



Technical Service Bulletin

Technical Service Bulletin: TSB190004	Released Date: 17-Jan-2019
HMI 320, HMI 220, and HMI 114 (Bargraph) Inspection	

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- C100 D6C, C100 N6, C100D2RE, C100D6C, C125D6C, C125N6, C150D2RE, C150N6, C200 D2RE, C200D2RE, C3000 D6E, C3500 D5E, C3750 D5, C50D6C, C60 D6C, C60 N6, C60D6C, C70 N6, C70D2RE, C80 D6C, C80 N6, C80D6C, DFEJ, DFEK, DQCA, DQCB, DQCC, DQFAA, DQFAB, DQFAC, DQFAD, DQGAA, DQGAB, DQGAE, DQGAF, DQGAS, DQKAB, DQKAD, DQKAE, DQKAF, DQKAN, DQLD, DQLE, DQLF, DQPAA, DQPAB, DSGAB, DSGAC, DSGAD, DSGAE

Issue

Symptom:

- The HMI (Human Machine Interface) and/or bargraph flashes and goes black upon wakeup.
- The HMI and/or bargraph stays black upon power recycling.
- The generator is shutdown and cannot start.

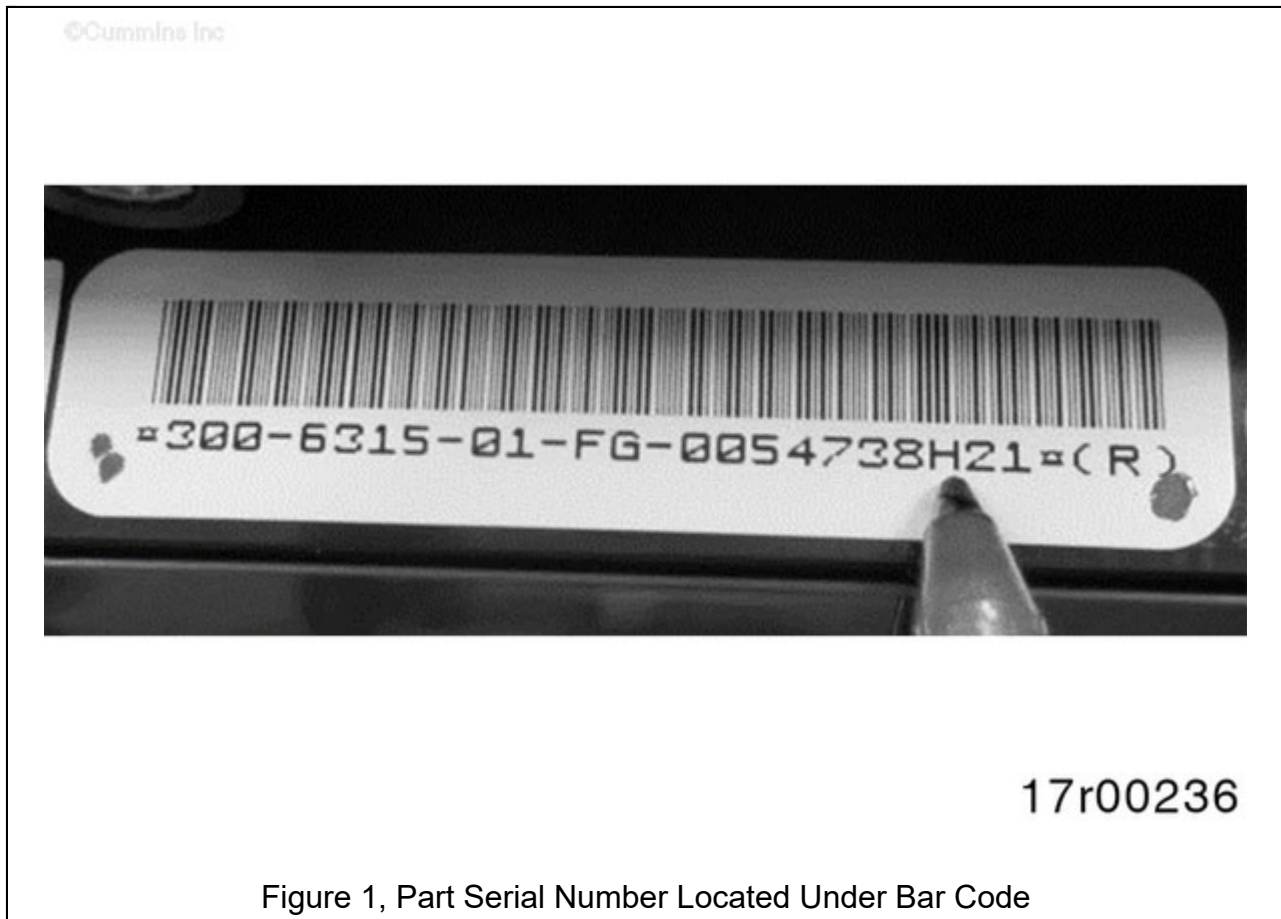
Root Cause:

- The HMI and/or bargraph is off due to a defective built-in resistor.

Verification/Confirmation

Inspect the generator set to determine if a replacement is needed.

1. Check the Generator Serial Number in **Service Instructions** to see if the generator is affected.
2. Check the Part Number in **Service Parts Availability** to see if the generator contains the affected HMI/bargraph.
3. Check the Part Serial Number under the barcode on top of the affected HMI/bargraph, and see if the Date Code (last four digits) is 8HXX, 8IXX, or 8JXX.
 - a. If so, please order a replacement with the same part number.
 - b. If not, no further check is needed, thus no parts need to be replaced/repaired.



Upon receiving the replaced parts, inspect the replacement.

1. Check the Date Code (last four digits in the Part Serial Number) on top of the replaced parts.
 - a. If the Date Code is 8HXX, 8IXX, or 8JXX, then check if the replaced parts have yellow-dot sticker on the parts.
 - The yellow sticker could be in front of the part in upper left corner or on top of it.
 - Don't install the replacement if without a yellow-sticker.

b. If the Date Code is NOT 8HXX, 8IXX, or 8JXX, then proceed to next step with no further check.

2. Perform the replacement in **Service Instructions**.





Figure 3, Yellow-dot Sticker on Top of the Part

Resolution

- Replace the affected HMI and/or bargraph.
- No software change is needed.

Service Instructions

Replace the HMI/bargraph.

1. Shut down the generator set.
2. Isolate the power supply. (Lockout, tagout.)
 - a. Turn off and disconnect the battery charger (if equipped).
 - b. Disconnect the negative (-) cable from the battery first to prevent accidental starting.
3. Remove the affected part from the generator set.
4. Install the replaced part to the generator set.
5. Connect with power supply.

Validate the HMI/bargraph functionality.

- Power cycle the generator.
- Check if the HMI/bargraph will light up.

Refer to A041J096 and A045H721 for more details.

Table 1, Additional Information	
Global Literature Number	Description
A041J096	Instruction Sheet for Remote HMI220 (A041J582) and HMI320 (A041J589) Kits
A045H721	Installation Instructions for Bargraph Kit HMI112 A045J203

Table 2, CPG - USA Affected Generator Set Serial Numbers					
A18030721 0	H18040718 6	I180416987	I180425208	J18042925 3	J18043764 7
B18031968 8	H18040718 8	I180416988	I180425209	J18042925 6	J18043764 8
D18034231 6	H18040723 1	I180416989	I180425210	J18042925 7	J18043764 9
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E18035347 5	H18040724 6	I180418296	I180425226	J18042926 5	J18043767 6
F18037356 8	H18040864 4	I180418297	I180425227	J18042926 6	J18043767 7
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G18037922 2	H18040868 6	I180418311	I180425234	J18042929 5	J18043768 2
G18038482 6	H18040872 0	I180418312	I180425239	J18042930 6	J18043768 4
G18038650 7	H18040872 1	I180418313	I180425240	J18042940 6	J18043769 4

