



Smithsonian

National Museum of American History Kenneth E. Behring Center

Preliminary Guide to the McIntosh, Seymour and Company Records

NMAH.AC.0985

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	McIntosh, Seymour and Company Records
Identifier:	NMAH.AC.0985
Date:	circa 1886-1939
Creator:	McIntosh, Seymour and Company (Creator)
Source:	National Museum of American History (U.S.). Division of Mechanical and Civil Engineering (Collector) National Museum of American History (U.S.). Division of History of Technology (Collector)
Extent:	93.6 Cubic feet (174 boxes)
Language:	English .
Summary:	The records document the design, manufacture, and operation of steam and diesel engines by McIntosh, Seymour and Company of Auburn, New York.

Administrative Information

Acquisition Information

Originally collected for the division of Mechanical and Civil Engineering (now the Division of Work and Industry). Exact date and source of acquisition unknown.

Provenance

Transferred to the Archives Center from the Division of Work and Industry, 2006.

Processing Information

Collection processed by John Smith; supervised by Jane Jones, archivist, January 2004.

Preferred Citation

McIntosh, Seymour and Company Records, Archives Center, National Museum of American History

Restrictions

Collection is open for research but is stored off-site and special arrangements must be made to work with it. Contact the Archives Center for information at archivescenter@si.edu or 202-633-3270.

Accruals

Frank M. Smith, Jr. of American Industrial Sales Company donated a book in 1977 and Carson McCall donated photographs and one audio cassette in 1988-1989.

Biographical / Historical

John E. McIntosh (1858-1916) and James A. Seymour invented the centrifugal governor (US 346,302) in 1886 made possible the beginning of McIntosh and Seymour Company which was founded in 1886 in Auburn, New York. The centrifugal governor is a specific type that controls the speed of an engine, regulating the amount of fuel and maintaining a constant speed. The company manufactured and sold large steam engines for stationary generators and marine use. By 1910, the company introduced diesel engines for railroads.

Scope and Contents

These records relate to the design, manufacture, and operation of diesel engines by McIntosh, Seymour and Company of Auburn, New York. Included are letter books, instruction manuals; price and data sheets; notebooks; design notes, blueprints and drawings; calculations and specifications, sketches; and photographs.

Arrangement

The collection is arranged into ten series.

Series 1: Background Materials, 1889-1980

Series 2: Letter Books, 1895-1901

Series 3: Sketches, 1900-1941

Series 4: Shop Books, 1897-1924

Series 5: Calculation Books and Sheets, 1903-1915

Series 6: Drawings, 1899-1922

Series 7: Instructions, 1899-1941

Series 8: Technical Data, 1901-1923

Series 9: Photographs, 1915

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Diesel engines
- Engine design
- Manufacturing
- Steam-engines

Types of Materials:

- Blueprints
- Drawings
- Manuals
- Notebooks

Names:

National Museum of American History (U.S.). Division of History of Technology
National Museum of American History (U.S.). Division of Mechanical and Civil Engineering

Places:

Auburn (N.Y.)

Container Listing

Series 1: Background Materials, 1889 - 1980

Box 56, Folder 1	Forms, undated
Box 1, Folder 1	History of the company, 1942 - 1942, 1945 - 1945, 1969
Box 1, Folder 2	Articles, 1892 - 1975
Box 1, Folder 3	Telegraph Code, 1902
Box 1, Folder 4	US Patent 402,622, Steam Engine, 1889
Box 1, Folder 4	US Patent 495,516, Steam Engine, 1893
Box 1, Folder 5	Index to drawings (Catalog 1), undated
Box 1, Folder 6	Engines, 1897
Box 1, Folder 7	Engines, 1898
Box 1, Folder 8	Steam Engines, 1899
Box 2, Folder 1	Catalogue of Steam Engines, 1901
Box 2, Folder 2	Steam Engines`, 1904
Box 2, Folder 3	Steam Engines, 1906
Box 2, Folder 4	Steam Engines, 1906
Box 2, Folder 5	High Speed Engines, 1912
Box 2, Folder 6	Bulletins, 51, 53 and 55, 1914 - 1915
Box 2, Folder 7	Diesel Engines, 1926, 1928 - 1928
Box 2, Folder 8	Diesel Engines, [1933?]
Box 3, Folder 1	Diesel Engines for Stationary Service, 1933
Box 3, Folder 2	Diesel Engines, 1936
Box 3, Folder 3	Achievement in Motorships, 1921

