

NEXTGEN (CRS) <u>Child Restraint Seat Operation Explained</u> Tech Tip #19-1019REVC



ARE YOU AWARE OF HOW THE NEXTGEN CHILD RESTRAINT SEATS OPERATE?

We have had inquires concerning the operation of the restraint belts and specifically the "locking" of these bests. HSM has detailed the operation of these belts in the attached document.



I/CEW-CADSVR/Enginee NEXTGEN/Drawings//NS-198.id/



INSTRUCTIONS

RESTRAINING OCCUPANT & OPERATING BELTS: L. ATTACH ICS BELT TONGUES INTO ICS UPPER BELT BUCKLES WITHIN SEAT BACK PILLOW HEAD REST. TUG BELT STRAPS TO

ENSURE BUCKLE ENGAGEMENT. CBNTER OCCUPANT BETWEEN ICS BELTS & LOWER ICS BUCKLE.

LOCATE THE ICS BELT RETRACTOR TONGUES IN ICS BELT TONGUE STORAGE POCKET, THEN FULLY EXTEND BELTS UPWARD

(SEE ILL #1).

NOTE: BELTS AT FULL EXTENSION WILL ENGAGE THE SECONDARY LOCKING FEATURE

ICS BELT TONGUE STORAGE POCKET-

SEAT BACK PILLOW HEAD REST

ICS BELT RETRACTOR (TONGUE)

ICS UPPER BELT BUCKLE-

ICS RETRACTOR BELT-

THE ICS BELTS WILL RETRACT TO FIT SNUGLY ON OCCUPANT. A RATCHET NOISE IS AUDIBLE WHEN BELTS

NOTE: THE BELTS WILL ONLY RETRACT AND NOT EXTEND WHEN ENGAGED IN USE. THIS PREVENT SEXTENSION

WHEN IN USE AND KEEPS OCCUPANT SECURED.

6. SECURE LOWER RESTRAINT BELT BUCKLE TO ICS FREE FLOATING TONGUES.

7. CONNECT CHEST CUPS TO ONE ANOTHER AND LOCATE ACROSS CHEST JUST BELOW ARM PIT LEVEL

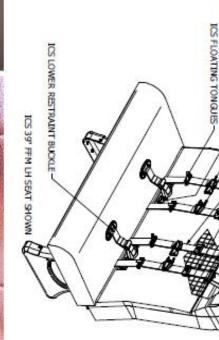
8. CHECK THAT OCCUPANT IS RESTRAINED WITH BELT HARNESS FITTING SNUG.

REMOVING RESTRAINED OCCUPANT AND STOWING BELTS:

 DISENGAGE LOWER RESTRAINT BELT BUCKLE FROM ICS FLOATING TONGUES.
 DISCONNECT CHEST CLIPS AND REMOVE OCCUPANT.
 TO STOW ICS BELTS, START AT SEAT BACK HEAD REST TO DISENGAGE ICS BELT TONGUES FROM ICS UPPER BELT BUCKLES

4. FULLY RETRACT EACH ICS BELT TOWARD THE SEAT BITE.

NOTE: IF NEXT OCCUPANT REQUIRES ICS BELT HARNESS, BELTS DO NOT HAVE TO BE STOWED. 5. PLACE ICS BELT TONGUES INTO ICS BELT TONGUE STORAGE POCKET & PLACE ICS LOWER RESTRAINT BUCKLE INTO SEAT BITE. (SEE ILL #2)





SEAT BIT



	ı	ĺ	ı	ı		Q	
(0)	STORY CORE.	9838380	Of the same	MINAME IN S.	The special property of
ANDLES & 3	20. 1 . 10.	****	VETTO 1	1940	0.000 (0.000	193	(N)
		HOLEDIAMETER	NCES UNLESS OTHERW	Passenger September 5	SWOLL STRIKE	NEXTGEN ICS BEL	OCCUPATION OF STREET PROPERTY OF
1.38	CHAT MOURAGE BY	S00160006	OBLEDBAS 199A			LT RETRACTOR	O DE PROPERTIES.
1.1/38	2012 (2005)	200,000	THE COMPA				And designed for



