-E	30-2	39-351 BLK	46-05-05-502-07	
23-4	30-251 BLK	39-351 BLK-EW	46-05-07-502-01	
23-4-E	30-251 BLK-E	39-351 RED	46-05-07-502-03	
30-001-A-01	30-251 BLK-EW	39-351 RED-EW	46-05-07-502-04	
30-001-A-03	30-251 RED	39-352 BLK	46-05-07-502-05	
30-001-A-04	30-251 RED-EW	39-352 BLK-E	46-05-07-502-07	
30-001-A-06	30-252 BLK	39-352 BLK-EW	46-05-08-502-01	
30-001-A-07	30-252 RED	39-352 RED	46-05-08-502-03	
30-01-01-500-01	30-252 RED-EW	39-3-EW	46-05-08-502-06	
30-01-01-500-03	30-2-EW	39-401 BLK	46-05-08-502-07	
30-01-01-500-04	30-2UL	39-401 RED	46-05-09-502-07	
30-01-01-500-05	30-3	39-405 BLK	46-101 BLK	
30-01-01-500-07	30-32 BLK	39-405 RED	46-101 RED	
30-01-04-500-01	30-32 RED	39-424 BLK	46-102 BLK	
30-01-04-500-03	30-32 RED-E	39-424 RED	46-102 RED	
30-01-04-500-05	30-37	39-501 BLK	46-110 BLK	
30-01-04-500-06	30-37-E	39-501 RED	46-110 RED	
30-01-04-500-07	30-37-EW	39-503 BLK	46-111 BLK	
30-017-A-03	30-3-E	39-503 RED	46-111 RED	
30-017-A-04	30-3-EW	39-601 BLK	46-111-A-03	
30-05-01-502-01	30-3UL	39-601 RED	46-150 BLK	
30-05-01-502-03	30-6	39-701	46-150 BLK-E	
30-05-01-502-04	30-601 BLK	39-701-EW	46-150 RED	
30-05-01-502-05	30-601 RED	39-702	46-150 RED-E	
30-05-01-502-06	30-601 RED-E	39-702-E	46-150 RED-EW	
30-05-01-502-07	30-601-A-03	39-702-EW	46-151 BLK	
30-05-04-502-01	30-601-A-07	4001UL	46-151 BLK-E	
30-05-04-502-03	30-6UL	4002UL	46-151 RED	



Intuitive Human Interface Solutions

Device Under Test:
Multiple

Environmental Test:
Thermal Shock, Thermal Shock MIL, Salt Fog 48 Hrs, Salt Fog 96 Hrs

Physical Test:
Sinusoidal Vibration, Mechanical Shock, Rotational Life, Mounting Strength,
Label Adhesion

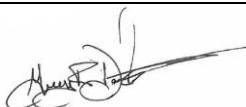
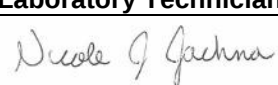
Test Report Number:	SP03-128
Test Start Date:	October 7, 2014
Test Completion Date:	December 22, 2014
Test Facility:	Grayhill Inc. La Grange, IL Facility
Test Requested By:	Troy Naumes
Test Performed By:	 Greg Dombrowski Laboratory Technician
Report Written By:	 Greg Dombrowski Laboratory Technician
Report Approved By:	 Nicole Jachna Quality Lab Manager

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1.0 REVISION HISTORY

Revision	Date	Written By	Description
A	01/12/2015	G. Dombrowski	New

2.0 SUMMARY

2.1. PURPOSE

Qualify sulfamate nickel testing

2.2. REQUIREMENTS & METHODS

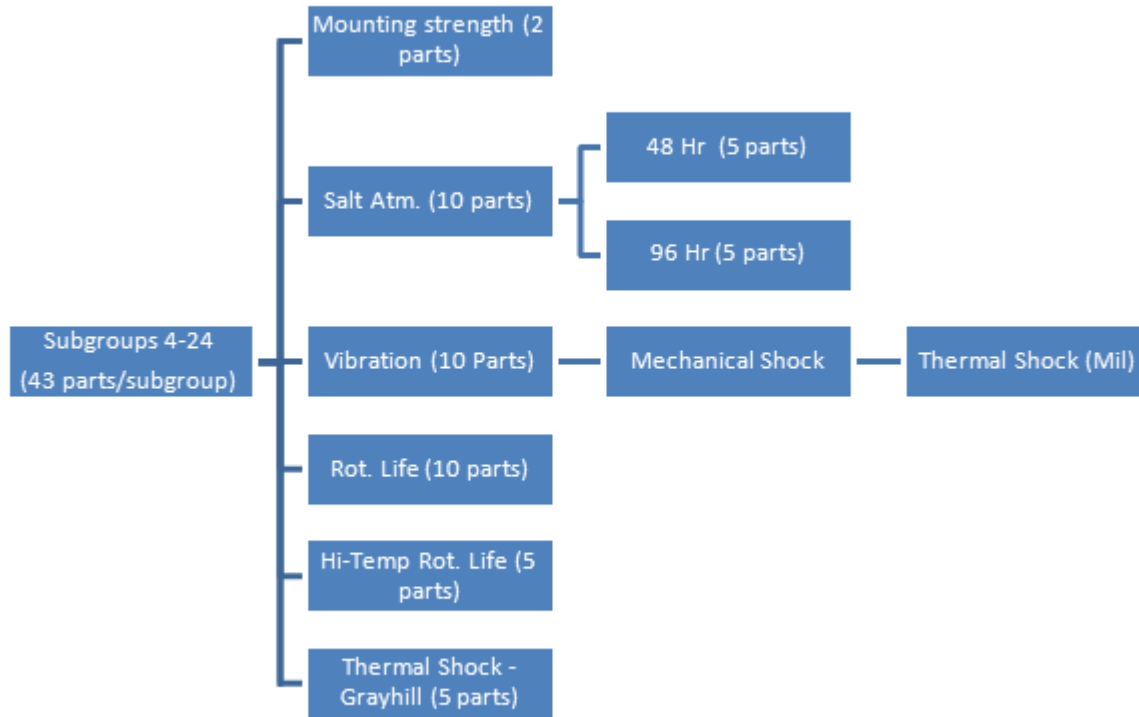
Tests to be performed to flow chart of report.