Box 3, Folder 4	Diesel marine Engines, crosshead type, 1922
Box 3, Folder 5	Diesel Engine Lubrication, undated
Box 3, Folder 6	Engines, undated
Box 3, Folder 7	An Achievement in Motorships, Diesel Engines, 1921
Box 3, Folder 8	American Locomotive Company (ALCO), 1945 - 1980
Box 3, Folder 9	Automatic Cut-Off Steam Engines, undated
Box 3, Folder 10	Crane Packing Company, undated
Box 3, Folder 11	Heavy Stationery Type Oil Engines, 1922
Box 3, Folder 12	France Metal Packing , undated
Box 3, Folder 13	Line Charts, 1920
Box 3, Folder 14	Standard Compound Engine, undated
Box 3, Folder 15	Type F, Bulletin 28, undated
Box 3, Folder 16	Price Lists, 1894
Box 3, Folder 17	Price Lists, 1919

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Series 2: Letter Books, 1895 - 1901

Box 71

Letter Book C, 1895 May-1901 February

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Series 3: Sketches, 1900 - 1941

Box 60, Folder 1	Atkins, D.F. , 1900 - 1900
Box 3, Folder 18-19; Box 57, Folder 1	Carlson, C. , 1905 - 1905, 1904 - 1905, 1902 - 1902
Box 57, Folder 2	Cooke, H., 1907 - 1909
Box 60, Folder 2	Cooke, H., 1893 - 1896
Box 60, Folder 2A	Cooke, H. (engineering data)
Box 60, Folder 3	Cooke, H. (cylinder boring rig), 1903 - 1903
Box 57, Folder 3	Ernsberger, M.C. , 1900 - 1900
Box 60, Folder 4	Ernsberger, M.C., 1904 - 1904
Box 60, Folder 4A	Huplbut, J. (notes), 1915 - 1915
Box 64, Folder 1	McAlpine, A. , 1899 - 1899
Box 64, Folder 2	McAlpine, A. (Governors wheels), 1907 - 1907
Box 58, Folder 1	1.1: McAlpine, A. , 1914 - 1914
Box 58, Folder 2	McAlpine, A. , 1920 - 1920
Box 58, Folder 3	McAlpine, A. , 1921 - 1921
Box 58, Folder 4	McAlpine, A. , 1923 - 1923
Box 64, Folder 3	McAlpine, A. , 1926 - 1926
Box 58, Folder 5	#3, McAlpine, A. (notes), 1927 - 1927
Box 58, Folder 6	#5, McAlpine, A. , 1927 - 1927
Box 58, Folder 7	#6, McAlpine, A. , 1928 - 1928
Box 58, Folder 8	#8, McAlpine, A. , 1929 - 1929
Box 58, Folder 9	#9, McAlpine, A. , 1931 - 1931
Box x, Folder 1	#10, McAlpine, A. , 1933 - 1934

