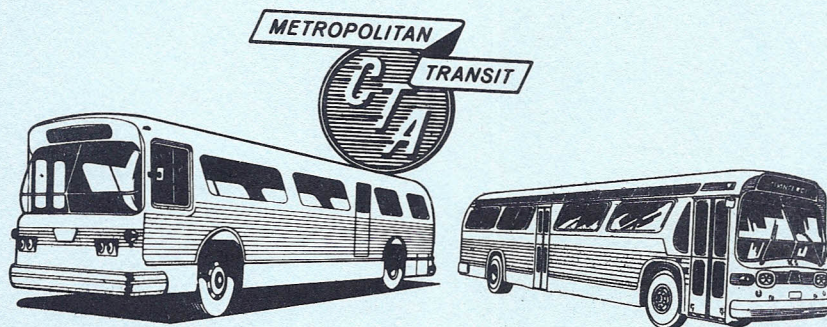


MOTOR and TROLLEY BUS DATA



CHICAGO TRANSIT AUTHORITY

JULY 1963

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>Trans- mission</u>
100-249	150	1961	GM-TDH-5301	50	GM-6V-71	Diesel	Hydr.
300-449	150	1963	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	22	1940	GM-TDH-4502	45	GM-671	Diesel	Hydr.
1170-1204	25	1942	GM-TDH-4505	45	GM-671	Diesel	Hydr.
1205-1399	167	1945-46	GM-TDH-4506	45	GM-671	Diesel	Hydr.
1400-1464	62	1947-48	GM-TDH-4507	45	GM-671	Diesel	Hydr.
1700-1799	44	1948	TC-44S	44	FTC-180-1	Gas	Hydr.
1800-1819	9	1947	TC-44S	44	FTC-180	Gas	Hydr.
2701-2750	40	1951	ACF-C-44	44	HS-180-4	Propane	Hydr.
5000-5499	499	1950-51	TC-52S	51	FTC-200-3	Propane	Hydr.
5500-5999	500	1953-4-5	F-2-P40	50	FTC-200-45	Propane	Hydr.
6501-6520	16	1947	GM-TDH-4506	45	GM-671	Diesel	Hydr.
6521-6630	90	1947-48	GM-TDH-4507	45	GM-671	Diesel	Hydr.
7200-7299	100	1956-57	Mack-C-48-P	49	EN-510A	Propane	Hydr.
8000-8148	149	1956-57	F-2-P40	50	FTC-200-63	Propane	Hydr.
8149	1	1957	F-2-D40	50	Leyland	Diesel	Hydr.
8200-8349	150	1958-59	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	RoiLine V8	Propane	Hydr.
8500-8650	151	1961-62	F2D6V-401-1	50	DD6V-71	Diesel	Hydr.
8700-8849	150	1963	F2P-401-1	50	FTC-200-69	Propane	Hydr.
Total	2,775						

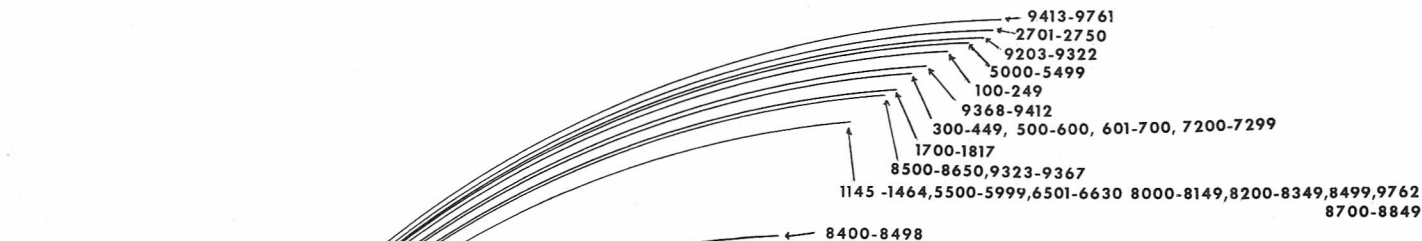
TROLLEY BUSES

<u>Bus Series</u>	<u>No. of Buses</u>	<u>Year</u>	<u>Description</u>	<u>Seats</u>	<u>Motor No.</u>
9203-9322	104	1948	ACF-Brill	44	WH-1442
*9323-9367	40	1948	Pullman	44	GE-1213J3
9368-9412	44	1948	St. Louis	45	GE-1213J3
9413-9761	338	1951-52	Marmon-Herrington	49	GE-1213J3
9762	1	1950	ACF-Brill	48	GE-1213J3
Total	537				

