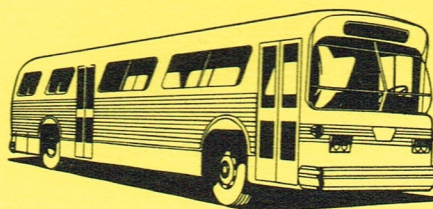


MOTOR and TROLLEY BUS DATA



CHICAGO TRANSIT AUTHORITY

JUNE 1962

R. D. HEINLEIN

MOTOR BUS AND TROLLEY BUS DATA

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CHICAGO TRANSIT AUTHORITY

BUS DATA

MOTOR BUSES

<u>Bus Series</u>	<u>No. of Buses</u>	<u>Year</u>	<u>Description</u>	<u>Seats</u>	<u>Engine</u>	<u>Fuel</u>	<u>Transmission</u>
100-249	150	1961	GM-TDH-5301	50	GM-6V-71	Diesel	Hydr.
500-600	100	1948	GM-TDH-5502	55	GM-671	Diesel	Hydr.
601-700	100	1950-51	GM-TDH-5103	51	GM-671	Diesel	Hydr.
1145-1169	23	1940	GM-TDH-4502	45	GM-671	Diesel	Hydr.
1170-1204	26	1942	GM-TDH-4505	45	GM-671	Diesel	Hydr.
1205-1399	195	1945-46	GM-TDH-4506	45	GM-671	Diesel	Hydr.
1400-1464	64	1947-48	GM-TDH-4507	45	GM-671	Diesel	Hydr.
1600-1619	15	1946	TC-385	37	FTC-180	Gas	Hydr.
1620-1624	4	1946	TC-345	34	FTC-180	Gas	Hydr.
1700-1799	100	1948	TC-445	44	FTC-180-1	Gas	Hydr.
1800-1819	16	1947	TC-445	44	FTC-180	Gas	Hydr.
2700	1	1951	ACF-C-48	48	HS-180-4	Propane	Hydr.
2701-2750	50	1951	ACF-C-44	44	HS-180-4	Propane	Hydr.
5000-5499	499	1950-51	TC-525	51	FTC-200-3	Propane	Hydr.
5500-5999	500	1953-4-5	F-2-P40	50	FTC-200-45	Propane	Hydr.
6501-6520	19	1946	GM-TDH-4506	45	GM-671	Diesel	Hydr.
6521-6630	97	1947-8	GM-TDH-4507	45	GM-671	Diesel	Hydr.
6800-6838	38	1946	GM-TDH-3609	36	GM-477	Gas	Hydr.
7200-7299	100	1956-7	MACK-C-48-P	49	EN-510-A	Propane	Hydr.
8000-8148	149	1956-7	F-2-P40	50	FTC-200-63	Propane	Hydr.
8149	1	1957	F-2-D40	50	LEYLAND	Diesel	Hydr.
8200-8349	150	1958-9	F-2-P40	50	FTC-200-65	Propane	Hydr.
8400-8498	99	1959	F-2-P35	44	FTC-200-67	Propane	Hydr.
8499	1	1960	F-DD-40	48	GM-DD-V6	Diesel	Hydr.
8500-8649	150	1961	F2D6V401-1	50	DD-6V-71	Diesel	Hydr.
Total	2667						

TROLLEY BUSES

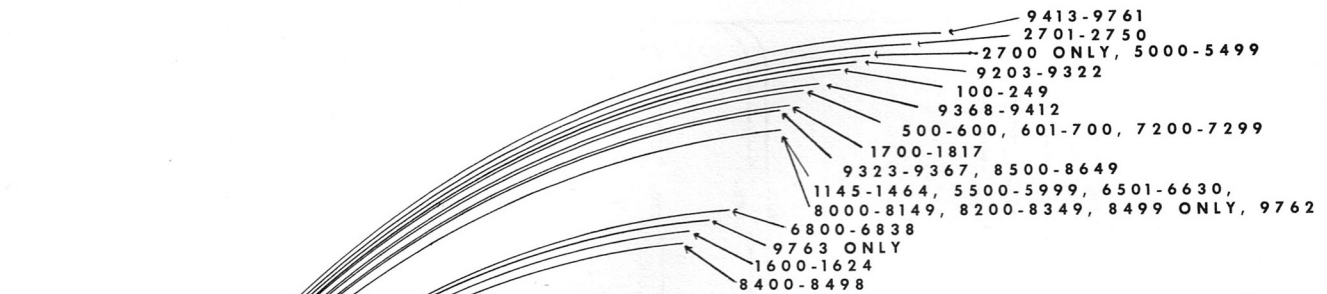
<u>Bus Series</u>	<u>No. of Buses</u>	<u>Builder</u>	<u>Motor No.</u>	<u>Seats</u>	<u>Year</u>
9203-9322	118	ACF-BRILL	WH-1442	44	1948
*9323-9367	40	Pullman	GE-1213J3	44	1948
9368-9412	45	St. Louis	GE-1213J3	45	1948
9413-9761	349	Marmon-Herrington	GE-1213J3	49	1951-52
9762	1	ACF-BRILL	GE-1213J1	48	1950
9763	1	Twin Coach	WH-1442	58	1948
*9358-59-60					
WH-1442N Motors					
Total	554				

6-29-62

General Superintendent of Engineering
Office of Equipment Engineer

TURNING RADII, WHEELBASES and WEIGHTS

VARIOUS TYPES OF BUSES



THESE ARE REPRESENTATIVE CURVES

BUS SERIES	TURNING RADIUS	WHEEL BASE	FRONT WEIGHT	REAR WEIGHT	TOTAL WEIGHT
100-249	42'-10"	284 3/4"	5900	14,500	20,400
500-600	42'-0"	273 1/2"	5400	13,700	19,100
601-700	42'-0"	281 3/4"	5640	13,920	19,560
1145-1169	40'-0"	239 1/2"	4910	13,070	17,960
1170-1204	40'-0"	239 1/2"	5230	13,520	18,730
1205-1399	40'-0"	239 1/2"	5100	12,480	17,540
1400-1464	40'-0"	239 1/2"	5060	12,700	17,740
1600-1619	35'-5"	189"	6100	7100	13,200
1620-1624	35'-5"	189"	6100	6800	12,900
1700-1817	41'-3"	218"	6400	8700	15,100
2700 ONLY	43'-6"	247"	8800	12,530	21,270
2701-2750	43'-10"	249"	7660	11,640	19,300
5000-5499	43'-6"	279"	7690	10,810	18,500
5500-5719	40'-0"	274 3/4"	9055	12,645	21,700
5720-5729	40'-0"	274 3/4"	8760	12,100	20,860
5730-5999	40'-0"	274 3/4"	8500	12,040	20,540
6501-6530	40'-0"	239 1/2"	4700	12,500	17,200
6531-6630	40'-0"	239 1/2"	4820	12,720	17,540
6800-6838	36'-3"	210 1/2"	5000	9900	14,900
7200-7299	42'-0"	289 1/2"	8800	14,175	22,975
8000-8148	40'-0"	274 3/4"	8660	12,650	21,310
8149 ONLY	40'-0"	274 3/4"	9542	12,858	22,400
8200-8349	40'-0"	274 3/4"	8800	12,950	21,750
8400-8498	34'-10"	232 3/8"	8610	12,170	20,780
8499 ONLY	40'-0"	274 3/4"	7245	14,910	22,155
8500-8649	40'-11"	285"	6965	14,335	21,300