Box 58, Folder 10	#14, McAlpine, A. , 1932 - 1933
Box 59, Folder 1	#16, McAlpine, A. , 1933 - 1934
Box 59, Folder 2	#17, McAlpine, A. and J. Piwinski, 1934 - 1934
Box 59, Folder 3	#18, McAlpine, A. , 1935 - 1935
Box 59, Folder 4	#19, McAlpine, A. , 1936 - 1936
Box 59, Folder 5	McAlpine, A. , 1935 - 1936
Box 64, Folder 4	McAlpine, A. , 1941 - 1941
Box 60, Folder 5	Maeda, F. (miscellaneous figuring), 1905 - 1905
Box 60, Folder 6	Maeda, F. , 1906 - 1906
Box 57, Folder 4	Straub, Carlson, 1911 - 1911
Box 57, Folder 5	Taylor, L.B. (spiral), 1902 - 1905
Box 64, Folder 5	Taylor, L.B. (curves), undated
Box 57, Folder 6	Canadian Pacific engine, 1921 - 1922
Box 56, Folder 2	Four valve engine for governor layouts and investigations, 1911 - 1913
Box 64, Folder 6	A-9 governor, 1910 - 1910
Box 64, Folder 7	Valve gears, 1910 - 1910
Box 64, Folder 8	84" rotary dryer, 1912 - 1912
Box 56, Folder 4	Miscellaneous, undated
Box 6, Folder 3	M Sketches, Number 1, undated
Box 6, Folder 5	M Sketches (1700-2048), undated
Box 7, Folder 4	S-Sketches, undated
Box 19, Folder 1	Sketch Book A, undated
Box 7, Folder 3	Sketch Book B, undated
Box 8, Folder 4	Sketch Book D, undated

Box 20, Folder 1	Sketch Book E, undated
Box 71	Sketches, 1900 - 1902
Box 86	S sketches, 1913 - 1927
Box 85	S Sketches, S-400 to S-1009, 1901 - 1905
Box 80	Sketches S-110 to S-1799
Box 87	S sketches, S-1800 to S-2499, 1907 - 1913

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Series 4: Shop Books, 1897 - 1924

Box 4, Folder 1	Index to Records of Engines (Books 1-7), undated
Box 4, Folder 2	Index to Record Engines, undated
Box 4, Folder 3	[Index to Engines?], undated
Box 4, Folder 4	[Index to Engines?], undated
Box 4, Folder 5	Record of Shop Numbers (300-681), Number 3, undated
Box 4, Folder 6	Record of Shop Numbers, Number 4, undated
Box 4, Folder 7	Record of Shop Numbers, Number 5, undated
Box 4, Folder 8	Record of Shop Numbers, Number 6, undated
Box 5, Folder 1	Shipment of Engines/Record of Shop Numbers, undated
Box 5, Folder 2	Engine Shop List and List Numbers, undated
Box 5, Folder 3	[Shop Notebook?], undated
Box 5, Folder 4	Pattern Book, 1897
Box 5, Folder 5	Pattern Book, 1898 July
Box 5, Folder 6	Pattern Book (1-5994), 1911
Box 5, Folder 7	Pattern Book (8925-), undated
Box 5, Folder 8	Pattern Book (10300-10949), undated
Box 5, Folder 9	Pattern Book (11666-)
Box 6, Folder 1	Pattern Book , Number 3 (W. Murray), undated
Box 6, Folder 1	Pattern Book , Number 3 (W. Murray), undated
Box 6, Folder 3	Foundry sheets, Number 1 (for steel castings), undated
Box 6, Folder 4	Engine Record, 1915 - 1916
Box 6, Folder 6	Express, 1907 - 1908
Box 6, Folder 7	Record prints, undated