FRONT VIEW

SIDE VIEW

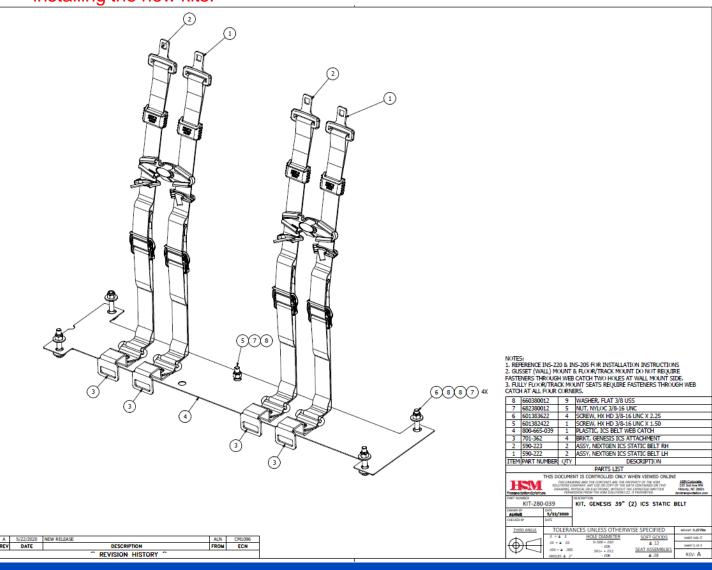


UPDATE – October 19, 2020

HSM has changed to a "STATIC" designed belt system for these seats and has available a "Retrofit" kit which addresses the issue which we have heard from some customers about where the retractor becomes locked.

The change requires installation of new belts and a plastic tray acting as a catch for the belts, so they do not hang below the seat.

Below is a diagram of the belts and the following 4 pages are instructions on installing the new kits.











Service Campaign Title:

Genesis ICS & 3PT/ICS Belt Install

Document Reference# INS-220 SRP #: 2000-0003 & INS-205

		KIT#:	KIT-280	
Author's Name:	Department:	Date Created: REV LVL: REV I		REV Date:
ALN	Engineering	5/20/2020	Α (5/20/2020

HSM Product Models Impacted:	GENESIS ICS & 3PT/ICS all sizes		
Issue Being Addressed:	ICS Static belts replacing ICS Retractable belts		
Remedy:	Removal of retractable belts with replacement of static belts.		

Tools Required:				
Item:	QTY:	Description:		
Impact Drill	1	Cordless Drill w/ Battery		
Socket	1	Power Socket, Hex Head 5/8"		
Socket	1	Power Socket, Hex Head 7/8"		
Wrench	1	Wrench 5/8		
Wrench	1	Wrench 7/8		

Parts Requ	uired:		
Item:	QTY:	Part #:	Description:
ICS Static	1-2	590-222	Belt, ICS Static Belt LH (Reference KIT-280-XXX for visual)
belt LH			
ICS Static	1-2	590-223	Belt, ICS Static Belt RH (Reference KIT-280-XXX for visual)
belt RH			
Web Catch	1	800-665-039	Web Catch (Reference KIT-280-XXX for visual)
ICS Brkt	2-4	701-362	Brkt, Genesis ICS Attachment (Reference KIT-280-XXX for visual)
Fastener	1	601382422	Bolt, 3/8-16 x 1.50
Fastener	2-4	601383622	Bolt, 3/8-16 x 2.25
Fastener	2-4	682380012	Nut, Nyloc 3/8-16 UNC
Fastener	2-4	601442022	Bolt, 7/16-20 x 1.25
Fastener	2-4	660440012	Washer, 7-16 USS
Fastener	2-4	600-505	Nut, 7-16-20 UNC Serrated Flange
Cushion Key	1	600-640	Genesis Cushion Key







ehicle Preparation(s): The vehicle should be parked on a flat level surface.