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G18038842 2	H18040882 6	I180418318	I180425242	J18042998 2	J18043818 6
G18038901 2	H18040882 7	I180418319	I180425243	J18042998 8	J18043820 6
G18038946 7	H18040908 7	I180418320	I180425244	J18043003 1	J18043820 7
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G18039008 8	H18040909 0	I180418322	I180425246	J18043003 3	J18043820 9
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H18040399 9	I180415918	I180423434	J18042867 1	J18043606 2	K18044444 8
H18040401 4	I180415921	I180423435	J18042867 2	J18043606 5	K18044444 9
H18040429 8	I180415922	I180423466	J18042868 6	J18043606 6	K18044448 3
H18040433 4	I180415924	I180423486	J18042870 6	J18043606 7	K18044448 4
H18040433 5	I180415925	I180424377	J18042870 7	J18043606 8	K18044457 1
H18040435 2	I180415926	I180424381	J18042870 8	J18043606 9	K18044457 2
H18040435 3	I180415927	I180424382	J18042872 6	J18043612 6	K18044561 2
H18040435 5	I180415928	I180424383	J18042877 2	J18043614 5	K18044561 5
H18040441 0	I180415929	I180424384	J18042877 3	J18043620 6	K18044561 7
H18040444 7	I180415930	I180424386	J18042892 6	J18043714 3	K18044561 8
H18040479 1	I180415931	I180424387	J18042894 6	J18043725 4	K18044561 9
H18040479 6	I180415932	I180424388	J18042897 1	J18043725 5	K18044562 0
H18040479 7	I180415933	I180424389	J18042897 2	J18043725 6	K18044562 3
H18040479 8	I180415934	I180424390	J18042897 3	J18043725 7	K18044562 4
H18040480 0	I180415947	I180424407	J18042897 4	J18043725 8	K18044562 5
H18040592 2	I180415948	I180424409	J18042897 5	J18043726 6	K18044562 6
H18040592 8	I180415966	I180424411	J18042897 6	J18043726 8	K18044562 7

H18040592 9	I180415986	I180424412	J18042897 8	J18043726 9	K18044562 8
H18040623 2	I180416026	I180424416	J18042897 9	J18043728 6	K18044584 1
H18040623 3	I180416027	I180424417	J18042898 0	J18043728 7	K18044584 2
H18040627 8	I180416046	I180424418	J18042898 1	J18043728 8	K18044586 7
H18040628 6	I180416126	I180424419	J18042898 2	J18043728 9	K18044657 2
H18040629 3	I180416269	I180424428	J18042898 3	J18043729 0	K18044660 0
H18040630 0	I180416270	I180424429	J18042898 4	J18043729 5	K18044660 1
H18040630 2	I180416272	I180424431	J18042898 7	J18043729 7	K18044660 2
H18040630 7	I180416273	I180424488	J18042900 6	J18043730 0	K18044660 3
H18040630 8	I180416274	I180424946	J18042900 8	J18043730 1	K18044660 8
H18040631 2	I180416275	I180424947	J18042900 9	J18043730 3	K18044765 7
H18040631 3	I180416276	I180424948	J18042901 1	J18043730 4	K18044778 3
H18040631 4	I180416456	I180424949	J18042901 2	J18043730 6	K18044778 5
H18040632 6	I180416457	I180424950	J18042902 6	J18043732 6	K18044778 9
H18040661 2	I180416458	I180424951	J18042915 1	J18043732 7	K18044779 1
H18040670 6	I180416466	I180424952	J18042915 2	J18043732 9	K18044786 1
H18040670 7	I180416467	I180424953	J18042915 3	J18043733 0	K18044825 5