Box 7, Folder 1	Index 4, Book Number 14 (piston ring spring)
Box 7, Folder 2	Catalogue Number 2, undated
Box 8, Folder 1	Steam Engine numbers, undated
Box 8, Folder 2	Engine Inspection Book, undated
Box 8, Folder 3	Engine Inspection Book, undated
Box 19, Folder 2	Engine Inspection Book, undated
Box 65, Folder 1A	Stud and bolt book, 1907 - 1908
Box 67	Volume 24 Notes: Gridiron Lists, 72-446; Shop Numbers, 112-873; Lot Numbers, -227; and Shipments, 1891 November-1898 February
Box 68	Volume 25 Notes: Gridiron Lists, 451-619; Shop Numbers 880-1084; Lot Numbers, 230-351; and Shipments, 1898 April-1901 April
Box 69	Volume 26, 1900 May Notes: Shop Numbers and lot numbers
Box 70	Volume 27 Notes: Gridiron Lists, 620-699; Shop Numbers 1083-1175; Lot Numbers, 347-445; and Shipments, 1901 Mat-1902 October
Box 88	Volume 28 Notes: Gridiron lists, 801-915; Shop Numbers, 1298-1437; Lot Numbers, 546-651; and Shipments, 1905 March-1909 June
Box 89	Volume 29 Notes: Gridiron Lists, 700-799; Shop Numbers, 1176-1296; Lot Numbers, 446-545; and Shipments, 1902 October-1905 January 14
Box 90	Volume 30 Notes: Gridiron lists, 916-; Shop Numbers, 1483-; Lot Numbers 642-; and Shipments.
Box 91	Volume 31, 1901 - 1913 Notes: Bolt and stud list
Box 76	Wheel Book, 1900 - 1915
Box 75	Governor Settings, 1901 - 1915

Box 74	Piston Valves, 1901-[1915?]
Box 74	Valve Engines (shipped), 1911 - 1915
Box 73	Approximate Weight, 1914
Box 73	Order Record Book, 1915
Box 72	Grease Cup List, 1899 - 1915
Box 72	Steam Engine Record Lists, 1915
Box 79	St'd tables (equipment specifications), 1901 - 1924
Box 81	Piston Valves, 1-254; Shop Numbers 1-619; Lot Numbers 1-70; and Shipments, 1886-1894 October
Box 78	Piston Valves, 255-577; Shop Numbers 616-1034; Lot Numbers, 59-182; and Shipments, 1894 November-1900 February
Box 77	Volume 5, Engine Orders, 1900 - 1903
Box 77	Volume 6, Engine Orders, 1902 - 1906
Box 86	Shaft Book, 1902 - 1911
Box 84	Engines Shipped, 1896 - 1915
Box 83	Gridiron Valve Settings, 1900 - 1912
Box 82	Stud Book , 1907
Box 82	Valve gear information (steam engines) , 1907 - 1908

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Series 5: Calculation Books and Sheets, 1903 - 1915

Scope and Contents: This series consists of calculation books maintained by engineers working on engine designs. The books are bound, paginated, and signed and dated. The books are arranged numerically and in some instances, have a specific title such as valve gears.

Box 65, Folder 1	Calculation Sheets (C1-C59), 1903 - 1903
Box 65, Folder 2	Index to steam engine calculation books, undated
Box 65, Folder 3	Calculation sheets, 1911 - 1912
Box 15, Folder 1	Number 1 , 1905 - 1907 Notes: M.E. Griffin; G.P. Pikulinski; T. Jung; Hashimoto
Box 15, Folder 2	Number 2, 1905 - 1907 Notes: T. Nakagawa; F.R. Finch
Box 15, Folder 3	Number 3, undated Notes: E.V. feiletzen
Box 15, Folder 4	Number 4, 1903 - 1905 Notes: Valve gear
Box 15, Folder 5	Number 5, 1905 - 1907 Notes: Piston spring; G. Pikulinsky; F.R. Finch
Box 15, Folder 6	Number 6, 1905 - 1907 Notes: Valve gear; A.O. Carpenter; E.V. Feiletzen; F. Nakagawa
Box 61, Folder 4	Number 7, 1903 - 1907
Box 16, Folder 1	Number 8, 1905 - 1906 Notes: Steam yacht Calypso
Box 16, Folder 2	Number 9, 1906 Notes: F. Maeda
Box 61, Folder 5	Number 10 (general valve gear), 1906 - 1907
Box 16, Folder 3	Number 11, 1907 Notes: Boat engine
Box 16, Folder 4	Number 12, 1907 - 1908
Box 16, Folder 5	Number 15, 1908 - 1909
Box 16, Folder 6	Number 16, 1909
Box 17, Folder 1	Number 17, 1908

