



NAFLIC - Standards & Related Documents Committee | TECHNICAL BULLETIN

453. A.R.M. (USA) Super Shot service bulletin

NAFLIC is in receipt of a service bulletin from A.R.M. (USA) relating to the Super Shot ride and the mandatory installation of a secondary locking mechanism to prevent passenger seats from dislodging in the event the seat attachment bolts are not installed.

This follows notification to A.R.M. (USA) of an incident in which a seat became detached from the carriage frame during operation. Investigation indicates the seat frame attachment bolts were not installed at the time of the incident.

This serves as a reminder to controllers of the importance of a regular maintenance schedule for devices and of their responsibilities as controllers.

The information contained within is that of the manufacturer and not NAFLIC. When following the advice from the manufacturer, you are reminded of your duties and responsibilities under HSG175 regarding modifications.

Committee Members: Mr. D Dadswell (Chairman), Mr. A Mellor (Secretary), Mr. P Smith, Mr. J Green, Mr. D Cox, Mr. I Davies, Mr. J Shilling, Mr. D Inman & Mr. R Hiscoe

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A.R.M. (USA), INC

1506 Fernwood Rd. Wintersville, OH 43953 740.264.6599 740.266.2953 Fax Bulletin No: SB20180221 Release Date: February 21, 2018 Effective Date: March 1, 2018 Supercedes: N/A Completion Date: May 30, 2018 Page: 1 of 7



Manufacturer: A.R.M. (USA), Inc. Ride Name: Super Shot Model(s): All Affected Production Dates: All

AFFECTED SERIAL NUMBERS

All Rides Fixed-Site & Moble

ABSTRACT OF ISSUE

Mandatory installation of secondary locking mechanism to prevent passenger seats from dislodging in the event seat attachment bolts are not installed.

REASON FOR RELEASE

A.R.M. (USA), Inc. has been notified of an incident in which a seat became detached from the carriage frame during operation. Investigation indicates the seat frame attachment bolts were not installed at the time of the incident.

ACTION TO BE TAKEN

- 1. Immediate installation of secondary locking mechanism on all seat frames per attached instructions;
- 2. Replace all seat attachment bolts, washers and nuts;
- 3. Modify inspection protocol to include daily inspection of latches and mounting hardware;
- 4. Modify maintenance protocol to include annual replacement of all seat attachment bolts;
- 5. Execute the Certificate of Compliance form and return to A.R.M. (USA), Inc. prior to continued operation beyond the Compliance Date of this Service Bulletin.

DETAIL OF ISSUE

A bolt-on locking device has been developed to prevent the seat frames from detaching from the carriage frame in the event the attachment bolts are missing or improperly installed.



The Secondary Lock Mechanism Is Not Intended, Or Capable Of, Replacing The Primary Seat Attachment Bolts. Under No Circumstances May The Ride Be Operated With Any Of The Seat Bolts Missing Or Improperly Installed.

There have been two primary styles of seat carriages produced for the Super Shot line of rides; A "square" frame with three seats on each of the four sides of the tower and a "round" dodecagon (12 sided) frame with a single seat on each face. Each style requires a different lock kit.

Square Seat Carriage = Kit #SS0129 Round Seat Carriage = Kit #SS1002

Upon receipt of this Service Bulletin, contact A.R.M. (USA), Inc. and provide the following:

- 1. Company Name;
- 2. Ride Serial Number;
- 3. Seat Carriage Style (square or round); and
- 3. Specific Shipping Instructions

Upon receipt of the kits, immediately install per instructions and add daily visual inspection of the latches and mounting hardware to inspection protocol.

NOTICE ONLY COMPONENTS SPECIFIED, AUTHORIZED, OR PROVIDED BY A.R.M. (US), INC. SHALL BE USED A.R.M. (US) INC. SPECIFICALLY DISCLAIMS ANY LIABILITY ASSOCIATED WITH THE USE OF UNAUTHORIZED COMPONENTS OR MODIFICATIONS AND/OR ALTERATIONS OF AUTHORIZED COMPONENTS.