TROLLEY BUS SERIES

9203-9322	43'-3"	249"	6730	12,380	19,110
9323-9367	41'-0"	240"	6460	13,460	19,920
9368-9412	42'-3"	240"	7460	15,140	22,600
9413-9761	44'-3"	270"	7140	13,200	20,340
9762 ONLY	40'-0"	247"	6210	12,440	18,650
9763 ONLY	35'-10"	384"	5800	5600	22,800
			CENTER	11,000	

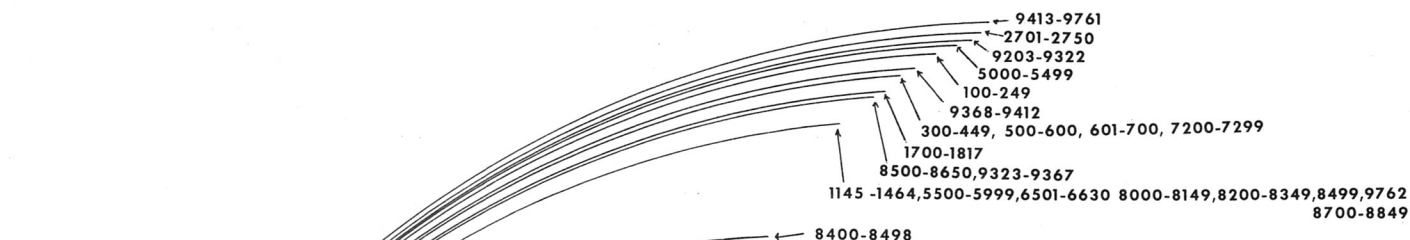
* ARTICULATED

CHICAGO TRANSIT AUTHORITY

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

G-52862

TURNING RADII, WHEELBASES & WEIGHTS VARIOUS TYPES OF BUSES



THESE ARE REPRESENTATIVE CURVES

BUS SERIES	TURNING RADIUS	WHEELBASE	FRONT	WEIGHT REAR	TOTAL
*100-249	42'-10"	284 $\frac{3}{4}$ "	5900	14,500	20,400
*300-449	42'-0"	284 $\frac{3}{4}$ "	6060	14,640	20,700
500-600	42'-0"	273 $\frac{1}{2}$ "	5400	13,700	19,100
601-700	42'-0"	281 $\frac{3}{4}$ "	5640	13,920	19,100
1145-1169	40'-0"	239 $\frac{1}{2}$ "	4910	13,070	17,960
1170-1204	40'-0"	239 $\frac{1}{2}$ "	5230	13,520	18,730
1205-1399	40'-0"	239 $\frac{1}{2}$ "	5100	12,480	17,540
1400-1464	40'-0"	239 $\frac{1}{2}$ "	5060	12,700	17,740
1700-1817	41'-3"	218"	6400	8,700	15,100
2701-2750	43'-10"	249"	7660	11,640	19,300
5000-5499	43'-6"	279"	7690	10,810	18,500
5500-5719	40'-0"	274 $\frac{3}{4}$ "	9055	12,645	21,700
5720-5729	40'-0"	274 $\frac{3}{4}$ "	8760	12,100	20,860
5730-5999	40'-0"	274 $\frac{3}{4}$ "	8500	12,040	20,540
6501-6530	40'-0"	239 $\frac{1}{2}$ "	4700	12,500	17,200
6531-6630	40'-0"	239 $\frac{1}{2}$ "	4820	12,720	17,540
*7200-7299	42'-0"	289 $\frac{1}{2}$ "	8800	14,175	22,975
**8000-8148	40'-0"	274 $\frac{3}{4}$ "	8660	12,650	21,310
8149 LEYLAND DIESEL	40'-0"	274 $\frac{3}{4}$ "	9542	12,858	22,400
*8200-8349	40'-0"	274 $\frac{3}{4}$ "	8800	12,950	21,750
*8400-8498	34'-10"	232 3/8"	8610	12,170	20,780
*8499 ROILINE ENGINE	40'-0"	274 $\frac{3}{4}$ "	7890	15,170	23,060
*8500-8650	40'-11"	285"	6965	14,335	21,300
*8700-8849	39'-9"	277 $\frac{3}{4}$ "	7310	13,820	21,130

* POWER STEERING

**8074 POWER STEERING

TROLLEY BUS SERIES

9203-9322	43'-3"	249"	6730	12,380	19,110
9323-9367	41'-0"	240"	6460	13,460	19,920
9368-9412	42'-3"	240"	7460	15,140	22,600
9413-9761	44'-3"	270"	7140	13,200	20,340
9762	40'-0"	247"	6210	12,440	18,650