H18040670 8	I180416468	I180424954	J18042915 4	J18043733 1	K18044825 6
H18040672 7	I180416469	I180424985	J18042915 5	J18043733 3	K18044826 5
H18040674 6	I180416470	I180425065	J18042915 9	J18043733 5	K18044826 8
H18040674 9	I180416486	I180425066	J18042916 0	J18043746 5	K18044826 9
H18040675 0	I180416506	I180425086	J18042916 1	J18043746 7	K18044831 5
H18040675 1	I180416508	I180425088	J18042916 2	J18043746 9	K18044854 1
H18040675 2	I180416527	I180425089	J18042916 3	J18043747 0	K18044854 2
H18040675 3	I180416528	I180425091	J18042916 4	J18043747 1	K18044854 4
H18040675 4	I180416530	I180425092	J18042916 5	J18043747 2	K18044854 7
H18040675 5	I180416531	I180425093	J18042916 6	J18043747 6	K18044855 0
H18040676 6	I180416537	I180425094	J18042916 7	J18043747 7	K18044855 1
H18040676 7	I180416538	I180425096	J18042916 8	J18043747 8	K18044855 2
H18040676 8	I180416926	I180425098	J18042916 9	J18043747 9	K18044855 3
H18040678 6	I180416927	I180425099	J18042917 0	J18043762 7	K18044855 6
H18040678 7	I180416928	I180425106	J18042917 1	J18043763 0	K18044884 2
H18040701 0	I180416929	I180425107	J18042917 2	J18043763 1	K18044886 9
H18040701 1	I180416930	I180425108	J18042917 3	J18043763 2	K18044887 3

H18040717 7	I180416935	I180425129	J18042917 4	J18043763 3	K18044887 4
H18040717 9	I180416936	I180425146	J18042917 5	J18043763 4	K18044887 7
H18040718 0	I180416950	I180425190	J18042917 6	J18043763 5	K18044891 8
H18040718 3	I180416951	I180425191	J18042917 7	J18043763 6	K18044925 8
H18040718 4	I180416966	I180425206	J18042917 9	J18043763 7	
H18040718 5	I180416986	I180425207	J18042918 0	J18043764 6	

G18D0017 88	H18D00196 5	H18D00208 6	I18D00225 3	J18D00236 5	J18D00247 9
G18D0018 40	H18D00197 0	H18D00208 8	I18D00225 4	J18D00236 7	J18D00248 0
G18D0018 54	H18D00197 1	H18D00209 0	I18D00225 5	J18D00236 8	J18D00248 2
G18D0018 55	H18D00197 2	H18D00209 1	I18D00225 6	J18D00236 9	J18D00248 3
G18D0018 56	H18D00197 3	H18D00209 4	I18D00225 7	J18D00237 0	J18D00248 6
G18D0018 60	H18D00197 4	H18D00209 5	I18D00225 8	J18D00237 1	J18D00248 7
G18D0018 61	H18D00197 5	H18D00209 6	I18D00225 9	J18D00237 2	J18D00248 8
G18D0018 67	H18D00197 6	H18D00209 7	I18D00226 0	J18D00237 4	J18D00248 9
G18D0018 68	H18D00197 9	H18D00209 8	I18D00226 3	J18D00237 5	J18D00249 0

G18D0018 69	H18D00198 0	H18D00210 8	I18D00226 4	J18D00237 8	J18D00249 1
G18D0018 70	H18D00198 1	H18D00210 9	I18D00227 0	J18D00237 9	J18D00249 2
G18D0018 71	H18D00198 2	H18D00211 0	I18D00227 1	J18D00238 0	J18D00249 4
G18D0018 72	H18D00198 3	I18D00211 8	I18D00227 2	J18D00238 2	J18D00249 5
G18D0018 74	H18D00198 4	I18D00211 9	I18D00227 3	J18D00238 3	J18D00249 6
G18D0018 77	H18D00198 5	I18D00212 2	I18D00227 7	J18D00238 4	J18D00249 7
G18D0018 78	H18D00199 5	I18D00212 3	I18D00227 8	J18D00238 6	J18D00249 8
G18D0018 90	H18D00199 6	I18D00212 3	I18D00227 9	J18D00238 7	J18D00249 9
G18D0018 91	H18D00199 9	I18D00212 5	I18D00228 1	J18D00238 9	J18D00250 0
G18D0018 92	H18D00200 0	I18D00212 6	I18D00228 2	J18D00239 0	J18D00250 1
G18D0018 95	H18D00200 1	I18D00212 7	I18D00228 6	J18D00239 1	J18D00250 2
G18D0018 96	H18D00200 2	I18D00212 8	I18D00228 6	J18D00240 4	J18D00250 3
G18D0018 97	H18D00200 3	I18D00212 9	I18D00228 7	J18D00240 5	J18D00250 4
G18D0018 98	H18D00200 4	I18D00213 0	I18D00228 8	J18D00240 6	J18D00250 5
G18D0018 99	H18D00200 7	I18D00213 1	I18D00228 9	J18D00240 7	J18D00250 6
G18D0019 05	H18D00200 8	I18D00213 2	I18D00229 0	J18D00241 2	J18D00250 7
G18D0019 06	H18D00200 9	I18D00213 3	I18D00229 6	J18D00241 3	J18D00250 8