2.3. TEST SUMMARY

Table 1 – Test Summary

Test Description	Basic Standard	Test Results	Test Date	Test Location
Group A				
Mounting Strength	MIL-DTL-3786J 4.8.3.3	PASS	12/22/2014	Grayhill, Inc.
Group B				
48 Hour Salt Fog	MIL-STD-810G Method 509.4	PASS	10/07/2014 – 10/09/2014	Grayhill, Inc.
96 Hour Salt Fog	MIL-STD-810G Method 509.4	PASS	10/07/2014 - 10/11/2014	Grayhill, Inc.
Group C				
Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD-202G 201A	PASS	11/12/2014 – 11/21/2014	Grayhill, Inc.
Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD-202G 213B	PASS	11/24/2014 – 12/12/2014	Grayhill, Inc.
Thermal Shock (MIL)	MIL-STD-202G 107 Test Condition A	PASS	12/19/2014	Grayhill, Inc.
Group D				
Life (Rotational)	MIL-DTL-3786J 4.8.18 MIL-STD-202G 206	PASS	10/27/2014 – 12/11/2014	Grayhill, Inc.
Group E				
Life at temperature (Rotational)	MIL-DTL-3786J 4.8.18 MIL-STD-202G 206	PASS	11/21/2014 – 12/08/2014	Grayhill, Inc.
Group F				
Thermal Shock (Grayhill)	Grayhill Custom	PASS	12/04/2014 – 12/18/2014	Grayhill, Inc.

3.0 FLOW CHART



4.0 MOUNTING TORQUE

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Mounting Strength	MIL-DTL-3786J 4.8.3.3	71A30-01-1-12N-C-NI	1-3	Grayhill Inc.	12/22/2014
		77P36-01-1-10N-NI	1-3		
		51A30-01-1-10N-NI	1-3		
		50A36-01-1-10N-NI	1-3		
		26ASD22-01-1-AJS-NI	1-3		
		56A36-01-1-10N-C-NI	1-3		
		50YY50812-NI	1-3		
		75BP36-01-1-10N-C-NI	1-3		
		38-401-BLK	1-3		

4.1. PURPOSE

The purpose for this test is to determine if the DUT can withstand the maximum torque directly applied to the nuts.

4.2. TEST SETUP DETAILS

1. Mount DUT onto a metal brackets whose hole is the recommended size for the DUT.
2. Use standard nut and lock washer for testing.
3. Use torque wrench to tighten the nut to the maximum allowable torque.
4. Inspect the DUT for any visible damage.
5. Perform functional tests after mounting.
6. Re-mount and torque nut until breakage or damage occurs and record FT-lbs.

Table 2 - Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-400	Torque Wrench	CAL-36/4	Sturttvant Richmond	04/ 2015

Table 3 – Mounting Torque Test Conditions

Test Condition	Units	Parameters
Quantity		57
Operational Mode		Unpowered
Maximum Mounting Torque	In-LB	15