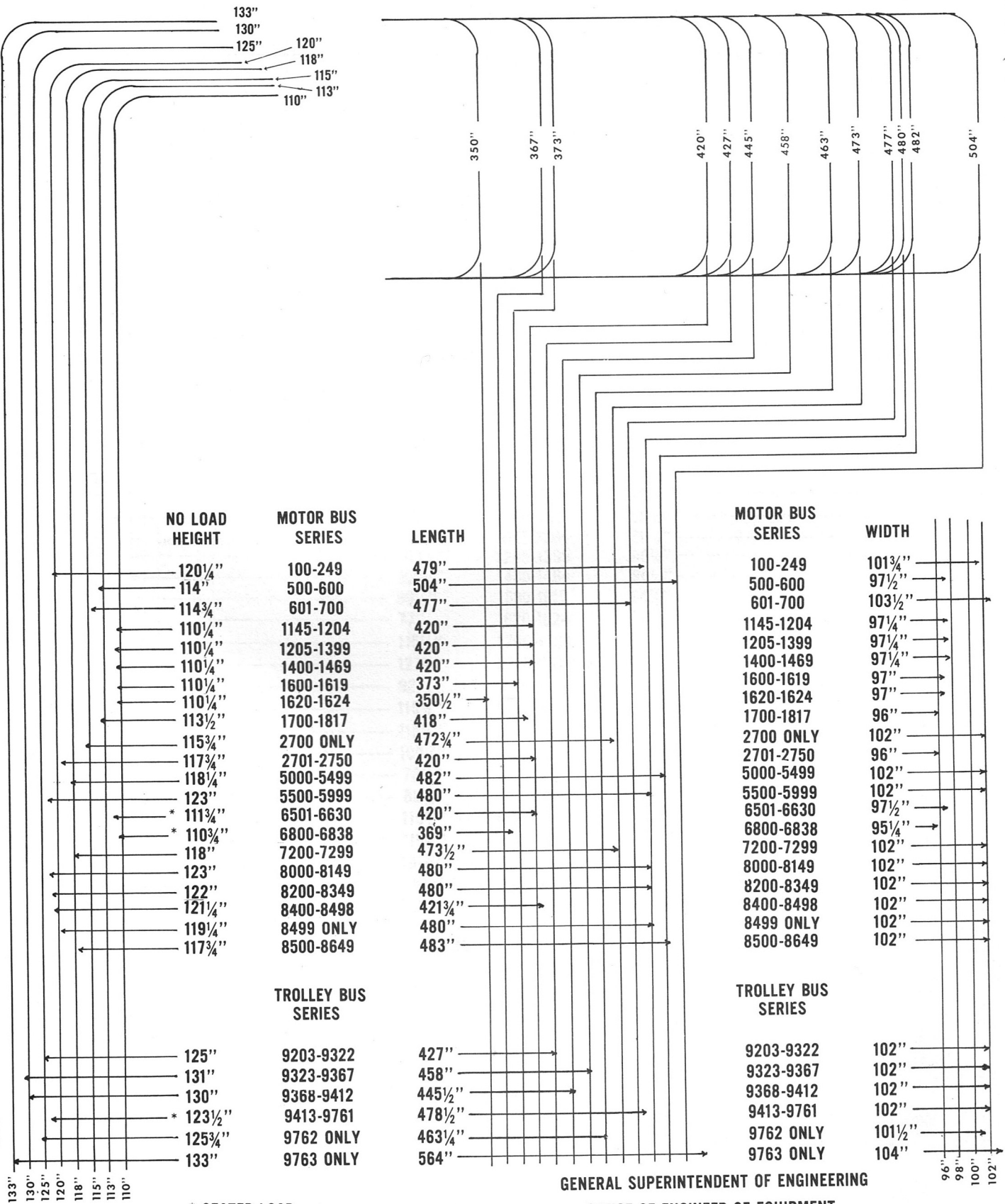
CHICAGO TRANSIT AUTHORITY

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

CHICAGO TRANSIT AUTHORITY

MAXIMUM HEIGHTS , LENGTHS & WIDTHS

VARIOUS TYPES OF BUSES

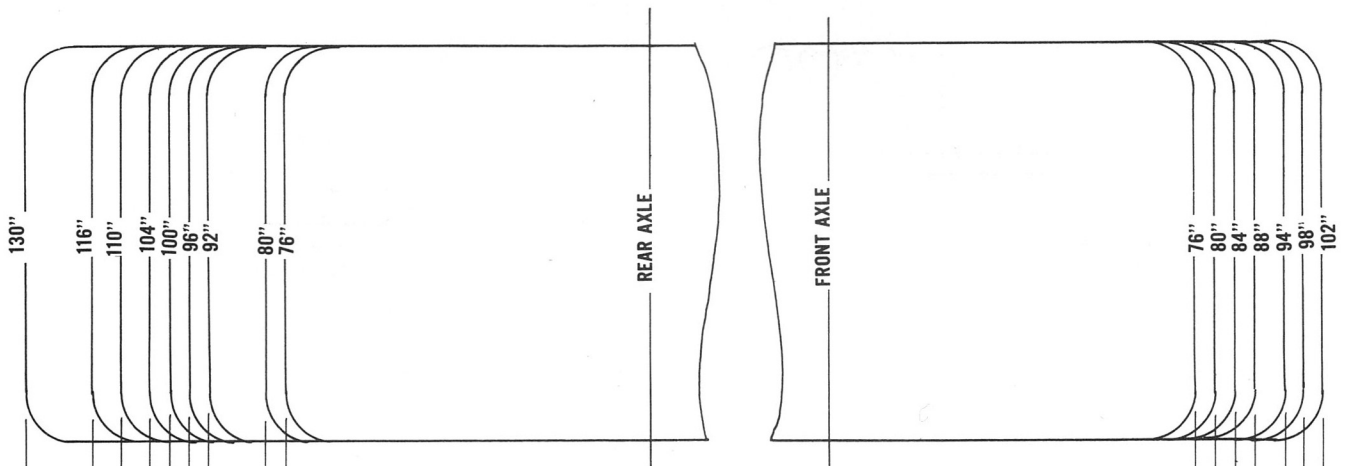


* SEATED LOAD

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

CHICAGO TRANSIT AUTHORITY FRONT & REAR OVERHANG

Various Types of Buses



REAR OVERHANG BUS SERIES FRONT OVERHANG

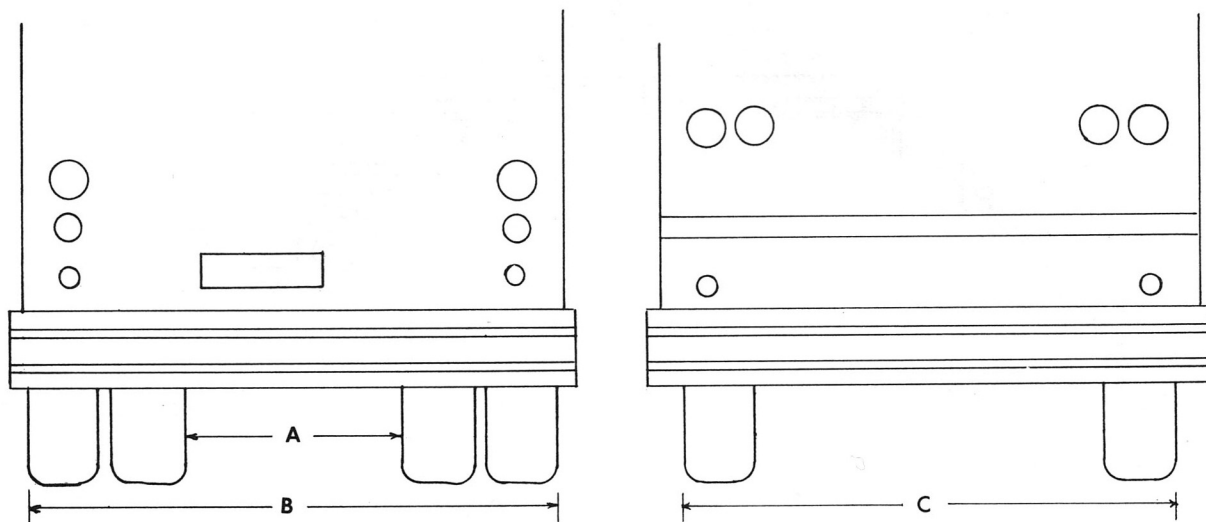
112"	100-249	82 $\frac{1}{4}$ "
129 $\frac{1}{4}$ "	500-600	101 $\frac{1}{4}$ "
110"	601-700	85 $\frac{1}{4}$ "
100 $\frac{1}{4}$ "	1145-1204	80 $\frac{1}{4}$ "
100 $\frac{1}{4}$ "	1205-1399	80 $\frac{1}{4}$ "
100 $\frac{1}{4}$ "	1400-1464	80 $\frac{1}{4}$ "
99 $\frac{1}{2}$ "	1600-1619	84 $\frac{1}{2}$ "
77"	1620-1624	84 $\frac{1}{2}$ "
115 $\frac{1}{2}$ "	1700-1799	84 $\frac{1}{2}$ "
127 $\frac{3}{4}$ "	2700 ONLY	98"
92"	2701-2750	79"
115 $\frac{3}{4}$ "	5000-5499	87 $\frac{1}{4}$ "
115 $\frac{3}{4}$ "	5500-5999	82 $\frac{1}{2}$ "
100 $\frac{1}{4}$ "	6501-6630	80 $\frac{1}{4}$ "
78 $\frac{1}{2}$ "	6800-6838	80 $\frac{1}{4}$ "
80 $\frac{3}{4}$ "	7200-7299	97 $\frac{3}{4}$ "
115 $\frac{3}{4}$ "	8000-8149	82 $\frac{1}{2}$ "
115 $\frac{3}{4}$ "	8200-8349	82 $\frac{1}{2}$ "
101 $\frac{3}{4}$ "	8400-8498	87 $\frac{3}{4}$ "
115 $\frac{3}{4}$ "	8499 ONLY	82 $\frac{1}{2}$ "
110 $\frac{1}{2}$ "	8500-8649	87 $\frac{3}{4}$ "
TROLLEY BUS SERIES		
99"	9203-9322	79"
116"	9323-9367	102"
112 $\frac{1}{2}$ "	9368-9412	93"
113 $\frac{1}{2}$ "	9413-9761	95"
114 $\frac{1}{2}$ "	9762 ONLY	102"
95 $\frac{1}{2}$ "	9763 ONLY	84 $\frac{1}{2}$ "

