Eric's Car of the Month
September, 2008

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Applicable initials and number series

Initials	Numbers
JTTX	155594-155709
JTTX	353006-354142
KTTX	155591-155717
MTTX	155645-155730
PTTX	155594-155722
RTTX	155583-155732
TTEX	161000-161199
TTEX	353000-354149
TTX	155583-155732

The main photograph section follows the data section.

Builder information

Builder: Bethlehem Steel Corporation
Location: Johnstown, PA
Date: 4 to 6-68
Order: ?

Comments

The design is similar to thousands of 89' flat cars built by Bethlehem from 1963 and 1968. Two definitive characteristics are the structural channel side sill and ten crossmembers with end plates. A portion of each end plate extends below the bottom of the side sill and is easily seen. The number, size, shape and spacing of the plates is significant. Cars of this general design were built primarily for Trailer Train, and also for about a half dozen railroads. Many were equipped with hydraulic cushioning.

TTX 155583-155732 (class F89X) are unique. They have friction draft gear and are 89' 4" long, a change from the old standard of 89' 0" introduced in late 1967. All other 89' 4" cars of this general design have hydraulic cushioning (Trailer Train class F89XH).

Unfortunately, I was unable to find a reliable way to differentiate between the two lengths in photographs. So, while it is possible that some of the F89X class cars were used in the TTEX rebuilding program, especially in the 353000s, it hasn't been proven.

Most of these cars were modified in some way as detailed below as shippers' needs changed.

Specialties

TTX initials, code P712 (original)
two trailer hitches, bridge plates
for two 40' trailers with 8' 0" tandems
friction draft gear

TTX initials, code P812
two trailer hitches, bridge plates
for two 40' trailers with 8' 6" tandems

KTTX initials, code P834
two trailer hitches, no bridge plates
for two trailers with 8' 6" tandems, up 90' total length

RTTX initials, code P836
three trailer hitches, no bridge plates
for two 45' or three 28' trailers with 8' 6" tandems

MTTX initials, code F114
end bulkheads for rail, etc.

(continued on next page)

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File created: 9/1/2008
Document: ESF10082

Specialties (continued)

JTTX initials, code F116
unspecified special equipment, however
eight were equipped like PTTX

PTTX initials, code F116
12 risers, 12 winches and 72 tie downs for pipe

TTEX 161000 series, code Q127
semi-permanently coupled pairs with five hitches
suitable for three 57' or four 45' trailers

TTEX 353000 series, code Q128
semi-permanently coupled pairs with three hitches
suitable for three 57' trailers

Original dimensions and car codes

Inside length:	89' 4"
Inside width:	8' 6"
Inside height:	
Length over strikers:	
Coupled length:	92' 9"
Width over eaves or top of sides/platform:	
Extreme width:	10' 4"
Height to extreme width:	6' 0"
Height to top of platform:	3' 6"
Extreme height:	7' 8"
Truck centers:	
Stencilled capacity in pounds:	130000?
Average load limit:	147600
Average light weight:	72400
Gross rail load:	220000
Mechanical designation:	FC
Car type code:	P712