	Notes: T. Nakagawa
Box 17, Folder 2	Number 18, 1907 - 1908
Box 17, Folder 3	Number 19, 1908 - 1909
Box 17, Folder 4	Number 20, 1907 - 1910
Box 17, Folder 5	Numbers 21, 24, 25, 1909 - 1911
Box 17, Folder 6	Number 22, 1909 - 1910 Notes: T. Nakagawa
Box 17, Folder 7	Number 23, 1910 - 1912
Box 18, Folder 1	Number 26, 1908 - 1910
Box 18, Folder 2	Number 27, 1912
Box 18, Folder 3	Number 28, 1910 - 1911
Box 18, Folder 4	Number 29, 1912 - 1913
Box 18, Folder 5	Number 32, 1910 - 1914
Box 18, Folder 6	Number D-3, 1915 Notes: William Cowell; Mr. Bjornson

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Series 6: Drawings (partially processed), 1898 - 1922

Scope and Contents: The engine drawings consist of sketches, calculations, repair parts orders, drafting room specifications, contract orders and construction blueprints. The engines were designed and built for a variety of clients. For example, Engine #241 was designed, built and installed at the Amesbury Electric Light Company in Amesbury, Massachusetts. Many of the construction blueprints are annotated with the engine number and other notes about installation. The drawings are 24" x 36" or smaller and are folded. Indices for the drawings consist of 3" x 5" index cards. The cards contain a drawing number, descriptive title, and in some instances, additional notes. For example, drawing M-1339, crank pin effort, connecting rod=5 cranks long. The series is arranged numerically by engine number and is not complete.

Box 21	Index cards to drawings (A-Cro), undated
Box 22	Index cards to drawings (Sn-Z)
Box 23	Index cards to drawings (P-V) Notes: Cards cover piston rods, platforms, receivers, receiver coils, receiver pipes, relief valves, release gears, Rocker, bearings, rocker cones, rocker shafts, steam shaft covers, throttle valves, valves, valve details, and valve seats.
Box 24-25	Index cards to drawings Notes: Valves
Box 26	Index cards to drawings Notes: Valves, indicator motion assemblies, and lubricator piping.
Box 27	Index cards to drawings Notes: Cards include lubricator piping, machine shop, "M", steam chest covers, steam and exhaust, "S" and "T".
Box 28	Index cards to drawings Notes: Index cards include tail rods, throttles, and valves.
Box 29	Index cards to drawings Notes: Index cards include frames, general drawings, and rocker shafts.
Box 30	Index cards to drawings Notes: Index cards include speed changers, crank shafts, "C" and general drawings.
Box 31	Index cards to drawings Notes: Index cards include general drawings (by number) and "G".
Box 32	Index cards to drawings Notes: Index cards include piston summary and letters A-O.
Box 33	Index cards to drawings

	Notes:	Index cards include oil, packing sleeves, piping, eccentric rods and eccentric straps.
Box 34	Index cards to drawings Notes:	Index cards include eccentric shields, elbows, engine changes, forgings, foundation drawings, and cylinder drilling.
Box 35	Index cards to drawings Notes:	Index cards include cylinder lagging, diagrams, drag link, and eccentric auxiliary,
Box 36	Index cards to drawings Notes:	Index cards include crank shafts, crossheads, and cylinder summary.
Box 37	Index cards to drawings Notes:	Index cards include alphabetical listing of clients (M-Z) and drawings by dimension size. For example, 9" x 9" or 11 1/2" x 12".
Box 38	Index cards to drawings Notes:	Index cards include drawings by dimension, alphabetical listing of clients (B-G) and general drawings.
Box 39	Index cards to drawings Notes:	Index cards include alphabetical nby client (H-P) and pistons.
Box 40	Index cards to drawings Notes:	Index cards include alphabetical client list (S), stockers, foundation drawings, governor wheels, and guides.
Box 41	Index cards to drawings Notes:	Index cards include heads, valves, wrenches, coupling shafts, and crank shafts.
Box 42	Index cards to drawings Notes:	Index cards include crossheads, cylinders, eccentric rods, foundation box, and oil pumps.
Box 43	Index cards to drawings Notes:	Valves, forgings, wheel turing, and launch varick.
Box 44	Index cards to drawings Notes:	Governor wheel and alphabetical listing (Ge-N).
Box 45	Index cards to drawings Notes:	Alphabetical (Lin-She and E-Fe).
Box 46	Index cards to drawings Notes:	Alphabetical listing (Fi-Got).