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

62862

CHICAGO TRANSIT AUTHORITY

TIRE TO TIRE MEASUREMENTS AND TIRE SIZES



DIMENSION A	DIMENSION B	DIMENSION C	MOTOR BUS SERIES	TIRE SIZES	
				FRONT	REAR
51-7/8"	101"	96 3/4"	100-249	11:00 x 20	11:00 x 20
46"	95 1/4"	92 3/4"	500-600	11:00 x 20	11:00 x 20
51-7/8"	100 3/4"	98-5/8"	601-700	11:00 x 20	11:00 x 20
49 1/4"	95-7/8"	91-7/8"	1145-1464	10:00 x 20	10:00 x 20
51"	97"	92"	1600-1624	10:00 x 20	10:00 x 20
50-9/16"	95 3/4"	93"	1700-1817	11:00 x 20	10:00 x 20
47 3/4"	101 1/2"	100"	2700 ONLY	12:00 x 20	12:00 x 20
46 3/4"	96"	92 1/4"	2701-2750	11:00 x 22	11:00 x 22
49 1/2"	98 3/4"	100-1/8"	5000-5499	11:00 x 20	11:00 x 20
49 1/2"	98 3/4"	99 3/4"	5500-5999	11:00 x 20	11:00 x 20
49 1/2"	96 1/4"	92"	6501-6600	11:00 x 20	11:00 x 20
49 1/2"	96 1/4"	92"	6601-6630	10:00 x 20	10:00 x 20
49 1/4"	95 1/4"	92"	6800-6838	10:00 x 20	10:00 x 20
51"	102 1/2"	96 1/2"	7200-7299	11:00 x 22	11:00 x 22
49 1/2"	98 3/4"	99 3/4"	8000-8148	11:00 x 20	11:00 x 20
49 1/2"	98 3/4"	99 3/4"	8149 ONLY	11:00 x 20	11:00 x 20
49 1/2"	98 3/4"	99 3/4"	8200-8349	11:00 x 20	11:00 x 20
49 1/2"	98 3/4"	99 3/4"	8400-8498	11:00 x 20	11:00 x 20
49 1/2"	98 3/4"	99 3/4"	8499 ONLY	11:00 x 20	11:00 x 20
51-3/8"	99 1/4"	97 1/2"	8500-8649	11:00 x 20	11:00 x 20

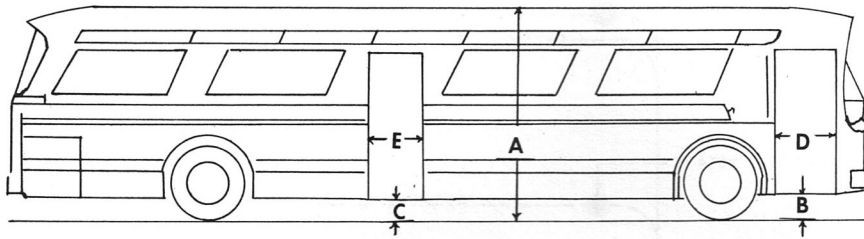
TROLLEY BUS SERIES

47 3/4"	96 3/4"	92 1/2"	9203-9322	11:00 x 20	11:00 x 20
47 3/4"	96"	98 1/2"	9323-9367	11:00 x 22	11:00 x 22
48"	97-5/8"	99 1/4"	9368-9412	11:00 x 22	11:00 x 22
52 3/4"	101 1/4"	98 1/2"	9413-9761	11:00 x 22	11:00 x 22
51 3/4"	102 1/4"	98 1/4"	9762 ONLY	11:00 x 22	11:00 x 22
53"	99 3/4"	100 1/4"	9763 ONLY	10:00 x 20	10:00 x 20

NOTE: Dimension tolerances plus or minus 1/2"

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

CHICAGO TRANSIT AUTHORITY
AISLE WIDTH, DOOR OPENING, ROOF & STEP HEIGHTS



MOTOR BUS SERIES	ROOF CROWN	REAR STEP	FRONT STEP	DOOR OPENING		AISLE WIDTH
	HEIGHT	HEIGHT	HEIGHT	FRONT	REAR	
	A	B	C	D	E	
100-249	120 $\frac{1}{4}$ "	15"	16"	25 $\frac{3}{4}$ "	*21 $\frac{1}{4}$ "	22"
500-600	114"	15 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	45"	29"	20"
601-700	114 $\frac{3}{4}$ "	15"	15 $\frac{1}{4}$ "	30"	°30"	20"
1145-1204	110-5/16"	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1205-1399	110-5/16"	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1400-1464	110-5/16"	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1600-1624	110-1/8"	15 $\frac{1}{4}$ "	15 $\frac{1}{4}$ "	34"	27"	22"
1700-1817	111-1/8"	16 $\frac{1}{4}$ "	16 $\frac{1}{4}$ "	34"	27"	22"
2700 ONLY	115 $\frac{3}{4}$ "	15 $\frac{1}{4}$ "	15 $\frac{3}{4}$ "	47"	°43"	23 $\frac{1}{2}$ "
2701-2750	117 $\frac{3}{4}$ "	16"	17 $\frac{3}{4}$ "	27-5/8"	28"	21"
5000-5499	113 $\frac{1}{4}$ "	16"	16"	32"	°42"	28 $\frac{3}{4}$ "
5500-5999	117"	17"	17"	32"	**22"	28"
6501-6630	109-5/16"	14-1/8"	15-3/16"	28"	24"	20"
6800-6838	109-1/8"	13-13/16"	14-13/16"	28"	24"	20"
7200-7299	118"	15 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	30 $\frac{1}{2}$ "	**22"	27-7/8"
8000-8149	117 $\frac{1}{4}$ "	17"	17"	30 $\frac{1}{2}$ "	**22"	28"
8200-8349	116 $\frac{1}{4}$ "	16"	16"	30 $\frac{1}{2}$ "	**22"	28"
8400-8498	115 $\frac{1}{2}$ "	15"	15"	30 $\frac{1}{2}$ "	*24"	26"
8499 ONLY	113 $\frac{1}{2}$ "	13"	15"	30 $\frac{1}{2}$ "	**22"	26"
8500-8649	117-5/8"	14 $\frac{1}{4}$ "	15-1/8"	26 $\frac{1}{4}$ "	*22 $\frac{1}{2}$ "	22-7/16"