Contributors

- Eric Neubauer (originator)
- Dave Casdorph
- Tim Frederick

Programs

Old		New	Numbering	Quantity		Date
TTX 155598-155731	from	code P712 to P812	no change	(55+)	in	1984-1989
TTX 155585-155730	to	RTTX 155585-155730	new initials	(54+)	in	1986-1987
TTX **155591-155717**	to	KTTX **155591-155717**	new initials	(21)	in	1987-1988
TTX 155583-155732?	to	TTEX 161000-161199	random?	(?)	in	1987-1989
TTX 155605	to	JTTX **155605**	**new initials**	**(1)**	**in**	**1991**
TTX 155583-155732?	to	TTEX 353000+353149	random?	(?)	in	1992-1993
TTX 155614, 155658	to	RTTX 155614, 155658	new initials	(2)	in	1995
KTTX 155591-155663	to	RTTX 155591-155663	new initials	(3)	in	1995
TTX **155594, 155680**	to	JTTX **155594, 155680**	**new initials**	**(2)**	**in**	**1998**
KTTX **155607-155709**	to	JTTX **155607-155709**	**new initials**	**(6)**	**in**	**1998**
TTX 155645	**to**	**MTTX 155645**	**new initials**	**(1)**	**in**	**1998**
TTEX 363006-353142	**to**	**JTTX 363006-353142**	**new initials**	**(?)**	**in**	**2001**
JTTX 155594-155709	**to**	**PTTX 155594-155709**	**new initials**	(7)	**in**	**2005-2006**
RTTX 155596-155722	to	PTTX 155596-155722	**new initials**	(32)	in	2006-2007
RTTX 155676, 155730	**to**	**MTTX 155676, 155730**	**new initials**	**(2)**	**in**	**2007**

- KTTX 155591, 155599-155600, 155607, 155619-155620, 155623-155624, 155634, 155639, 155641, 155656, 155663, 155684, 155689, 155693, 155700, 155707, 155709, 155717, 155732 (21)
- RTTX 155585, 155595-155597, 155602, 155604, 155606, 155611-155612, 155617, 155621, 155626, 155628, 155630, 155637, 155646, 155650-155651, 155659, 155662, 155664, 155667-155670, 155672, 155676-155677, 155679, 155681-155682, 155688, 155690, 155692, 155697-155698, 155701-155702, 155704-155705, 155708, 155710, 155713-155715, 155719, 155721-155722, 155727-155728, 155730 (51) in 1986-1987; RTTX 155591, 155614, 155623, 155658, 155663 (5) in 1995
- JTTX 155594, 155605, 155607, 155620, 155623, 155689, 155693, 155700, 155709 (9); JTTX 155605, 155700 retired; JTTX 155594, 155607, 155620+155693 (4) to PTTX in 2005; JTTX 155620+155693, 155709 (3) to PTTX in 2006
- PTTX 155594, 155596, 155606, 155607, 155611-155612, 155617, 155620, 155621, 155623, 155626, 155628, 155630, 155637, 155646, 155650-155651, 155658, 155662, 155664, 155669, 155672, 155677, 155680, 155681-155682, 155689, 155692, 155693, 155697, 155701-155702, 155705, 155709, 155714-155715, 155719, 155721-155722 (39)

More dimensions and car codes

Series	Desig.	Code	I.L.	I.W.	C.L.	Ex.W.	H.	P.H.	Ex.H.
JTTX 155605	FMS	F116	89' 0"	8' 6"	92' 8"	10' 2"	6' 0"	3' 6"	7' 8"
JTTX 155594-155709	FMS	F116	89' 1"	8' 2"	92' 8"	10' 6"	4' 10"	3' 6"	4' 10"
MTTX 155645	FMS	F114	83' 0"	7' 2"	92' 8"	10' 2"	6' 0"	3' 6"	6' 6"
MTTX 155676,155730	FMS	F114	83' 0"	7' 2"	92' 9"	10' 4"	6' 0"	3' 6"	3' 6"
PTTX 155594-155722	FMS	F116	89' 1"	8' 2"	92' 8"	10' 6"	4' 10"	3' 6"	4' 10"

Renumbering key

- "consecutive" renumbering uses a chart with both old and new numbers listed in increasing order. Vacant numbers are included so that the old and new numbers always differ by the same amount.
- "in order" renumbering uses a chart with both old and new numbers listed in increasing order. Vacant numbers are excluded so that the old and new numbers differ by varying amounts.
- "at random" renumbering is on a first come, first served basis and does not use an organized renumbering chart.