Table 3, CPG – UK Affected Generator Set Serial Numbers					
G18D0019 07	H18D00201 0	I18D00213 6	I18D00229 7	J18D00241 4	J18D00250 9
G18D0019 09	H18D00201 5	I18D00213 7	I18D00229 8	J18D00241 5	J18D00251 3
G18D0019 10	H18D00201 6	I18D00213 8	I18D00229 9	J18D00241 6	J18D00251 4
G18D0019 11	H18D00202 0	I18D00213 9	I18D00230 0	J18D00241 7	J18D00251 5
G18D0019 12	H18D00202 1	I18D00214 4	I18D00230 1	J18D00242 0	J18D00251 6
G18D0019 13	H18D00202 2	I18D00214 6	I18D00230 3	J18D00242 1	J18D00251 7
H18D00191 5	H18D00202 4	I18D00215 1	I18D00230 4	J18D00242 2	J18D00251 8
H18D00191 6	H18D00202 5	I18D00215 2	I18D00230 5	J18D00242 3	J18D00251 9
H18D00191 7	H18D00202 6	I18D00215 3	I18D00230 6	J18D00242 5	J18D00252 0
H18D00191 8	H18D00202 8	I18D00215 5	J18D00231 1	J18D00242 7	J18D00252 1
H18D00191 9	H18D00202 9	I18D00215 8	J18D00231 2	J18D00242 8	J18D00252 2
H18D00192 0	H18D00203 2	I18D00215 9	J18D00231 5	J18D00242 9	J18D00252 3
H18D00192 2	H18D00203 3	I18D00216 0	J18D00231 6	J18D00243 0	J18D00252 4
H18D00192 3	H18D00203 4	I18D00216 1	J18D00231 8	J18D00243 1	J18D00252 5
H18D00192 4	H18D00203 5	I18D00216 2	J18D00232 0	J18D00243 3	J18D00252 6
H18D00192 5	H18D00203 8	I18D00216 3	J18D00232 7	J18D00243 4	J18D00252 7
H18D00192 6	H18D00203 9	I18D00216 5	J18D00232 8	J18D00243 7	J18D00252 8

H18D00192 8	H18D00204 1	I18D00216 6	J18D00232 9	J18D00243 8	J18D00252 9
H18D00192 9	H18D00204 3	I18D00217 0	J18D00233 2	J18D00243 9	J18D00253 0
H18D00193 0	H18D00204 4	I18D00217 2	J18D00233 3	J18D00244 0	J18D00253 2
H18D00193 1	H18D00204 5	I18D00217 6	J18D00234 6	J18D00244 2	J18D00253 3
H18D00193 4	H18D00204 6	I18D00218 8	J18D00234 7	J18D00244 4	J18D00253 4
H18D00194 4	H18D00204 7	I18D00219 0	J18D00234 8	J18D00244 5	J18D00253 5
H18D00194 5	H18D00204 8	I18D00219 5	J18D00234 9	J18D00244 6	J18D00253 8
H18D00194 6	H18D00205 2	I18D00221 2	J18D00235 0	J18D00244 7	J18D00253 9
H18D00194 8	H18D00205 3	I18D00221 3	J18D00235 2	J18D00244 8	J18D00254 0
H18D00194 9	H18D00205 4	I18D00221 6	J18D00235 3	J18D00244 9	J18D00254 1
H18D00195 0	H18D00205 5	I18D00221 7	J18D00235 5	J18D00245 9	K18D00254 6
H18D00195 3	H18D00205 7	I18D00222 1	J18D00235 8	J18D00246 0	K18D00254 7
H18D00195 4	H18D00205 8	I18D00222 9	J18D00235 9	J18D00246 1	K18D00254 8
H18D00196 1	H18D00205 9	I18D00223 0	J18D00236 0	J18D00246 3	K18D00254 9
H18D00196 2	H18D00206 0	I18D00224 6	J18D00236 1	J18D00247 5	K18D00255 0
H18D00196 3	H18D00208 3	I18D00225 0	J18D00236 2	J18D00247 7	
H18D00196 4	H18D00208 4	I18D00225 1	J18D00236 3	J18D00247 8	