TROLLEY BUS SERIES	HEIGHT		STEP HEIGHTS		DOOR OPENING		AISLE WIDTH
	ROOF CROWN	OVER TROLLEY	FRONT	REAR	FRONT	REAR	
	A		B	C	D	E	
9203-9322	115"	125"	15 $\frac{1}{4}$ "	15-3/8"	32"	30"	26"
9323-9367	117-1/8"	131"	15"	15"	45"	*26"	29"
9368-9412	114-3/8"	130"	15-7/8"	16 $\frac{1}{4}$ "	45"	*26"	27 $\frac{1}{2}$ "
9413-9761	113"	123 $\frac{1}{2}$ "	15"	15"	45"	°45"	30"
9762 ONLY	115-1/8"	129-1/8"	15 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	45"	27"	27"
9763 ONLY	111-1/8"	121-1/8"	13"	15"	32"	°46"	30 $\frac{1}{4}$ "

*SINGLE EXIT PUSH DOOR

**DOUBLE EXIT PUSH DOOR

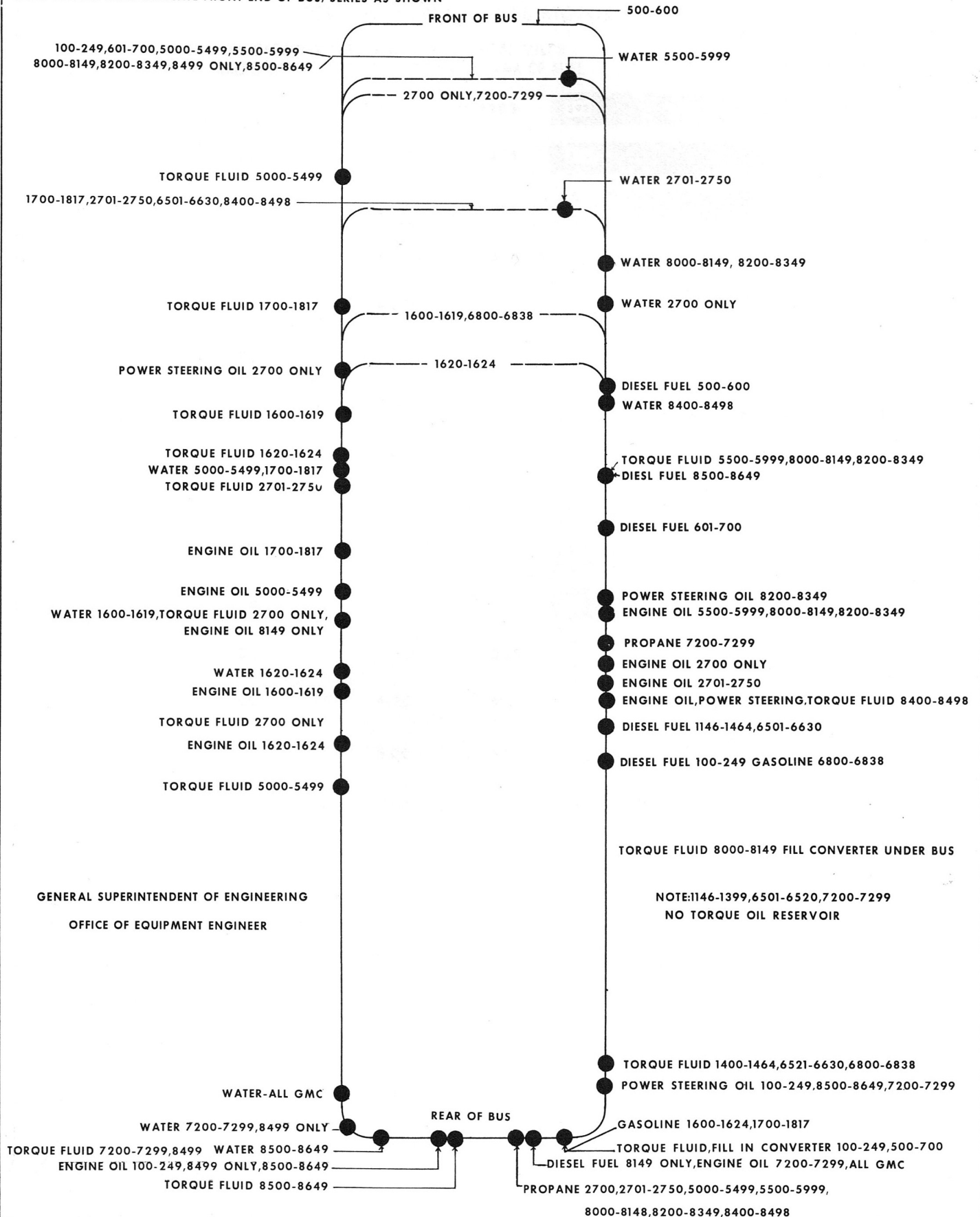
°DOUBLE EXIT TREADLE DOOR

°83 BUSES HAVE SINGLE EXIT PUSH DOORS

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

CHICAGO TRANSIT AUTHORITY
LOCATION of FUEL, ENGINE OIL, POWER STEERING & TORQUE OIL and WATER INLETS
ON the VARIOUS TYPES of MOTOR BUSES

NOTE: DOTTED LINES INDICATE FRONT END OF BUS, SERIES AS SHOWN



CHICAGO TRANSIT AUTHORITY

RECOMMENDED "ON THE STREET" SCHEDULE MILES

FOR THE VARIOUS TYPE MOTOR BUSES

BUS SERIES	FUEL TANK CAPACITY "GALLONS"	*AVERAGE MILES PER GALLON	**TOTAL MILES PER TANK OF FUEL	RECOMMENDED SCHEDULE MILES
100-249	95	°° 4.34	**** 383	392
500-600	85	4.02	334	334
601-700	85	3.83	314	314
1145-1204	85	4.43	386	386
1205-1464	85	4.23	357	357
1600-1624	80	3.56	250	250
1700-1817	125	3.26	356	356
2700 ONLY	92	1.64	138	138
2701-2750	92	2.09	184	184
5000-5499	100	2.33	213	213
5500-5999	100	2.25	211	211
6501-6530	85	4.28	355	355
6531-6630	100	4.28	418	418
6800-6838	85	3.00	378	378
7200-7299	125	2.06	247	247
8000-8148	125	*** 2.01	227	227
8149 ONLY	85	*** 4.33	364	364
8200-8349	125	*** 2.35	293	293
8400-8498	125	° 2.36	295	295
8499 ONLY	125	4.30	530	530
8500-8649	95	°°° 3.95	**** 365	375