4.3. TEST SETUP PHOTO

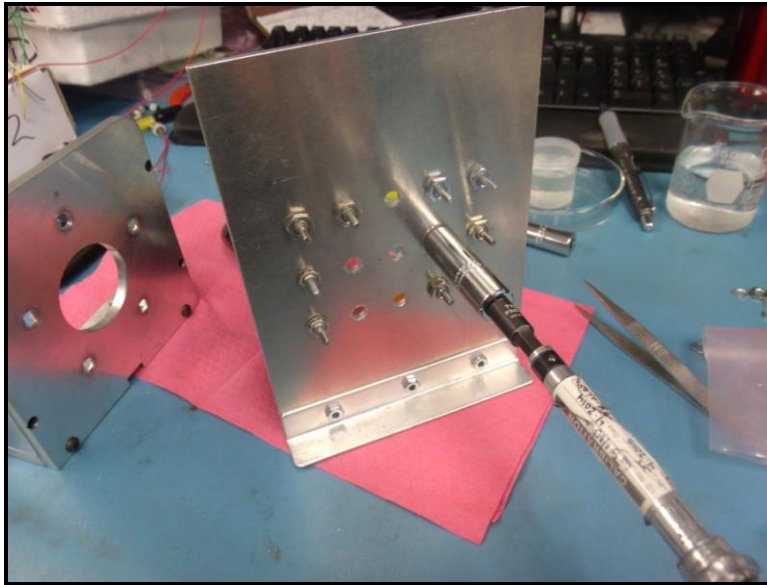


Figure 1 – Mounting Torque test setup

4.4. ACCEPTANCE CRITERIA

The DUT must have no part breakage and no disassembly of parts. The DUT must be functionally tested and operate as intended after test.

4.5. TEST RESULTS

There was no sign of part breakage or disassembly of parts for Max torque of 15 FT-lbs. The DUT were mechanically and electrically operative.

Table 4 – Test Results

DUT	Initial 15 FT-lbs	Failed FT-lbs
71A30-01-1-12N-C-NI	PASS	34
51A30-01-1-10N-NI	PASS	36
50A36-01-1-10N-NI	PASS	36
26ASD22-01-1-AJS-NI	PASS	34
56A36-01-1-10N-C-NI	PASS	34
50YY50812-NI	PASS	34
75BP36-01-1-10N-C-NI	PASS	36
38-401-BLK	PASS	30

5.0 SALT FOG (MIL-STD-810G, METHOD 509.4)

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Salt Fog	MIL-STD-810G Method 509.4	71A30-01-1-12N-C-NI	9-13	Grayhill Inc.	10/07/2014 – 10/09/2014
		77P36-01-1-10N-NI	9-13		
		51A30-01-1-10N-NI	9-13		
		50A36-01-1-10N-NI	9-13		
		26ASD22-01-1-AJS-NI	9-13		
		56A36-01-1-10N-C-NI	9-13		
		50YY50812-NI	9-13		
		75BP36-01-1-10N-C-NI	9-13		
		75AY23083-NI	9-13		
		38-401-BLK	9-13		

5.1. PURPOSE

The Salt Fog method is performed to determine the effectiveness of protective coatings and finished on materials. It may also be applied to determine the effects of salt deposits on the physical and electrical aspects of DUT.

5.2. TEST SETUP DETAILS

1. Prepare a 5 +/-1% solution by dissolving 5 parts by weight of salt in 95 parts by weight of water.
2. Adjust to and maintain the solution at a specific gravity by using the measured temperature and density of the salt solution.
3. Maintain the pH of the salt solution between 6.5 and 7.2.
4. Set the test chamber to 35C and condition the DUT for at least 2 hours before introducing the salt fog.
5. Atomize a salt solution into the test chamber for a period of 48 hours.
6. Dry the DUT at standard ambient temperatures and a relative humidity of 50% for 24 hours.
7. Perform physical and electrical.
8. Rinse or use a gentle wash the DUT in running water and conduct the corrosion examination.
9. Perform functional test.

Table 5 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-115	Salt Fog Chamber	MX9204	Associated Environmental System	04/2015
GT-401	Pressure Gauge	595-05	Ashcroft	04/2015
GT-110	PH Meter	HI 98108	PHEP+	10/2015
NA	Gravity meters	NA	NA	NA
NA	Graduated Cylinders	100: 2ml	Azcon	NA

Table 6 - Test Conditions

Test Condition	Units	Parameters
Quantity	DUT	100
Duration	Hours	48
Salt Solution	parts	5 ± 1 parts per 95 parts water by mass
Type of Water		Distilled or De-ionized water
Duration	hours	96
pH Levels		6.5 to 7.2
Temperature	°C	35
Volume of solution measured per hour	mL	1.0 to 2.0 mL

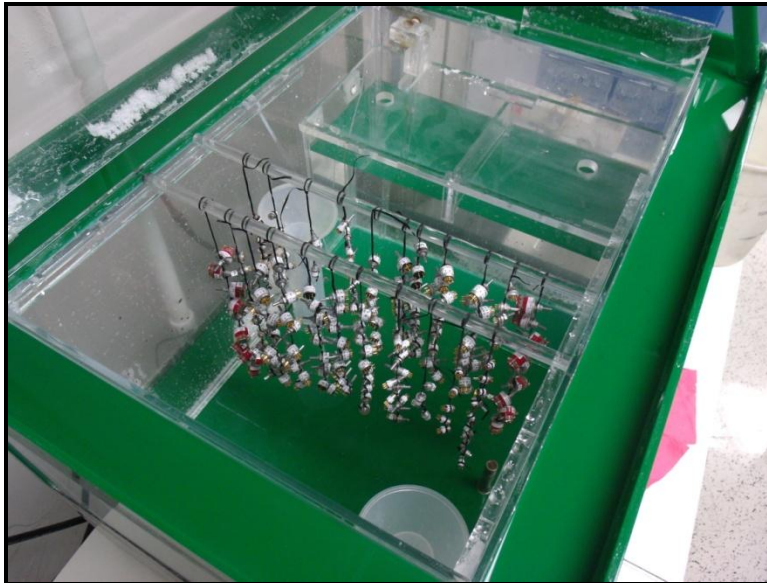
5.3. TEST SETUP PHOTOS**Figure 2– Salt Fog Test Setup**