D18I96009 3	H18I41845 1	I18I418570	I18I418899	J18I419000	J18I419381
G18I93013 5	H18I41845 2	I18I418571	I18I418914	J18I419001	J18I419382
G18I93013 6	H18I41845 3	I18I418572	I18I418915	J18I419002	J18I419383
G18I93013 7	H18I41845 4	I18I418573	I18I418916	J18I419003	J18I419384
G18I93014 2	H18I41845 5	I18I418574	I18I418917	J18I419004	J18I419385
G18I93014 4	H18I41845 6	I18I418575	I18I418926	J18I419005	J18I419386
G18I93014 4	H18I41845 7	I18I418576	I18I805376	J18I419006	J18I419387
G18I93014 4	□18I41845 8	I18I418577	I18I805377	J18I419007	J18I419388
G18I93014 4	H18I41845 9	I18I418578	I18I805378	J18I419008	J18I419389
G18I93014 4	H18I41848 0	I18I418579	I18I805379	J18I419009	J18I419390
G18I93014 4	H18I41848 1	I18I418580	I18I805381	J18I419013	J18I419391
G18I93014 9	H18I41848 2	I18I418581	I18I805382	J18I419014	J18I419392
G18I93015 0	H18I41848 3	I18I418582	I18I805383	J18I419015	J18I419393
G18I93015 0	H18I41848 4	I18I418583	I18I805384	J18I419016	J18I419394
G18I93015 2	H18I41848 5	I18I418584	I18I805385	J18I419017	J18I419395
G18I96015 2	H18I41848 6	I18I418585	I18I805386	J18I419018	J18I419396

Table 4, CPG – India Affected Generator Set Serial Numbers					
G18I96015 2	H18I41848 7	I18I418586	I18I805387	J18I419019	J18I419397
G18I96015 2	H18I41848 8	I18I418587	I18I805388	J18I419020	J18I419401
G18I96015 3	H18I41848 9	I18I418588	I18I805389	J18I419021	J18I419402
G18I96015 5	H18I41849 0	I18I418589	I18I805390	J18I419022	J18I419403
G18I96015 6	H18I41849 1	I18I418590	I18I805391	J18I419023	J18I419404
G18I96015 6	H18I41849 2	I18I418591	I18I805392	J18I419024	J18I419405
G18I97013 5	H18I41849 3	I18I418592	I18I805393	J18I419025	J18I419406
G18I97013 5	H18I41849 4	I18I418593	I18I805394	J18I419026	J18I419407
G18I97014 0	H18I41849 5	I18I418594	I18I805395	J18I419027	J18I419408
G18I97014 1	H18I41849 6	I18I418595	I18I805396	J18I419032	J18I419409
G18I97014 3	H18I41849 9	I18I418599	I18I805397	J18I419033	J18I419410
G18I97014 3	H18I41850 0	I18I418600	I18I805398	J18I419034	J18I419411
H18I41814 8	H18I41850 1	I18I418601	I18I805399	J18I419035	J18I419412
H18I41814 9	H18I41850 2	I18I418603	I18I805400	J18I419036	J18I419413
H18I41815 0	H18I41850 3	I18I418604	I18I805401	J18I419037	J18I419414
H18I41815 5	H18I41850 4	I18I418605	I18I805402	J18I419038	J18I419415
H18I41815 6	H18I41850 5	I18I418606	I18I805403	J18I419039	J18I419416