*BASED ON AVERAGE FOR YEARS 1957,1958,1959

**BASED ON AVERAGE FOR WINTER MONTHS, NOV. & DEC., 1958 & JAN. & FEB., 1959

***BASED ON AVERAGE FOR YEARS 1959, 1960, 1961

****BASED ON WINTER MONTHS NOV, DEC, 1961 & JAN, FEB, 1962

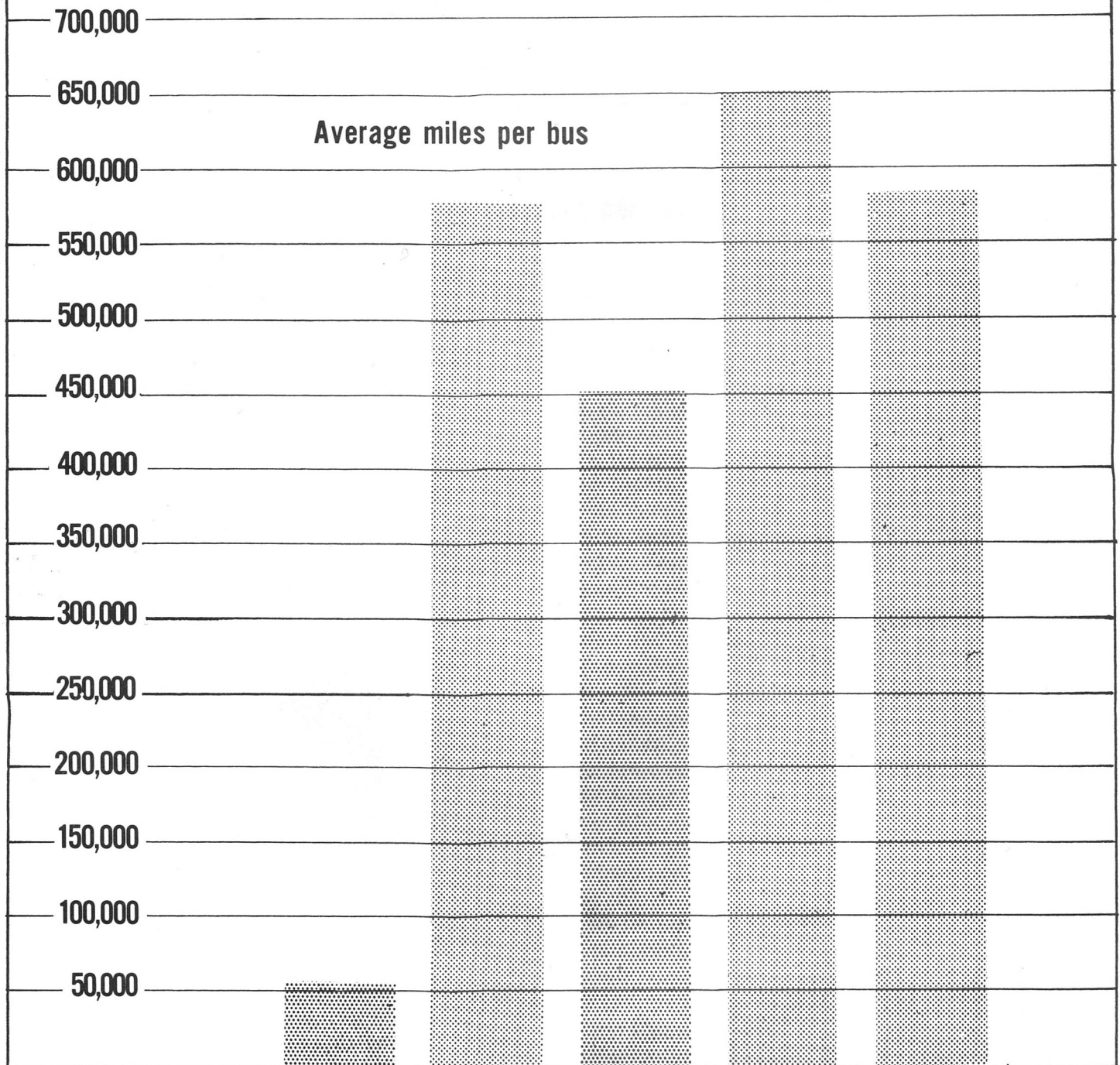
°BASED ON AVERAGE FOR YEARS 1960, 1961

°°BASED ON AVERAGE FOR 7 MONTHS 1961 & 6 MONTHS 1962

°°°BASED ON AVERAGE FOR 7 MONTHS 1961 & 6 MONTHS 1962

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

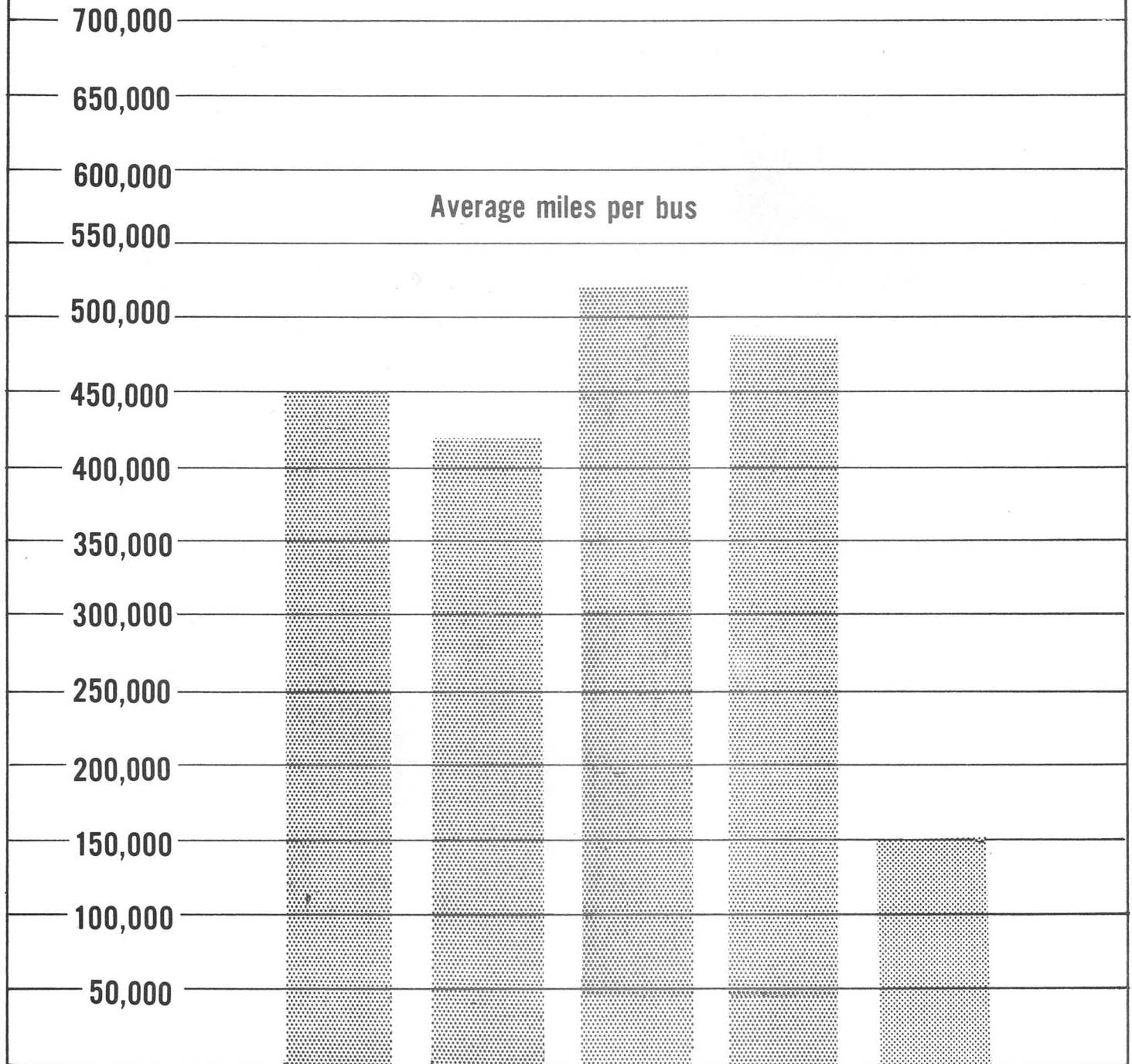
**AVERAGE MILES OPERATED PER BUS
BY BUS SERIES
AND
ACCUMULATED MILEAGE IN THOUSANDS**



**GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT**

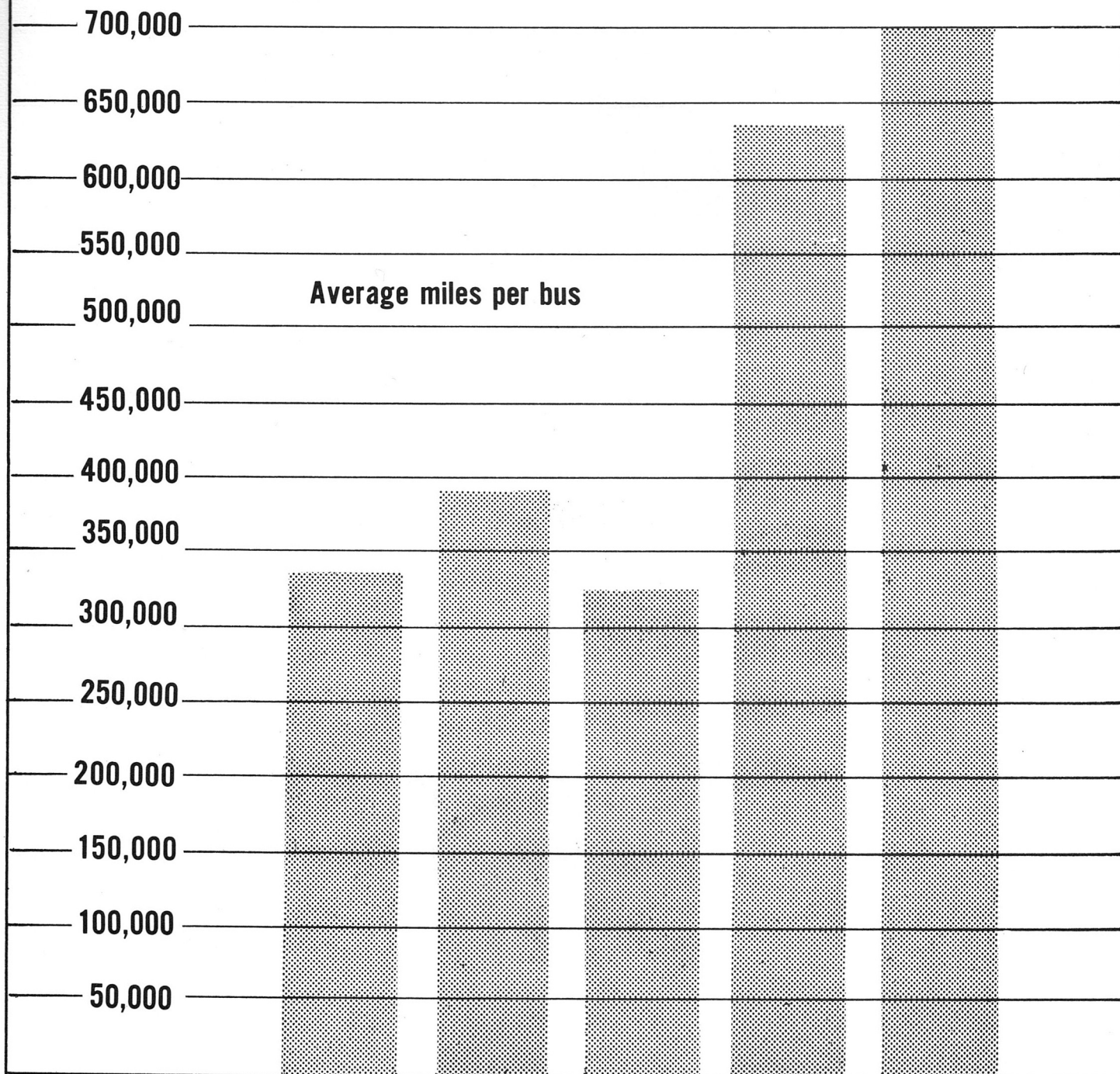
AVERAGE MILES OPERATED PER BUS BY BUS SERIES AND ACCUMULATED MILEAGE IN THOUSANDS