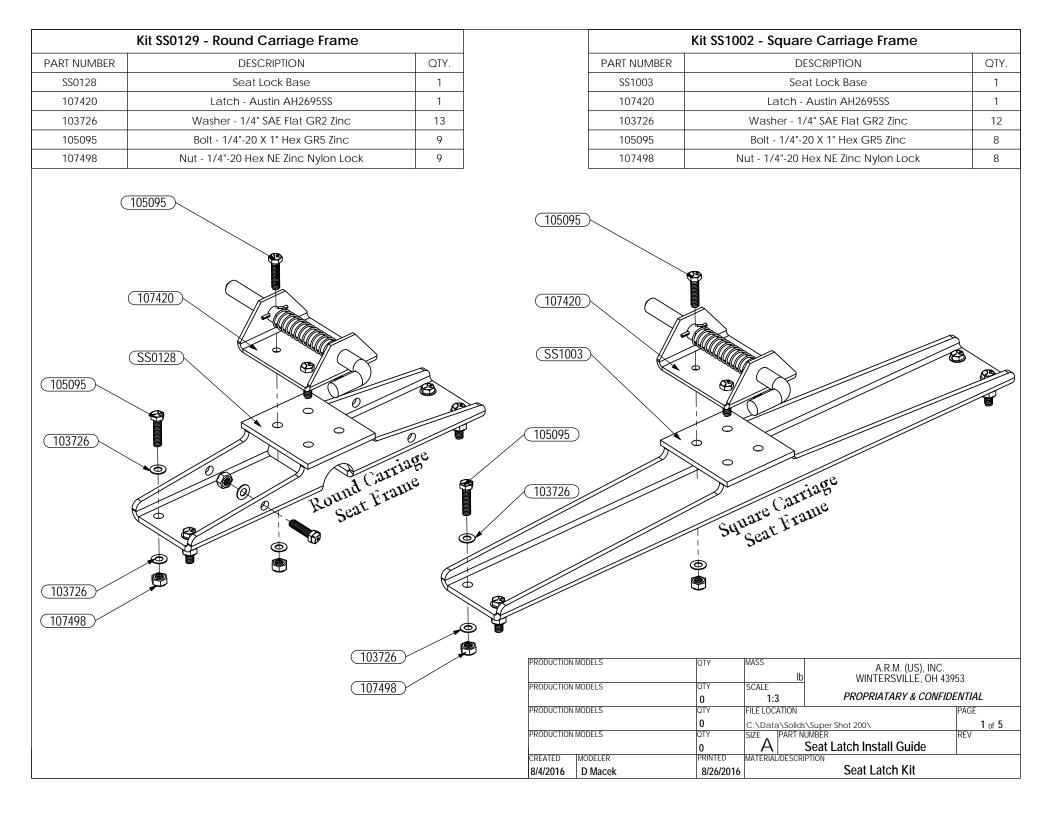
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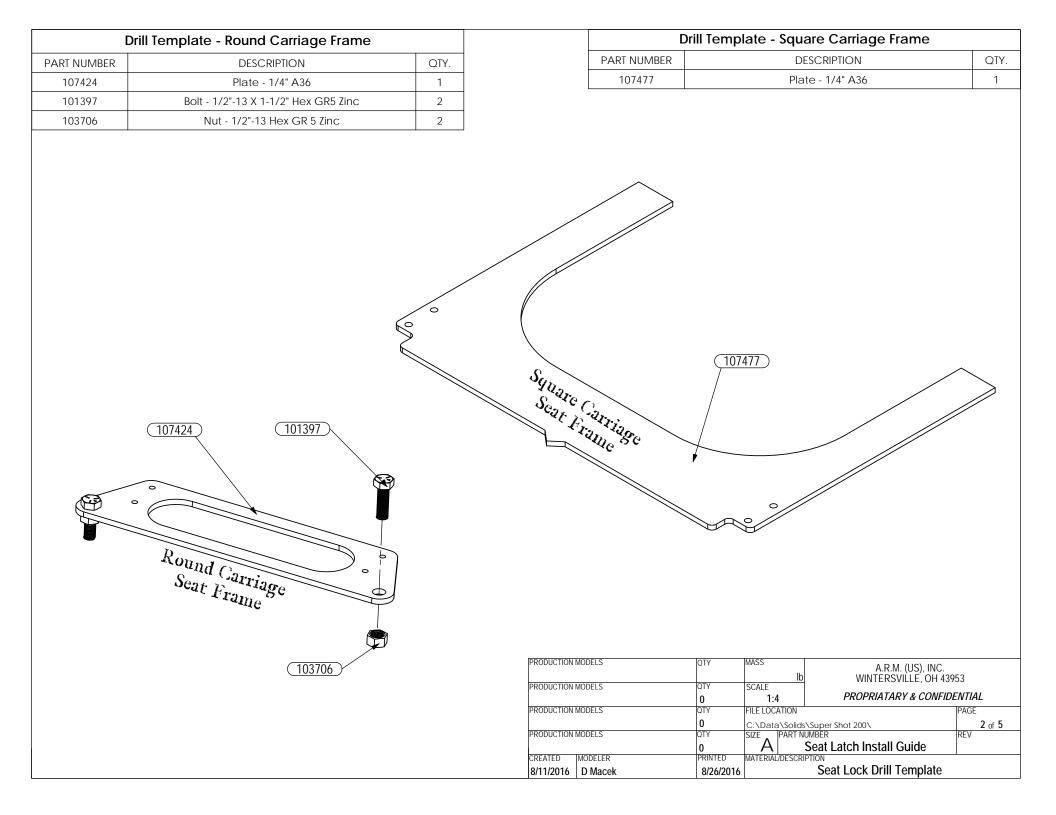
Certification of Compliance