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Document: ESF10082

Annual quantities in service

Initials	Numbers	1-45	1-46	1-47	1-48	1-49	1-50	1-51	1-52	1-53	1-54	1-55	1-56	1-57	1-58	1-59	1-60	1-61	1-62	1-63	1-64	1-65	1-66	1-67	1-68	1-69
TTX	155583-155732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150

Initials	Numbers	1-70	1-71	1-72	1-73	1-74	1-75	1-76	1-77	1-78	1-79	1-80	1-81	1-82	1-83	1-84	1-85	1-86	1-87	1-88	1-89	1-90	1-91	1-92	1-93	1-94
JTTX	**155594-155709**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**
KTTX	**155591-155717**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**21**	**20**	**20**	**20**	**12**	**12**
RTTX	155585-155730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	51	51	49	49	49	47	45
TTEX	161000-161199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	174	200	197	197	197	197
TTEX	353000-354149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245	1056
TTX	155583-155732	150	150	150	149	148	148	148	148?	146	146	146	145	145	144	143	143	142	110	70	65	65	53	25	8	8
	(code P812)															(0)	(26)	(33)	(32)	(24)	(31)	(42)	(35)	(19)	(6)	(6)

Initials	Numbers	1-95	1-96	1-97	1-98	1-99	1-00	1-01	1-02	1-03	1-04	1-05	1-06	1-07	1-08	1-09	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
JTTX	**155594-155709**	**1**	**1**	**1**	**1**	**9**	**9**	**9**	**9**	**8**	**8**	**8**	**4**	**0**	**0**											
JTTX	**353006-354142**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**119**	**119**	**116**	**115**	**115**	**115**	**115**											
KTTX	**155591-155717**	**12**	**9**	**9**	**9**	**3**	**3**	**3**	**3**	**2**	**1**	**1**	**0**	**0**	**0**											
MTTX	**155645-155730**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**3**											
PTTX	**155594-155722**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**27**	**39**											
RTTX	155583-155732	45	50	50	50	50	49	49	48	48	48	48	48	27	13											
TTEX	161000-161199	197	195	190	189	188	185	184	167	145	139	134	132	129	129											
TTEX	353000-354149	1051	1027	1025	1023	1021	1014	1008	883	873	871	857	848	848	707											
TTX	**155583-155732**	**8**	**6**	**6**	**6**	**3**	**3**	**3**	**3**	**3**	**2**	**1**	**0**	**0**	**0**											
	(code P812)	**(6)**	**(5)**	**(5)**	**(5)**	**(2)**	**(2)**	**(2)**	**(2)**	**(2)**	**(2)**	**(1)**	**(0)**													

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File created: 9/1/2008
Document: ESF10082

Original data

Number	Lt. wt.	Built
155585		4-68 a
155607		4-68 a
155626		4-68 a
155637		4-68 a
155659		5-68 a
155662		5-68 a
155681		5-68? a
155683		-68 a
155688		5-68 a
155699		6-68 o
155714		6-68 a
155723		6-68 a
155732		8-68 a

TTX data

Number	Lt. wt.	Code
155638		P712
155661*	72400	P812
155699*	72400	P812

TTX 155638 is not in either database, but was listed in the 1-03 *Register*

JTTX data

Number	Lt. wt.
155605*	72400

KTTX data

Number	Lt. wt.	Code
155634*	71000	P834

MTTX data

Number	Lt. wt.
155645	77100
155676	77300
155730	74500

PTTX data

Number	Lt. wt.
155594	73200
155596	70000
155606	70000
155607	75100
155611	71000
155612	70000
155617	70000
155620	73700
155621	70000
155623	70100
155626	70000
155628	71000
155630	70000
155637	70000
155646	70000
155650	70300
155651	69400
155658	69600
155662	71000
155664	75300
155669	75300
155672	75300
155677	69400
155680	76500
155681	69700
155682	70000
155689	74400
155692	69100
155693	71000
155697	68700
155701	75000
155702	70000
155705	70000
155709	75100
155714	71000
155715	75300
155719	70400
155721	71000
155722	71200