Average miles per bus



GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

AVERAGE MILES OPERATED PER BUS BY BUS SERIES AND ACCUMULATED MILEAGE IN THOUSANDS

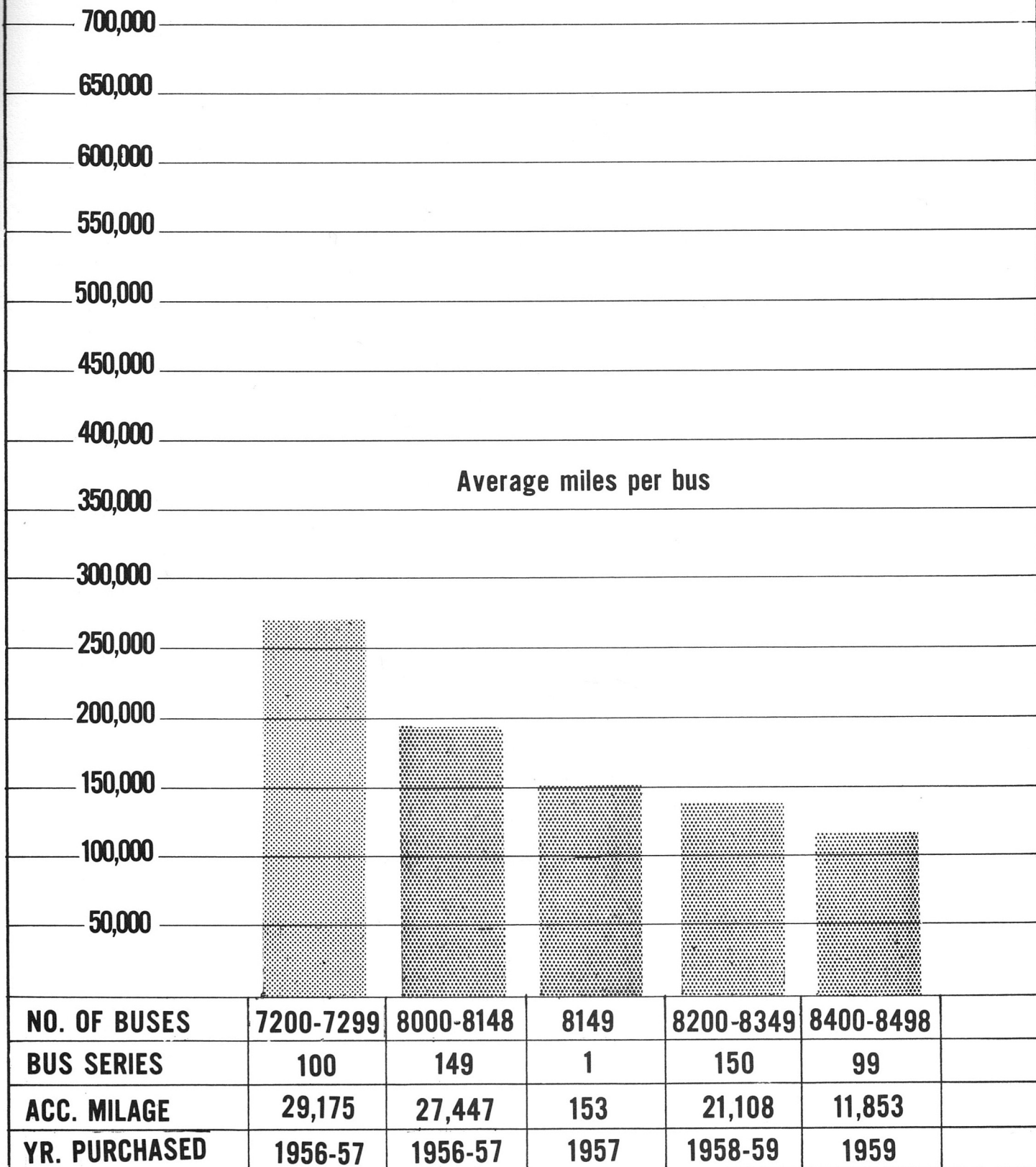


BUS SERIES	2701-2750	5000-5499	5500-5999	6501-6630	6800-6838	
NO. OF BUSES	50	499	500	124	30	
ACC. MILEAGE	16,850	192,686	162,879	79,513	21,006	
YR. PURCHASED	1951	1950-51	1953	1946-47	1946	

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

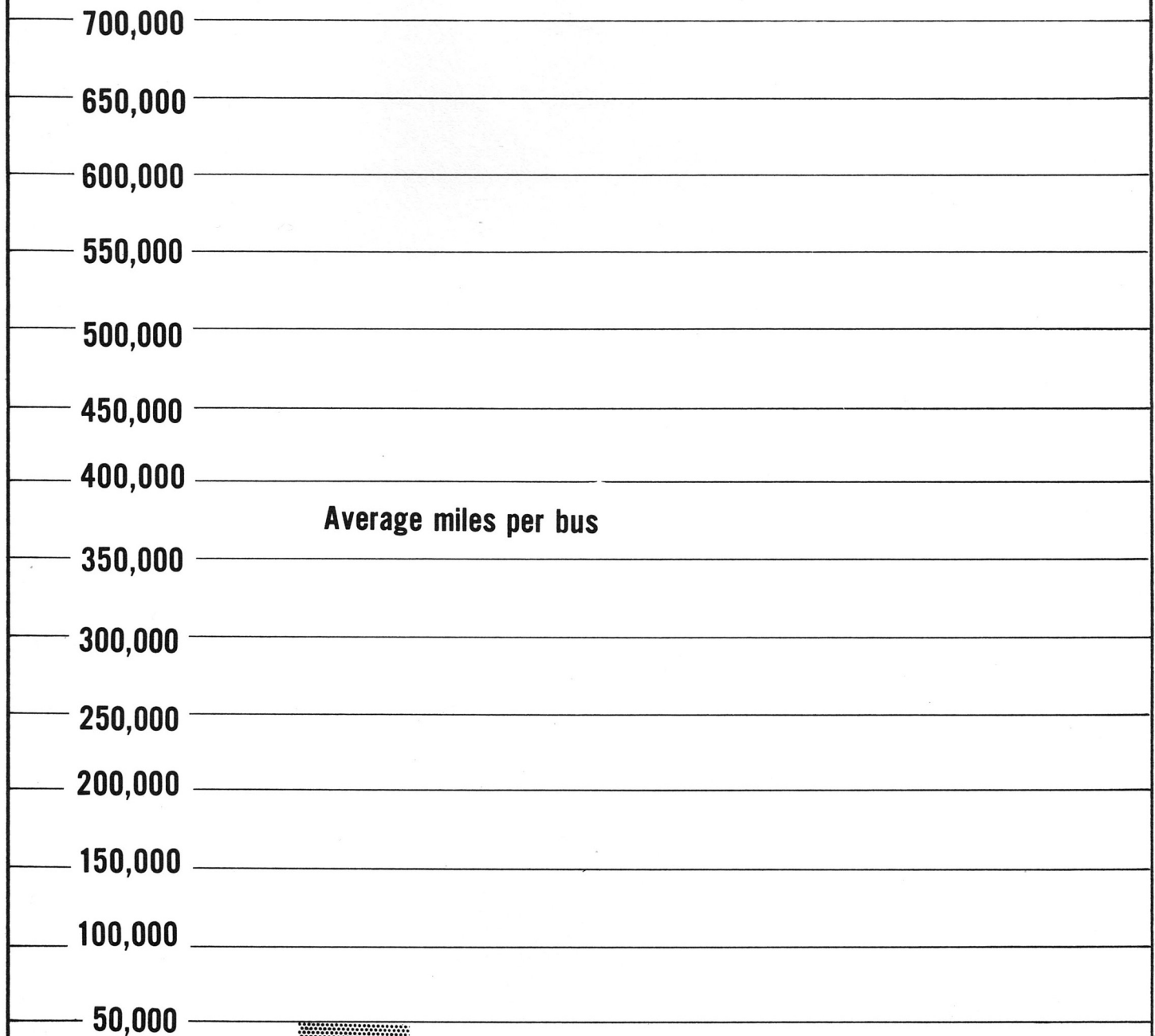
AVERAGE MILES OPERATED PER BUS BY BUS SERIES

AND
ACCUMULATED MILEAGE IN THOUSANDS



GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

**AVERAGE MILES OPERATED PER BUS
BY BUS SERIES
AND
ACCUMULATED MILEAGE IN THOUSANDS**



BUS SERIES	8499	8500-8649				
NO. OF BUSES	1	150				
ACC. MILEAGE	51	5,650				
YR. PURCHASED	1960	1961				

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