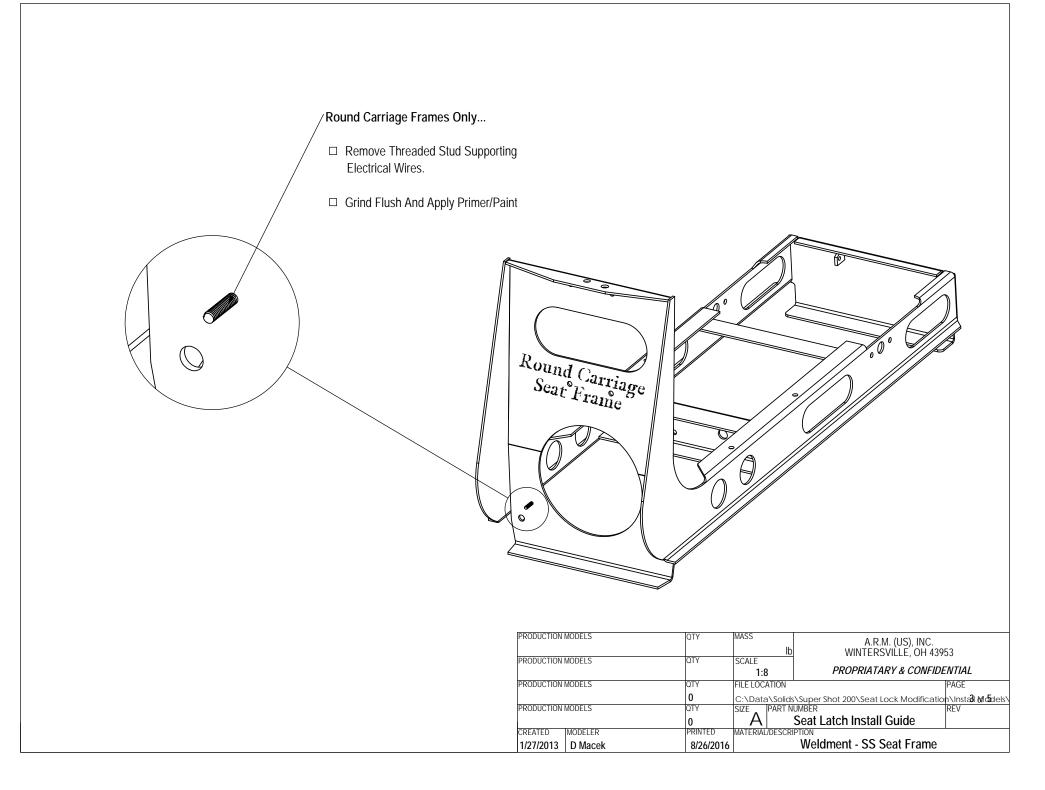
Operation Of Ride To Cease If This Certification Of Compliance Has Not Been Executed And Received By A.R.M. (USA), Inc. By The Completion Date Of This Service Bulletin.