*9358-59-60
WH-1442N Motors

8-28-63
GBU/mn

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	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	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

*** ROILINE ENGINE

**8074 POWER STEERING

TROLLEY BUS SERIES

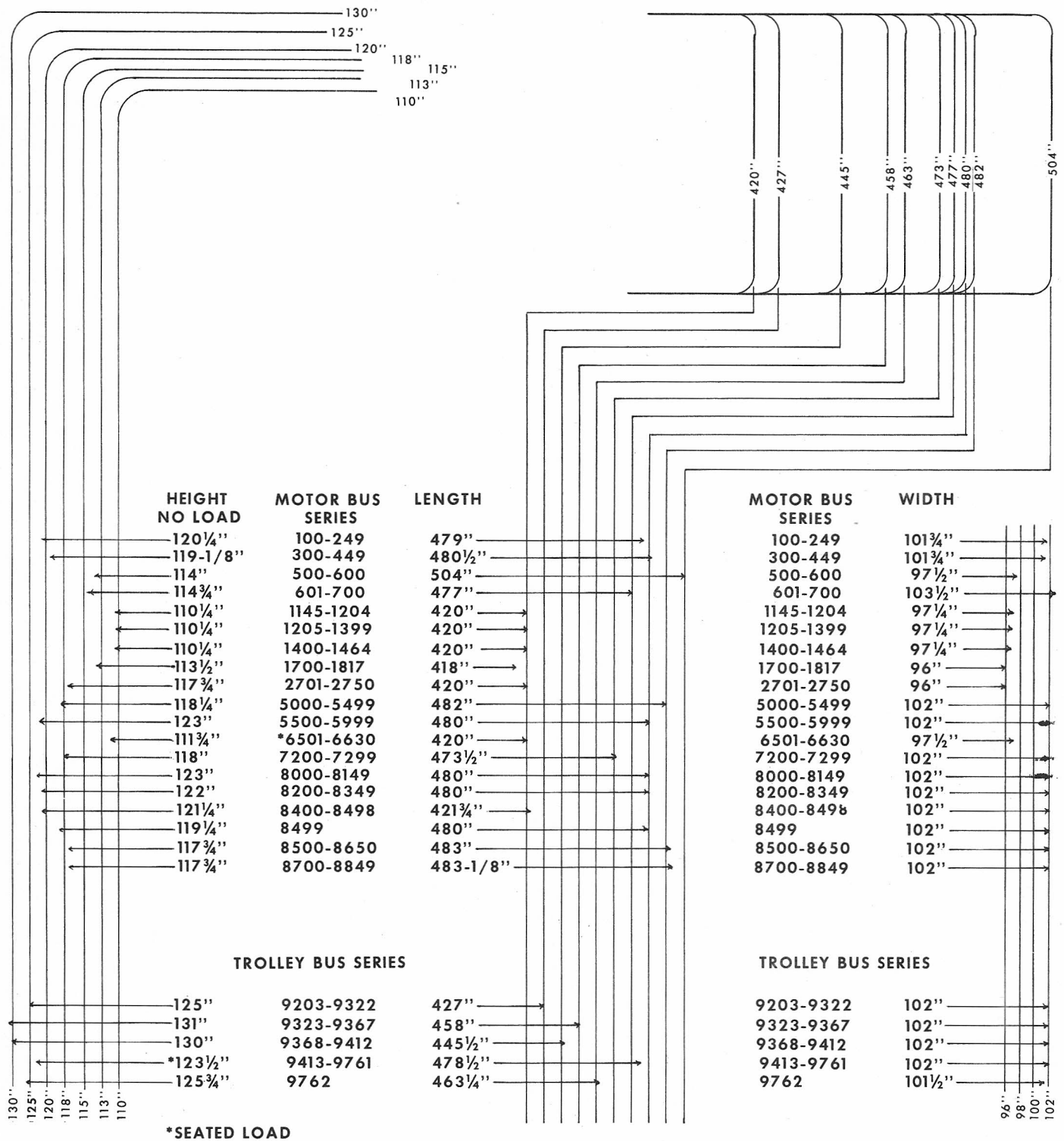
9203-9322	43'-3"	249"	6730	12,380	19,110
9323-9367	41'-0"	240"	6460	13,460	19,920
9368-9412	42'-3"	240"	7460	15,140	22,600
9413-9761	44'-3"	270"	7140	13,200	20,340
9762	40'-0"	247"	6210	12,440	18,650