H18I41815 7	H18I41850 6	I18I418607	I18I805404	J18I419047	J18I419417
H18I41815 8	H18I41850 7	I18I418608	I18I805405	J18I419048	J18I419418
H18I41815 9	H18I41850 8	I18I418609	I18I805406	J18I419049	J18I419419
H18I41816 0	H18I41850 9	I18I418610	I18I805407	J18I419050	J18I419423
H18I41816 1	H18I41851 0	I18I418611	I18I805408	J18I419051	J18I805500
H18I41816 2	H18I41851 1	I18I418612	I18I805409	J18I419052	J18I805501
H18I41816 3	H18I41851 2	I18I418613	I18I805410	J18I419053	J18I805502
H18I41816 9	H18I41851 3	I18I418614	I18I805411	J18I419054	J18I805503
H18I41817 0	H18I41851 4	I18I418615	I18I805412	J18I419055	J18I805504
H18I41817 1	H18I41851 5	I18I418616	I18I805413	J18I419056	J18I805505
H18I41817 2	H18I41851 6	I18I418617	I18I805414	J18I419057	J18I805506
H18I41817 3	H18I41851 7	I18I418618	I18I805415	J18I419063	J18I805507
H18I41817 4	H18I41851 8	I18I418621	I18I805416	J18I419064	J18I805508
H18I41817 5	H18I41851 9	I18I418624	I18I805417	J18I419065	J18I805509
H18I41817 6	H18I41852 0	I18I418625	I18I805418	J18I419066	J18I805510
H18I41817 7	H18I41852 1	I18I418626	I18I805419	J18I419067	J18I805511
H18I41818 5	H18I41852 2	I18I418627	I18I805420	J18I419068	J18I805512

H18I41818 6	H18I41852 3	I18I418628	I18I805421	J18I419069	J18I805513
H18I41818 7	H18I41852 4	I18I418630	I18I805422	J18I419070	J18I805514
H18I41818 8	H18I41852 6	I18I418631	I18I805423	J18I419075	J18I805515
H18I41818 9	H18I41852 7	I18I418632	I18I805424	J18I419076	J18I805516
H18I41819 0	H18I41852 8	I18I418634	I18I805425	J18I419078	J18I805517
H18I41819 1	H18I41852 9	I18I418635	I18I805426	J18I419079	J18I805518
H18I41820 3	H18I41853 0	I18I418637	I18I805427	J18I419081	J18I805520
H18I41820 4	H18I80529 2	I18I418640	I18I805428	J18I419082	J18I805521
H18I41820 5	H18I80529 3	I18I418641	I18I805429	J18I419083	J18I805522
H18I41820 6	H18I80529 4	I18I418642	I18I805430	J18I419084	J18I805523
H18I41820 7	H18I80529 5	I18I418643	I18I805431	J18I419099	J18I805524
H18I41820 8	H18I80529 6	I18I418644	I18I805432	J18I419100	J18I805525
H18I41820 9	H18I80529 7	I18I418645	I18I805433	J18I419101	J18I805526
H18I41821 0	H18I80529 8	I18I418646	I18I805434	J18I419102	J18I805527
H18I41821 8	H18I80529 9	I18I418647	I18I805435	J18I419103	J18I805534
H18I41821 9	H18I80530 0	I18I418648	I18I805436	J18I419104	J18I805535
H18I41822 5	H18I80530 1	I18I418649	I18I805437	J18I419108	J18I805536

H18I41822 6	H18I80530 2	I18I418659	I18I805438	J18I419109	J18I805537
H18I41822 7	H18I80530 3	I18I418660	I18I805439	J18I419110	J18I805538
H18I41822 8	H18I80530 4	I18I418662	I18I805440	J18I419111	J18I805539
H18I41822 9	H18I80530 5	I18I418663	I18I805441	J18I419112	J18I805540
H18I41823 0	H18I80530 6	I18I418664	I18I805442	J18I419129	J18I805541
H18I41823 1	H18I80530 7	I18I418665	I18I805443	J18I419130	J18I805542
H18I41823 2	H18I80530 8	I18I418666	I18I805444	J18I419131	J18I805543
H18I41823 3	H18I80530 9	I18I418667	I18I805445	J18I419134	J18I805544
H18I41823 4	H18I80531 0	I18I418668	I18I805446	J18I419135	J18I805545
H18I41823 5	H18I80531 1	I18I418669	I18I805447	J18I419137	J18I805546
H18I41823 6	H18I80531 2	I18I418670	I18I805448	J18I419138	J18I805547
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