- The vehicle ignition must be in the OFF position. 2

SET AND PULL OUT TO DISENGAGE.

- The vehicle park brake must be engaged and wheel chocks utilized.
- Ensure adequate lighting is used during service operation.

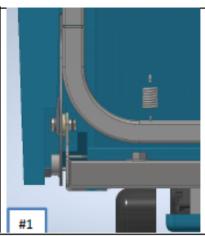
L 015.0		Carlo Pack	C P 1
14 24 11 12			
	 		9 6 7 9 9

2

Step:	Description:	Ref Image / Other:
1	ASSURE ALL NEEDED PARTS/ITEMS ARE AVAILABLE.	
	UNLOCK CUSHION AND PLACE IN UPWARD POSITION. TO UNLOCK	PLACE KEY IN PLUNGER, TWIST TO

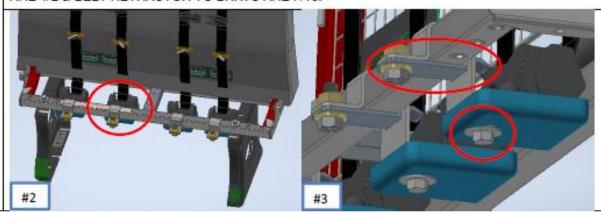
SOME SEAT SIZES, MOUNTING CONDITIONS & PERSONAL PREFERENCE WILL REQUIRE THE CUSHION TO BE REMOVED. TO REMOVE CUSHION, USE NEEDLE NOSE PLIERS TO REMOVE 2A. RETAINING CLIP FROM CLEVIS PIN. PUSH CLEVIS PIN OUTWARD WITH HAND. RETAIN PLASTIC WASHER THAT IS BETWEEN CUSHION.

FRAME & SEAT FRAME. REPEAT ON OPPOSITE SIDE OF CUSHION.



REMOVE ALL ICS RETRACTABLE BELTS, BRKTS & FASTENERS USED; THERE WILL BE 1-2 SETS. SEE VIEW #2. KEEP ACCESSORY PLATES 700-849 & 7/16 FASTENERS: 601442022, 660440012 & 600-505. SEE VIEW #3.

USE IMPACT WITH SOCKET SIZES 5/8 & 7/8, ALONG WITH WRENCHES, FASTENERS USED AT FRONT ARE 1/2 & BELT RETRACTOR TO BRKTS ARE 7/16.



ALL of our Service Updates can be found on the New York Bus Sales website Or at the New York Head Mechanic website



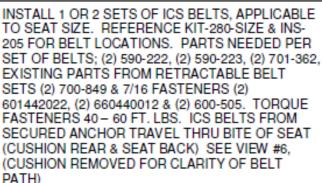
3.

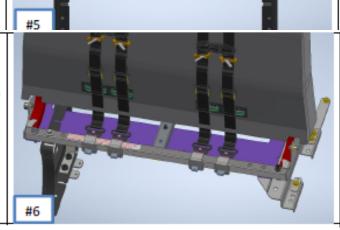




REFERENCE INS-205 & KIT-280-SIZE, MATCH SEAT SIZE & MOUNTING CONDITION TO VIEW ON DRAWINGS. 4. FOLLOW 5B FOR GUSSET MOUNT (WALL MOUNT) & FLOOR MOUNT. FOLLOW 5C FOR FULLY FLOOR/TRACK MOUNT. INSTALL WEB CATCH & ATTACH USING 3/8 FASTENERS. FASTENER REQUIREMENTS ARE (2) 601383622. (1) 601382422, (5) 660380012 & (3) 682380012, ORIENT WEB CATCH BY PLACING HALF CIRCLE CUTOUT TOWARD BUS WALL & HOLES TOWARD FRONT OF SEAT. SLIP END OF WEB CATCH BETWEEN FRAME BOTTOM AND TOP OF WALL MOUNT. MAY REQUIRE LOOSENING WALL MOUNT FROM 5B. SEAT FRAME USING IMPACT WITH 7/8 SOCKET & WRENCH. MAY ALSO REQUIRE LOOSENING LEG FROM SEAT FRAME USING IMPACT WITH 5/8 SOCKET & WRENCH. ASSURE EXISTING FASTENERS ARE TORQUED 40-60 FT. LBS. WALL MOUNT SIDE OF WEB CATCH DOES NOT REQUIRE FASTENERS. SEE VIEW #4 INSTALL WEB CATCH & ATTACH USING 3/8 FASTENERS. FASTENER REQUIREMENTS ARE (4) 601383622, (1) 601382422, (9) 660380012 & (5) 682380012. ORIENT WEB CATCH BY PLACING HALF CIRCLE CUTOUT TOWARD BUS WALL & SC. HOLES TOWARD FRONT OF SEAT. MAY REQUIRE LOOSENING LEG FROM SEAT FRAME USING IMPACT WITH 5/8 SOCKET & WRENCH, ALL FOUR