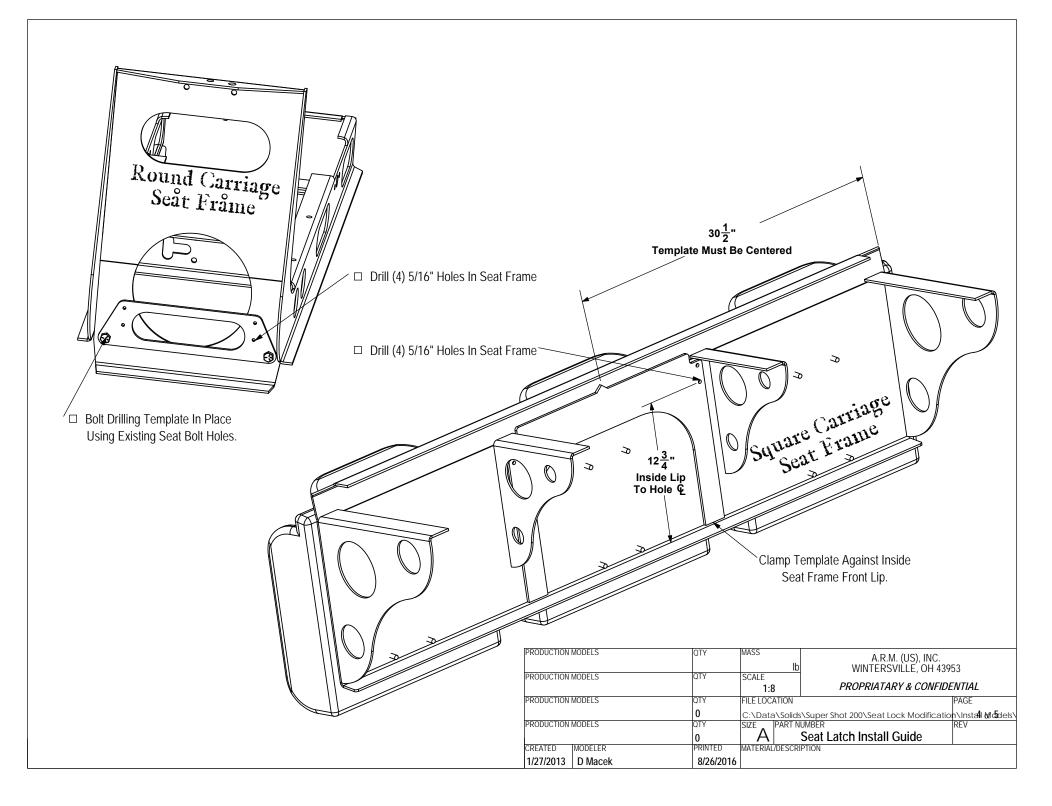
- 1. The Super Shot passenger seat secondary latch kit has been installed per instructions included in Service Bulletin SB20180221;
- 2. All seat attachment bolts, washers and nuts have been replaced and torqued to 60lb/ft;
- 3. Inspection protocol has been modified to include daily visual inspection of the secondary latches, mounting hardware and fasteners.
- 4. Maintenance protocol has been modified to include annual replacement of all seat attachment bolts.

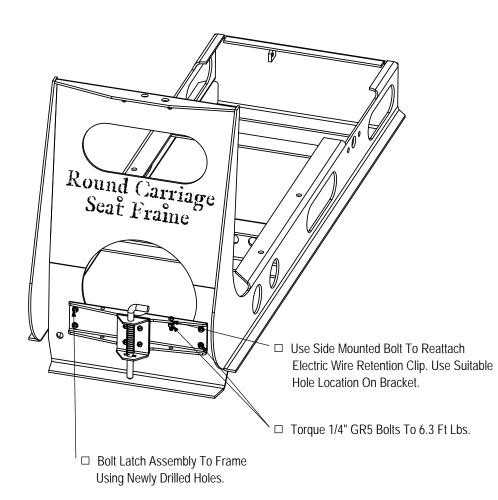
| | Compliance Completion Date | |
|---|----------------------------|-----------------|
| Ride Specifics Ride Serial Number | Owner / D | perator |
| Representative Credentials Printed Name | Title | Signature |
| Submit completed Ce FAX: A.R.M. (USA), Inc 1506 Fernwood Rd Wintersville, OH 4395 armbulletin@armrides 740.266.2953 FAX | | nail, e-mail or |

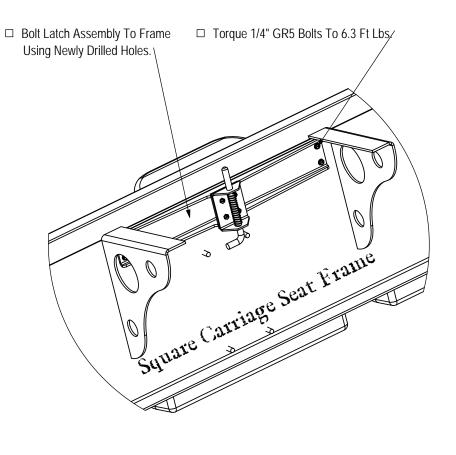












| PRODUCTION MODELS | QTY | MASS | A.R.M. (US), INC. |
|-------------------|-----------|----------------|--|
| | | lb | WINTERSVILLE, OH 43953 |
| PRODUCTION MODELS | QTY | SCALE | |
| | | 1:8 | PROPRIATARY & CONFIDENTIAL |
| PRODUCTION MODELS | QTY | FILE LOCATION | PAGE |
| | 0 | C:\Data\Solids | s\Super Shot 200\Seat Lock Modification\Insta b Mad dels\ |
| PRODUCTION MODELS | QTY | SIZE PART N | UMBER REV |
| | 0 | | Seat Latch Install Guide |
| CREATED MODELER | PRINTED | MATERIAL/DESCR | IPTION |
| 1/27/2013 D Macek | 8/26/2016 | | |