Box 47	Index cards to drawings Notes: Alphabetical listing (Gr-Li).
Box 48	Index cards to drawings Notes: Alphabetical listing (Co-Cr).
Box 49	Index cards to drawings Notes: Piston rings, Ar-Calypso
Box 50	Index cards to drawings Notes: Governor assembly, built up and rope drive
Box 51	Index cards to drawings Notes: Horizontal frame, rocker arms, and relief valves
Box 52	Index cards to drawings Notes: Rocker bars
Box 53	Index cards to drawings Notes: Platforms and receivers.
Box 54	Index cards to drawings Notes: Receiver pipes, drawing by dimension size
Box 55	Index cards to drawings Notes: Drawings by dimension size, condenser lists, slotter 120", piston rods, pit lathes, and plain wheels.
Box 56, Folder 3	List of type F engines sold, undated
Box 61, Folder 1	List of drawing numbers, undated
Box 61, Folder 2	Lists of drawings (old), 1896 - 1897
Box 61, Folder 3	Engine list (purchased), 1905 - 1915
Box 6, Folder 2	Drawing Index (R700-R1134)
Box 92	Engine #1
Box 92	Engine #26
Box 92	Engine #40
Box 92	Engine #52
Box 92	Engine #54
Box 92	Engine #65

Box 92	Engine #69
Box 92	Engine #81-82
Box 92	Engine #84-85
Box 92	Engine #87-88
Box 92	Engine #96
Box 92	Engine #98
Box 92	Engine #99
Box 92	Engine #107
Box 92	Engine #108
Box 92	Engine #117
Box 92	Engine #118
Box 92	Engine #119
Box 92	Engine #121
Box 92	Engine #126
Box 92	Engine #137
Box 92	Engine #138
Box 92	Engine #145
Box 92	Engine #147
Box 92	Engine #150
Box 92	Engine #156-157 (See #150 for foundation drawings)
Box 92	Engine #160
Box 92	Engine #164
Box 92	Engine #165
Box 92	Engine #167

Box 92	Engine #169
Box 92	Engine #172
Box 92	Engine #175
Box 92	Engine #176
Box 92	Engine #191
Box 92	Engine #197
Box 92	Engine #198
Box 92	Engine #201
Box 92	Engine #203
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Box 92	Engine #241
Box 92	Engine #239-240-243
Box 92	Engine #244
Box 92	Engine #249
Box 93	Engine #250
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Box 93	Engine #259-260
Box 93	Engine #266-267-268
Box 93	Engine #269
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Box 93	Engine #275-276
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Box 93	Engine #285
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Box 93	Engine #301
Box 93	Engine #304

Box 93	Engine #306
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Box 93	Engine #309
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Box 93	Engine #313
Box 93	Engine #315
Box 93	Engine #321, 322
Box 93	Engine #325
Box 93	Engine #326
Box 93	Engine #329
Box 93	Engine #330 (see #227 for foundation plan)
Box 93	Engine #335
Box 93	Engine #338 (See #329 for standard 48" clutch)
Box 93	Engine #339
Box 93	Engine #343
Box 93	Engine #344
Box 93	Engine #345
Box 93	Engine #346
Box 93	Engine #350
Box 93	Engine #351
Box 93	Engine #353
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Box 93	Engine #359