RTTX data

Number	Lt. wt.	Code
155585	71000	P836
155591	71000	P836
155597	71000	P836
155614	72300	P836
155659	71000	P836
155663	71000	P836
155667	71000	P836
155668	71000	P836
155679	71000	P836
155688	71000	P836
155704	71000	P836
155710	71000	P836
155713	71000	P836
155728*	71000	P836

Symbol key

Sym.	Description
a	from actual observation
o	from official record
p	from logical projection
s	from serial number
w	from weight comparison
!	confirmed data
[ ]	changed data
*	found in CSX but not BNSF car characteristics

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File created: 9/1/2008
Document: ESF10082

New equipment

Number	P812	P834	P836	F114	F116	vacant
155583						1991
155584						
155585			1986			>2007
155586						1992
155587						
155588	1984					
155589						
155590						1990
155591		1987	1995			>2007
155592	1986					
155593						
155594	1986				1998	>2007
155595			1986			1993
155596	1984		1986		2007	>2007
155597			1987			>2007
155598	1987					
155599		1987				
155600		1988				1992
155601	1988					
155602	1985		1987			1999
155603	1985					
155604			1986			1989
155605					1991	2006
155606	1985		1987		2007	>2007
155607		1988			1998	>2007
155608						
155609	1988					
155610	1988					
155611			1986		2006	>2007
155612			1987		2006	>2007
155613						
155614			1995			>2007
155615						1990
155616						1992
155617			1987		2007	>2007
155618						1990
155619		1988				1992
155620	1984	1987			1998	>2007
155621	1984		1986		2007	>2007
155622						
155623		1988	1995		2007	>2007
155624	1984	1987				1992
155625	1986					
155626	1984		1987		2007	>2007
155627	1986					
155628			1987		2006	>2007
155629						1989
155630			1986		2007	>2007
155631						
155632						

Number	P812	P834	P836	F114	F116	vacant
155633	1986					
155634		1987				2005
155635						
155636	1986					
155637	1984		1986		2007	>2007
155638						2003
155639		1987				1992
155640	1984					
155641		1987				1992
155642						
155643						
155644						1990
155645	1989?			1998		>2007
155646			1987		2006	>2007
155647						
155648						
155649						1992
155650			1986		2006	>2007
155651			1986		2006	>2007
155652						
155653						1989
155654	1986					
155655						
155656		1987				1992
155657						1992
155658	1984		1995		2007	>2007
155659			1986			>2007
155660	1984					
155661	1984					2004-5
155662	1986		1987		2006	>2007
155663		1987	1995			>2007
155664			1986		2006	>2007
155665						
155666	1984					
155667			1986			>2007
155668	1986		1986			>2007
155669			1987		2006	>2007
155670			1987			1992
155671	1984					
155672	1984		1986		2006	>2007
155673	1984					
155674	1984					
155675						1992
155676	1985		1986	2007		>2007
155677			1987		2006	>2007
155678						1990
155679	1984		1986			>2007
155680	1988				1998?	>2007
155681			1986		2006	>2007
155682			1986		2007	>2007

Number	P812	P834	P836	F114	F116	vacant
155683						
155684	1985	1987				1989
155685						1990
155686						
155687	1986					
155688			1987			>2007
155689		1987			1998?	>2007
155690	1984		1986			1993
155691						
155692			1987		2006	>2007
155693		1987			1998	>2007
155694	1988					
155695						1990
155696	1987					
155697	1984		1986		2007	>2007
155698			1986			1989
155699	1989?					2004-5
155700		1987			1998	2002
155701			1987		2006	>2007
155702	1985		1986		2007	>2007
155703						1990
155704			1986			>2007
155705			1986		2006	>2007
155706	1986					
155707		1987				1992
155708			1987			1992
155709	1984	1987			1998	>2007
155710			1987			>2007
155711						
155712						1989
155713	1984		1987			>2007
155714			1986		2006	>2007
155715			1986		2006	>2007
155716						1990
155717	1984	1988				
155718	1988					
155719			1987		2006	>2007
155720						
155721	1984		1986		2006	>2007
155722			1987		2006	>2007
155723						1989
155724	1985					
155725						
155726	1984					
155727	1984		1986			2001
155728			1987			2006
155729						1989
155730	1984		1986	2007		>2007
155731	1988					
155732		1987				1992