Figure 3– DUT after 48 hours Salt Fog and 24 hours drying
(STD plating on the left and NI plating on the right)

5.4. ACCEPTANCE CRITERIA

The DUT shall satisfactorily withstand the salt fog conditions specified without physical damage. The DUT shall be fully functional after the test.

5.5. TEST RESULTS

There was no visible corrosion, seal break down, or material breakdown on any DUT. The DUT exhibited normal posttest operation.

Table 7 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
77P36-01-1-10N-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
51A30-01-1-10N-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
50A36-01-1-10N-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
26ASD22-01-1-AJS-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
56A36-01-1-10N-C-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
50YY50812-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
75BP36-01-1-10N-C-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
75AY23083-NI	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014
38-401-BLK	Salt Fog 48 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/09/2014

6.0 SALT FOG 96 Hrs (MIL-STD-810G, METHOD 509.4)

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Salt Fog	MIL-STD-810G Method 509.4	71A30-01-1-12N-C-NI	4-8	Grayhill Inc.	10/07/2014 – 10/11/2014
		77P36-01-1-10N-NI	4-8		
		51A30-01-1-10N-NI	4-8		
		50A36-01-1-10N-NI	4-8		
		26ASD22-01-1-AJS-NI	4-8		
		56A36-01-1-10N-C-NI	4-8		
		50YY50812-NI	4-8		
		75BP36-01-1-10N-C-NI	4-8		
		75AY23083-NI	4-8		
		38-401-BLK	4-8		

6.1. PURPOSE

The Salt Fog method is performed to determine the effectiveness of protective coatings and finished on materials. It may also be applied to determine the effects of salt deposits on the physical and electrical aspects of DUT.

6.2. TEST SETUP DETAILS

1. Prepare a 5 +/-1% solution by dissolving 5 parts by weight of salt in 95 parts by weight of water.
2. Adjust to and maintain the solution at a specific gravity by using the measured temperature and density of the salt solution.
3. Maintain the pH of the salt solution between 6.5 and 7.2.
4. Set the test chamber to 35C and condition the DUT for at least 2 hours before introducing the salt fog.
5. Atomize a salt solution into the test chamber for a period of 96 hours.
6. Dry the DUT at standard ambient temperatures and a relative humidity of 50% for 24 hours.
7. Perform physical and electrical.
8. Rinse or use a gentle wash the DUT in running water and conduct the corrosion examination.
9. Perform functional test.

Table 8 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-115	Salt Fog Chamber	MX9204	Associated Environmental System	04/2015
GT-401	Pressure Gauge	595-05	Ashcroft	04/2015
GT-110	PH Meter	HI 98108	PHEP+	10/2015
NA	Gravity meters	NA	NA	NA
NA	Graduated Cylinders	100: 2ml	Azcon	NA

Table 9 - Test Conditions

Test Condition	Units	Parameters
Quantity	DUT	100
Duration	Hours	96
Salt Solution	parts	5 ± 1 parts per 95 parts water by mass
Type of Water		Distilled or De-ionized water
Duration	hours	96
pH Levels		6.5 to 7.2
Temperature	°C	35
Volume of solution measured per hour	mL	1.0 to 2.0 mL

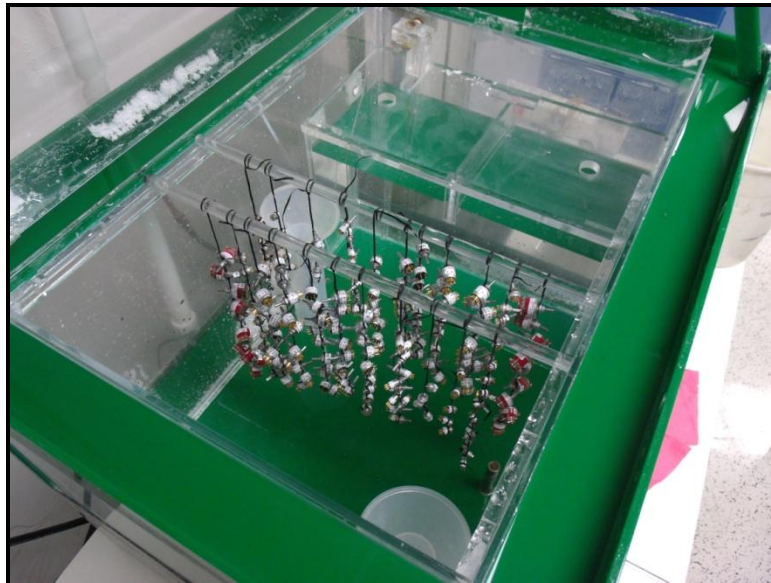
6.3. TEST SETUP PHOTOS**Figure 4– Salt Fog Test Setup**



Figure 5– DUT after 96 hours Salt Fog and 24 hours drying
(STD plating on the left and NI plating on the right)

6.4. ACCEPTANCE CRITERIA

The DUT shall satisfactorily withstand the salt fog conditions specified without physical damage. The DUT shall be fully functional after the test.