Box 93	Engine #361-362
Box 93	Engine #369
Box 93	Engine #373
Box 93	Engine #375
Box 93	Engine #377
Box 93	Engine #383
Box 93	Engine #384
Box 94	Engine #392
Box 94	Engine #394
Box 94	Engine #395
Box 94	Engine #406
Box 94	Engine #411-412
Box 94	Engine #413-414
Box 94	Engine #417-419
Box 94	Engine #420
Box 94	Engine #426
Box 94	Engine #427
Box 94	Engine #432
Box 94	Engine #433
Box 94	Engine #435
Box 94	Engine #438
Box 94	Engine #440
Box 94	Engine #441
Box 94	Engine #448-449

Box 94	Engine #452
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Box 94	Engine #459
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Box 94	Engine #467
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Box 94	Engine #488
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Box 95	Engine #505

Box 95	Engine #506
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Box 95	Engine #516
Box 95	Lot #516
Box 95	Engine #517
Box 95	Engine #518
Box 95	Engine #519
Box 95	Engine #522
Box 95	Engine #523
Box 95	Lot #524
Box 95	Engine #527 (See #522 for dynamic print)
Box 95	Engine #531 (See #522 for dynamic print)
Box 95	Engine #533-534
Box 95	Engine #538
Box 95	Lot #539
Box 95	Engine #540
Box 95	Engine #541
Box 95	Engine #543
Box 95	Engine #544-547
Box 95	Engine #549
Box 95	Engine #553
Box 95	Engine #555
Box 95	Engine #557

Box 95	Engine #559 (See #553 for drawing prints)
Box 95	Engine #565
Box 95	Engine #568
Box 95	Engine #569-570
Box 95	Engine #572-573
Box 96	Engine #574
Box 96	Engine #575
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Box 96	Engine #600
Box 96	Engine #602-605;607-609
Box 96	Engine #612
Box 96	Engine #614
Box 96	Engine #622

Box 96	Engine #623
Box 96	Engine #624
Box 96	Engine #627 (See #589 for print)
Box 96	Engine #629
Box 96	Engine #632
Box 96	Engine #633
Box 96	Engine #634
Box 97	Engine # 635
Box 97	Engine # 636
Box 97	Engine # 642
Box 97	Engine # 645
Box 97	Engine # 647
Box 97	Engine #648
Box 97	Engine # 652
Box 97	Engine # 662
Box 97	Engine # 663
Box 97	Engine # 666
Box 97	Engine # 669
Box 97	Engine # 671
Box 97	Engine # 673
Box 97	Engine # 675
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Box 97	Engine # 681
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Box 97	Engine # 687
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Box 98	Engine # 694
Box 98	Engine # 696
Box 98	Engine # 702
Box 98	Engine # 703
Box 98	Engine # 704-706
Box 98	Engine # 707
Box 98	Engine # 712
Box 98	Engine # 715
Box 98	Engine # 717
Box 98	Engine # 720
Box 98	Engine # 724
Box 98	Engine # 725
Box 98	Engine # 728
Box 99	Engine # 730
Box 99	Engine # 731
Box 99	Engine # 732
Box 99	Engine # 733
Box 99	Engine # 741
Box 99	Engine # 744
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Box 99	Engine # 747
Box 99	Engine # 751
Box 99	Engine # 755
Box 99	Engine # 756
Box 99	Engine # 757
Box 99	Engine # 758
Box 100	Engine #763 (See #751)
Box 100	Engine #764
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Box 100	Engine #771
Box 100	Engine #772 (See #767)
Box 100	Engine #773
Box 100	Engine #775
Box 100	Engine #776
Box 100	Engine #778
Box 100	Engine #780
Box 100	Engine #781
Box 100	Engine #784
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Box 100	Engine #788

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Box 100	Engine #792
Box 100	Engine #796
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Box 100	Engine #799
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