CORNERS OF WEB CATCH WILL BE SECURED WITH FASTENERS.





ALL of our Service Updates can be found on the New York Bus Sales website Or at the New York Head Mechanic website



6.





7.	IF CUSHION IS LOCKED IN UPWARD POSITION, USE KEY TO UNLOCK. VERIFY CUSHION FLIP FEATURE IS OPERABLE. LAST, LOCK CUSHION IN DOWNARD POSITION. IF CUSHION IS ALREADY IN DOWNWARD POSITION, ASSURE FLIP FEATURE IS OPERABLE & THEN LOCK INTO DOWNWARD POSITION.
7A.	TO REINSTALL CUSHION, LOCATE CUSHION BETWEEN FRAME GUSSETS & ALIGN CLEVIS PIN HOLES. PLACE PLASTIC WASHER IN BETWEEN CUSHION FRAME & SEAT FRAME, INSERT CLEVIS PIN FROM OUTER FRAME TOWARD MIDDLE OF SEAT. REPEAT ON OPPOSITE SIDE OF CUSHION. SECURE RETAINING CLIPS TO CLEVIS PIN USING NEEDLE NOSE PLIERS. SEE VIEW #1 VERIFY CUSHION FLIP FEATURE IS OPERABLE. LAST, LOCK CUSHION IN DOWNARD POSITION.
8.	INSPECT SEAT, ASSURE ALL APPLICABLE STEPS HAVE BEEN COMPLETED AND SEAT FINISHES AESTHETICALLY.

PLEASE NOTE: This particular set up is for a 39" seat, should you be working with a different width seat the "web catch" would be a different part number





CONTACT OUR SERVICE OR PARTS DEPARTMENT WITH ANY QUESTIONS

SERVICE Director of Service

Ryan Hemund rhemund@newyorkbussales.com CFLL 315-561-9121

Chittenango: 800-962-5768

Daryl Wallace dwallace@newyorkbussales.com

Brian Lamaitis blamaitis@newyorkbussales.com

Bob Reith breith@newyorkbussales.com

Phil Tucker ptucker@newyorkbussales.com

Albany: 866-867-1100

Ben Reiling breiling@newyorkbussales.com

Rochester: 800-463-3232

Brandon Shepard bshepard@newyorkbussales.com

Middletown: 845-609-7070

Moncia McDonald mmcdonald@newyorkbussales.com **PARTS**

Director of Parts

Dave Reichel dreichel@newyorkbussales.com CELL 315-396-5709

Chittenango: 800-962-5768

Gari McQuade gmcquade@newyorkbussales.com

Bill Cox bcox@newyorkbussales.com

Dave Grant dgrant@newyorkbussales.com

John Lewin jlewin@newyorkbussales.com

Albany/Middletown: 866-867-1100

Sean Conway
sconway@newyorkbussales.com
Dan Haight
dhaight@newyorkbussales.com

Rochester: 800-463-3232

James Roeser <u>jroeser@newyorkbussales.com</u>

Steve Hibbard shibbard@newyorkbussales.com