6.5. TEST RESULTS

There was no visible corrosion, seal break down, or material breakdown on any DUT. The DUT exhibited normal posttest operation.

Table 10 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
77P36-01-1-10N-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
51A30-01-1-10N-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
50A36-01-1-10N-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
26ASD22-01-1-AJS-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
56A36-01-1-10N-C-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
50YY50812-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
75BP36-01-1-10N-C-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
75AY23083-NI	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014
38-401-BLK	Salt Fog 96 Hrs	MIL-STD-810G Method 509.4	PASS	Grayhill Inc.	10/07/2014 – 10/11/2014

7.0 SINUSOIDAL VIBRATION TEST

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	71A30-01-1-12N-C-NI	14-23	Grayhill Inc.	11/12/2014 - 11/21/2014
		77P36-01-1-10N-NI	14-23		
		51A30-01-1-10N-NI	14-23		
		50A36-01-1-10N-NI	14-23		
		26ASD22-01-1-AJS-NI	14-23		
		56A36-01-1-10N-C-NI	14-23		
		5050YY50812-NI	14-23		
		75BP36-01-1-10N-C-NI	14-23		

7.1. PURPOSE

The purpose of this test is to evaluate the DUT of its ability to withstand sinusoidal vibration. The potential product failure modes and effects detected in this test are:

- Cracked housing/components
- Broken product/components
- Open solder joints
- Dislodged parts
- Loose mounting interfaces.

7.2. TEST SETUP DETAILS

Test Profile and Setup Details:

1. Visual Inspection of the DUT is to be performed before and after testing
2. Attach characterization sample(s) to the test fixture on the test table in specified orientation.
3. Characterize set-up conditions.
4. Attach DUT in specified orientation.
5. Attach connector(s) and tie down wire harness(es) at appropriate lengths, if required.
6. Power and monitor DUT output.
7. Apply vibration, temperature and voltage per specified levels and verify operation, if required.
8. Vibrate the DUT for specified duration.
9. Subject DUT to conditions in Test Checkpoint Table.
10. Repeat steps D thru I until all DUT have been tested for their total duration.
11. Perform the Visual Examination and Functional Check after the test.

Table 11 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-353	Shaker Table	DS-11000VH/1.7-50	Dynamic Solutions	Calibration Not Required
GT-354	Shaker Table Amplifier	SA-50	Dynamic Solutions	Calibration Not Required
GT-355	Shaker Table Controller	DVC-8	Vibration World	05/2015
GT-535	Shear Accelerometer	JTLD352C04	PCB Piezotronics	10/2015

Table 12 - Test Condition

Test Condition	Units	Parameters
Quantity	DUT	170
Duration	Hours	2 per axis
Operational Mode	Volts	Monitored with Chatterbox
Applicable Axes	3	Longitudinal, Transverse, and Vertical
Temperature	°C	Ambient
Lower Limit Frequency	Hz	10
Upper Limit Frequency	Hz	55
Sweep Rate	Min./Cycle	1
Pass/Fail Criteria		See below

Table 13 – Profile Break Points

Frequency (Hz)	Displacement (th)
10	60
55	60

7.3. TEST SETUP PHOTOS



Figure 6 – Sinusoidal Vibration for DUT being monitored.

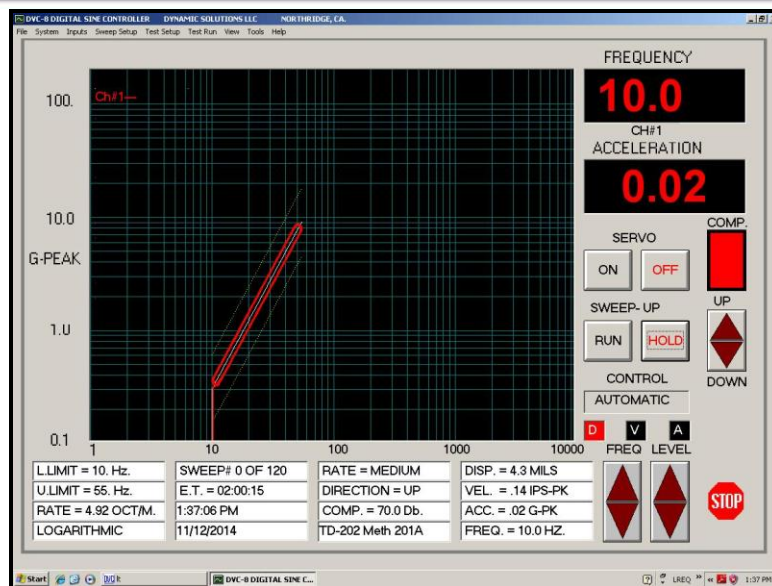


Figure 7 – Sample of finished test profile

7.4.