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File created: 9/1/2008
Document: ESF10082

KTTX 154923 (class F89F) was at South Bethlehem, PA on April 20, 2005. It is marked "Twin 45".
While it is from a different series and class, it illustrates how KTTX 155591-155717 looked. It is loaded with one 28' and one 48' trailer.
Photographer: Eric A. Neubauer

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RTTX 155710, nee TTX 155710, was at Altoona, PA on September 7, 2007. Cars with RTTX initials are marked "Triple 28 / Twin 45".
This car is loaded with one 45' and one 28' trailer, and illustrates the right side of an F89X.
Photographer: Eric A. Neubauer

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RTTX 155667 and 155702, nee TTX 155667 and 155702, were at South Bethlehem, PA on November 19, 2005, and November 26, 2004, respectively.
Both are loaded with one 53' trailer, and show the left side of the car. The weight of the car is approximately the same as the loaded trailer resulting in an undesirably low load to light weight ratio. RTTX 155702 was subsequently equipped for pipe loading and relettered PTTX in 2007.
Photographer: Eric A. Neubauer

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MTTX 930028 (class F89FH) was at South Bethlehem, PA on January 10, 2008.
While it is from a different series and class, it illustrates approximately how MTTX 155645-155730 looked. This car differs in having hydraulic cushioning. In addition, 12 rectangular brackets between the flanges of the side sill remain from car's original, tri-level auto racks. No F89Xs were ever equipped with auto racks.
Photographer: Eric A. Neubauer

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Document: ESF10082

JTTX 152532 (class F89F) was at South Bethlehem, PA on January 7, 2005. It is equipped with 12 winches and 72 tie downs. The hand brake is original.
While it is from a different series and class, it may illustrate how JTTX 155605 looked. The other eight F89X cars with JTTX initials looked like PTTX 155662 on the following page.
Photographer: Eric A. Neubauer

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PTTX 155662 (class 89XP), former RTTX 155662, nee TTX 155662, was at South Bethlehem, PA on July 9, 2008.
It was equipped with 12 risers, 12 winches, and 72 tie-downs for pipe loading in 2007. A new hand brake and revised safety appliances were installed at the same time.
Photographer: Eric A. Neubauer

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Document: ESF10082

TTEX 161004 was at South Bethlehem, PA on November 2, 2005. The two units are coupled with a drawbar. Only the B unit has a hand brake, which is not the original. The safety appliances have also been modified. It is loaded with four 45' trailers, a rare circumstance in 2005. An additional hitch used for triple 57 loading is retracted. Quantities in the *Register* suggest that most, or all, of TTEX 161000-161199 were taken from the F89F class, and few, if any, from the F89X class.
Photographer: Eric A. Neubauer

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Document: ESF10082

TTEX 161074, class F89F 2, was at South Bethlehem, PA on December 10, 2006. TTEX 161000-161199 are marked "Long Runner" and "Triple 57".
The hitches on this car set up for triple 57 loading. The other two hitches used for quad 45 loading are retracted.
Photographer: Eric A. Neubauer

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Document: ESF10082

TTEX 353855 was at South Bethlehem, PA on March 30, 2005. It is marked "Long Runner" and "Triple 53". Most of the TTEX 353000s are made up of two flush deck cars. However, a significant number are made up of two different styles of cars, notably scattered throughout the 353517-353654 and 353770-354049 areas. Quantities in the *Register* suggest that the older style units came from both the F89F and F89X classes. Drawbar, brake and safety appliance modifications are similar to the TTEX 161000 series.
Photographer: Eric A. Neubauer

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