7.5. ACCEPTANCE CRITERIA

Upon completion of the Sinusoidal Vibration test, the DUT must be functionally tested and operate as intended. There shall not be any visible damage such as broken, loose, deformed or displaced parts. There shall be no change in the shaft position. All DUT shall be monitored and show no evidence of false activation.

7.6. TEST RESULTS

All DUT passed the functional testing and showed no evidence of damage. All DUT were powered and monitored by use of a chatter box to insure no impaired function during and after the test.

All mounting hardware was intact.

Table 14– Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
77P36-01-1-10N-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
51A30-01-1-10N-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
50A36-01-1-10N-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
26ASD22-01-1-AJS-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
56A36-01-1-10N-C-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
50YY50812-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014
75BP36-01-1-10N-C-NI	Sinusoidal Vibration	MIL-DTL-3786J 4.8.7 MIL-STD0202G 201A	PASS	Grayhill Inc.	11/12/2014 - 11/21/2014

8.0 MECHANICAL SHOCK

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Mechanical Shock	MIL-DTL-3786J 4.8.8	71A30-01-1-12N-C-NI	14-23	Grayhill Inc.	11/24/2014 - 12/12/2014
		77P36-01-1-10N-NI	14-23		
		51A30-01-1-10N-NI	14-23		
		50A36-01-1-10N-NI	14-23		
	MIL-STD0202G 213B	26ASD22-01-1-AJS-NI	14-23		
		56A36-01-1-10N-C-NI	14-23		
		50YY50812-NI	14-23		
		75BP36-01-1-10N-C-NI	14-23		

8.1. PURPOSE

The purpose of this test is to validate the manufacturing process in its ability to produce a product capable of withstanding the effects of shipping, handling, installation, and operational shock. The potential product issue modes and effects detected in this test are:

- Housing cracks
- Product/component breakage
- Inadvertent activation

8.2. TEST SETUP DETAILS

1. Visual Inspection of the DUT is to be performed before and after testing.
2. Verify specified test conditions table with test fixture on test table.
3. Place product in a holding fixture in specified orientation.
4. Attach connector(s) and tie down wire harness at appropriate lengths, if required.
5. Monitor DUT outputs, if required.
6. Test product for specified shocks/axis.
7. Repeat until all DUT have completed their total shocks/unit.
8. Perform the Visual Examination and Functional Check after the test.

Table 15 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-535	Accelerometer	JTLD352C04	PCB Piezotronics	10/2015
GT-141	Mechanical Shock Table	M-RAD 1616(100)PA-MP	MRAD	verified by controller's software & Accelerometer GT-532

Table 16 - Test Conditions

Test Condition	Units	Parameters
Quantity	DUT	170
Operational Mode		Unpowered / Chatter Box
Pulse Type		Saw Tooth
Acceleration	G	100
Pulse duration	'msec.	6
Drops	per/axis	3
Direction		3 in each of +/-X, +/-Y, +/-Z (18 shocks total)

8.3. TEST SETUP PHOTOS



Figure 8– Mechanical Shock Test Setup



Figure 9 – Mechanical Shock Test Monitoring



Figure 10 – Mechanical Shock Wave Form

8.4. ACCEPTANCE CRITERIA

As MIL-DTL-3786J states, any pair of mating switch section contacts shall not open for a period of time longer than 10 μ s unless otherwise specified. After the test, there shall be no change in shaft position, or evidence of broken, loose, deformed, or displaced parts.

8.5. TEST RESULTS

Functional status was verified by monitoring DUT with a Chatter Box during testing. After testing there was no change in shaft position, no evidence of broken, loose, deformed or displaced parts. All DUT passed the functional testing.

Table 17 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
77P36-01-1-10N-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
50A36-01-1-10N-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
26ASD22-01-1-AJS-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
56A36-01-1-10N-C-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
50YY50812-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014
75BP36-01-1-10N-C-NI	Mechanical Shock	MIL-DTL-3786J 4.8.8 MIL-STD0202G 213B	PASS	Grayhill Inc.	11/24/2014 - 12/12/2014

9.0 THERMAL SHOCK (MIL-STD-202G, METHOD 107, TEST CONDITION A)

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Thermal Shock	MIL-STD-202G, METHOD 107, TEST CONDITION A	71A30-01-1-12N-C-NI	39-43	Grayhill Inc.	12/19/2014
		77P36-01-1-10N-NI	39-43		
		51A30-01-1-10N-NI	39-43		
		50A36-01-1-10N-NI	39-43		
		26ASD22-01-1-AJS-NI	39-43		
		56A36-01-1-10N-C-NI	39-43		
		50YY50812-NI	39-43		
		75BP36-01-1-10N-C-NI	39-43		

9.1. PURPOSE

This test was conducted for the purpose of determining the resistance of DUT from sudden changes in the temperature of the surrounding atmosphere without experiencing physical, mechanical, and electrical damage or deterioration in performance.

9.2. TEST SETUP DETAILS

1. Visual examination of the test item with special attention to stress areas such as corners of molded housing and document the results.
2. Take picture of the test item.
3. Set Temperature Chamber as specified in the test plan for thermal shock.
4. Maintain the thermal shock temperature for a period as specified in the test plan.
5. Adjust Temperature Chamber to standard ambient and maintain until the test item has achieved temperature stabilization.
6. Conduct a complete visual examination of the test item and document the results.
7. Compare these data with the initial visual examination.
8. Perform functional check on the test item.

Table 18 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT- 1008	Thermal Shock	VTs-3-6-6-SC/WC	Cincinnati Sub Zero	10/2015
GT-542	Thermometer	EasyView 15	Extech	08/2015

Table 19 - Test Conditions

Test Condition	Units	Parameters
Quantity	DUT	170
Duration	Cycles	5
Dwell Time	Hours Or Minute	1 Hour
Transfer time	Minute	1
Operational Mode		Unpowered
Minimum Temperature	°C	-65
Maximum Temperature	°C	85

9.3. TEST SETUP PHOTOS



Figure 11 – Thermal Shock Test Setup

9.4. ACCEPTANCE CRITERIA

Upon completion of the Thermal Shock Test, DUT contact resistance shall not exceed 500 milliohms, and there shall be no mechanical or electrical damage, loosening of rivets, or other fastening devices.

9.5. TEST RESULTS

DUT contact resistance did not exceed 500 milliohms. There was not any evidence of damage to DUT housing and shaft.

Table 20 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
77P36-01-1-10N-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
51A30-01-1-10N-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
50A36-01-1-10N-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
26ASD22-01-1-AJS-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
56A36-01-1-10N-C-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
50YY50812-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014
75BP36-01-1-10N-C-NI	Thermal Shock	MIL-STD-202G 107G	PASS	Grayhill Inc.	12/19/2014

10.0 ROTATIONAL LIFE

Test	Specification	DUT Part Number	DUT	Test Location	Test Date
Rotational Life	MIL-DTL-3786J	71A30-01-1-12N-C-NI 77P36-01-1-10N-NI 51A30-01-1-10N-NI 50A36-01-1-10N-NI 26ASD22-01-1-AJS-NI 56A36-01-1-10N-C-NI 50YY50812-NI 75BP36-01-1-10N-C-NI	24 To 33	Grayhill Inc.	10/27/2014 – 12/11/2014

10.1. PURPOSE

The purpose of this test is to determine the ability of DUT to operate satisfactorily under simultaneously applied varying conditions of high / low temperature.

10.2. TEST SETUP DETAILS

1. Visual Inspection of the DUT is to be performed before and after testing
2. Measure and record the Initial torque values.
3. Program the Rotational Life Tester at 20RPM for 25000 cycles.
4. The cycle rate was approximately 10 cycles per minute.
5. Mount DUT onto Rotational Life Tester.
6. After 25000 cycles, measure and record Torque.

Table 21 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-143	Hygrometer	MDM25	Mitchell Instrument	06/2014
PAL-7	Torque Force Reader	BGI	Mark-10	09/2015
RLS-46	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-83	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-84	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-85	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-64	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA

Table 22 - Test Conditions

Test Condition	Units	Parameters
Quantity	Assemblies	170
Operational Mode		Unpowered
Test Temperature	°C	24.6
Humidity	%Rh	26.1
Cycle Rate	RPM	20

10.3. TEST SETUP PHOTOS



Figure 12 – Rotational Life Test Setup

10.4. ACCEPTANCE CRITERIA

The DUT must function normally before, during, and after the Rotational Life Tests. There shall be no mechanical damage, loosening of rivets or other fastening devices. The rotational torque shall be in between 0.5 in-lbs and 1.5 in-lbs.

10.5. TEST RESULTS

There was no evidence of any electrical, physical, or mechanical damage. All DUT were function normally after the Rotational Life Tests.

Table 23 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
77P36-01-1-10N-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
50A36-01-1-10N-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
26ASD22-01-1-AJS-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
56A36-01-1-10N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
50YY50812-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014
75BP36-01-1-10N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	10/27/2014 – 12/11/2014

11.0 ROTATIONAL LIFE AT TEMPERATURE

Test	Specification	DUT Part Number	DUT	Test Location	Test Date
Rotational Life at Temperature	MIL-DTL-3786J 4.8.19 MIL-STD-202G 108A	26ASD22-01-1-AJS (NI,STD) 50A36-01-1-10N (NI, STD) 50YY50812 (NI, STD) 51A30-01-1-10N (NI, STD) 71A30-01-1-12N-C (NI, STD) 75BP36-01-1-10H-C (NI, STD) 75YY50033 STD 77P36-01-10N (NI, STD)	34 - 38	Grayhill Inc.	11/21/14 – 12/08/14

11.1. PURPOSE

The purpose of this test is to determine the ability of DUT to operate satisfactorily under simultaneously applied varying conditions of high / low temperature.

11.2. TEST SETUP DETAILS

1. Visual Inspection of the DUT is to be performed before and after testing
2. Measure and record the Initial torque values.
3. Program the Rotational Life Tester at 20RPM for 25000 cycles.
4. The cycle rate was approximately 10 cycles per minute.
5. Mount DUT onto Rotational Life Tester.
6. After 25000 cycles, measure and record Torque.

Table 24 – Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT-143	Hygrometer	MDM25	Mitchell Instrument	06/2015
PAL-7	Torque Force Reader	BGI	Mark-10	09/2015
GT-1003	Temperature and Humidity Chamber	SM-8-3800	Thermotron	03/2015
RLS-46	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-83	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-84	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-85	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA
RLS-64	Smart Motor Rotational Life	SM3416D-PLS2	Animatics	NA

Table 25 - Test Conditions

Test Condition	Units	Parameters
Quantity	Assemblies	85
Operational Mode		Unpowered
Test Temperature	°C	85
Duration	Cycles	25,000
Cycle Rate	RPM	20

11.3. ACCEPTANCE CRITERIA

The DUT must function normally before, during, and after the Rotational Life Tests. There shall be no mechanical damage, loosening of rivets or other fastening devices. The rotational torque shall be in between 0.5 in-oz and 1.5 in-oz.

11.4. TEST RESULTS

There was no evidence of any electrical, physical, or mechanical damage. DUT function normally after the Rotational Life Tests

Table 26 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
77P36-01-1-10N-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
50A36-01-1-10N-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
26ASD22-01-1-AJS-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
56A36-01-1-10N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
50YY50812-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14
75BP36-01-1-10N-C-NI	Rotational Life	MIL-DTL-3786J	PASS	Grayhill Inc.	11/21/14 – 12/08/14

12.0 THERMAL SHOCK

Test	Specification	DUT Part Number	DUT Serial Number	Test Location	Test Date
Thermal Shock	LREQ-SP03-128	71A30-01-1-12N-C-NI	39-43	Grayhill Inc.	12/04/2014 – 12/18/2014
		77P36-01-1-10N-NI	39-43		
		51A30-01-1-10N-NI	39-43		
		50A36-01-1-10N-NI	39-43		
		26ASD22-01-1-AJS-NI	39-43		
		56A36-01-1-10N-C-NI	39-43		
		50YY50812-NI	39-43		
		75BP36-01-1-10N-C-NI	39-43		
		75AY23083-NI	39-43		
		38-401-BLK	39-43		

12.1. PURPOSE

This test was performed to determine if DUT would maintain the structural integrity after being subjected to a rapid change in temperature multiple times.

12.2. TEST SETUP DETAILS

1. Visual examination of the test item with special attention to stress areas such as corners of molded housing and document the results.
2. Take picture of the test item.
3. Set Temperature Chamber as specified in the test plan for thermal shock.
4. Maintain the thermal shock temperature for a period as specified in the test plan.
5. Adjust Temperature Chamber to standard ambient and maintain until the test item has achieved temperature stabilization.
6. Conduct a complete visual examination of the test item and document the results.
7. Compare these data with the initial visual examination.

Table 27 – Equipment

Equipment ID	Equipment Type	Model Number	Manufacturer	Calibration Due Date
GT- 1008	Thermal Shock	VTs-3-6-6-SC/WC	Cincinnati Sub Zero	10/2015
GT-542	Thermometer	EasyView 15	Extech	08/2015

Table 28 – Test Condition

Test Condition	Units	Parameters
Quantity	Assemblies	100
Test Duration	Cycles	1000
Operational Mode		Unpowered
Dwell Duration	min	10
Transfer Time	min	1
Minimum Temperature	°C	-40
Maximum Temperature	°C	85

12.3. TEST SETUP PHOTOS



Figure 13 – Thermal Shock Setup

12.4. ACCEPTANCE CRITERIA

Upon completion of the Thermal Shock Test, there shall not be any visible damage or tin whiskers to DUT.

12.5. TEST RESULTS

There was no physical damage to the NI plated DUT after completing the test.

Table 29 – Test Results

DUT	Test	Specification	Pass	Test Location	Test Date
71A30-01-1-12N-C-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
77P36-01-1-10N-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
51A30-01-1-10N-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
50A36-01-1-10N-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
26ASD22-01-1-AJS-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
56A36-01-1-10N-C-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
50YY50812-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
75BP36-01-1-10N-C-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
75AY23083-NI	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014
38-401-BLK	Thermal Shock	Grayhill Custom	PASS	Grayhill Inc.	12/04/2014 - 12/18/2014