CHICAGO TRANSIT AUTHORITY

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

DB-81963

CHICAGO TRANSIT AUTHORITY MAXIMUM HEIGHTS, LENGTHS & WIDTHS VARIOUS TYPES OF BUSES

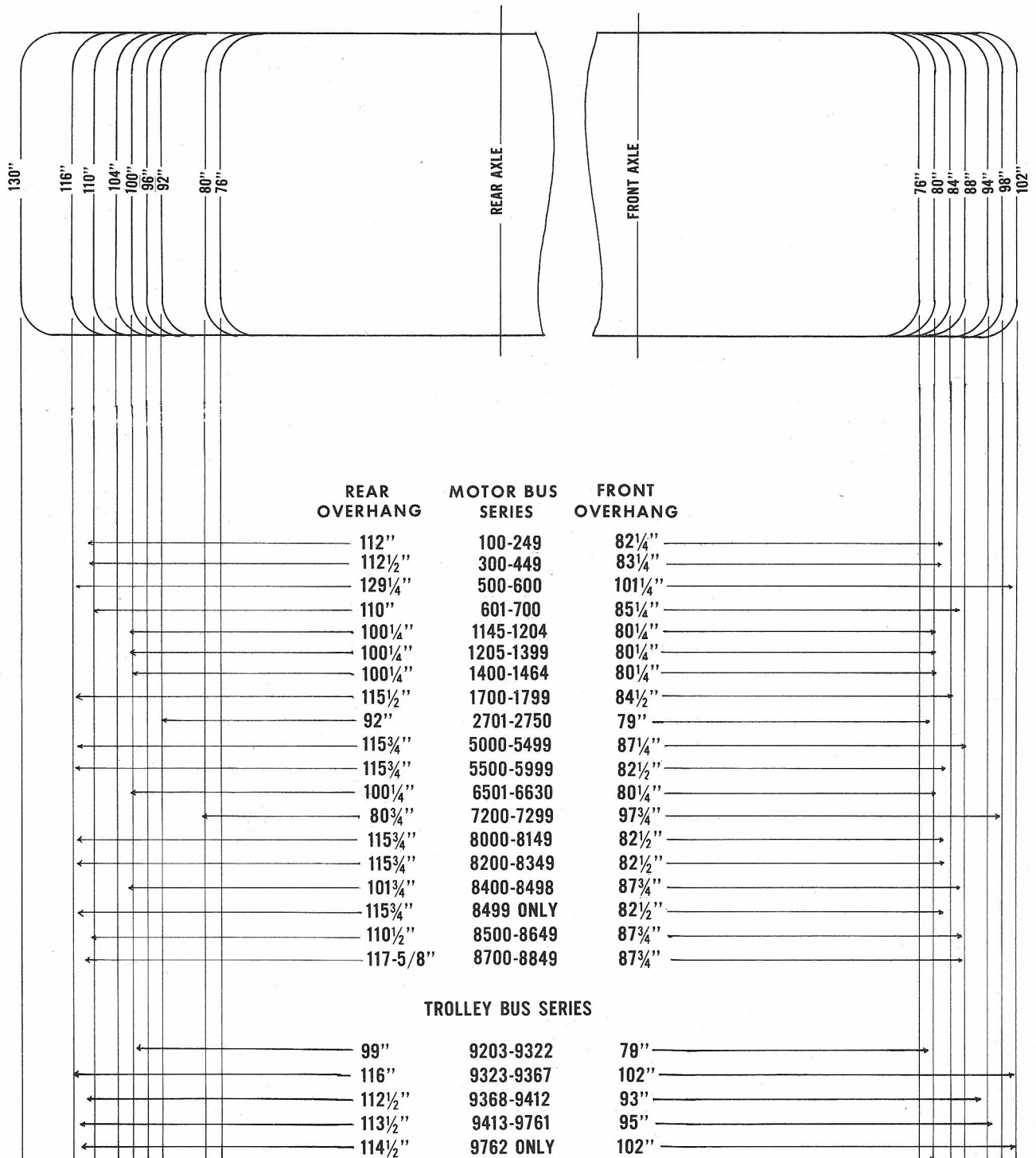


GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

DB-82063

CHICAGO TRANSIT AUTHORITY FRONT & REAR OVERHANG

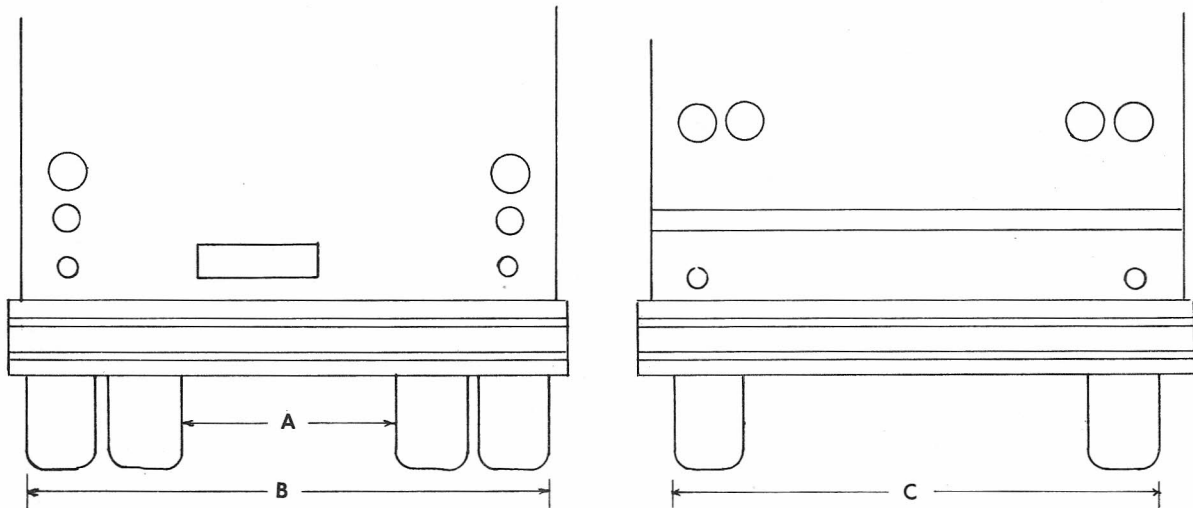
Various Types of Buses



GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

DB-82163

CHICAGO TRANSIT AUTHORITY
TIRE TO TIRE MEASUREMENTS AND TIRE SIZES



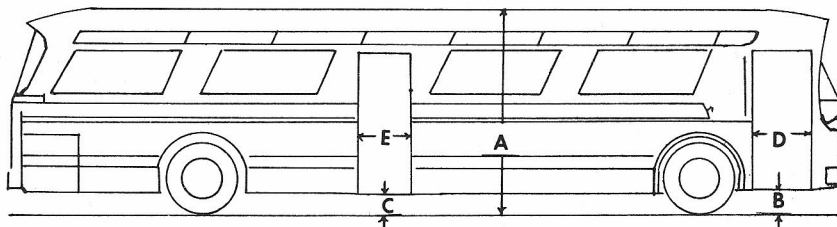
DIMENSION A	DIMENSION B	DIMENSION C	MOTOR BUS SERIES	TIRE SIZES	
				FRONT	REAR
51-7/8"	101"	96 3/4"	100-249	11:00 x 20	11:00 x 20
51-7/8"	101"	96 3/4"	300-449	11:00 x 20	11:00 x 20
46"	95 1/4"	92 3/4"	500-600	11:00 x 20	11:00 x 20
51-7/8"	100 3/4"	98-5/8"	601-700	11:00 x 20	11:00 x 20
49 1/4"	95-7/8"	91-7/8"	1145-1464	10:00 x 20	10:00 x 20
50-9/16"	95 3/4"	93"	1700-1817	11:00 x 20	10:00 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
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
51 1/2"	101"	97 3/4"	8700-8849	12:00 x 22.5	12:00 x 22.5
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

NOTE: Dimension tolerances plus or minus 1/2"

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER

DB-82263

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



MOTOR BUS SERIES	ROOF CROWN	FRONT STEP	REAR 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"
300-449	119-1 $\frac{1}{8}$ "	13 $\frac{1}{2}$ "	15-11 $\frac{1}{16}$ "	27-7 $\frac{1}{8}$ "	* 24 $\frac{3}{4}$ "	22 $\frac{1}{4}$ "
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 $\frac{1}{16}$ "	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1205-1399	110-5 $\frac{1}{16}$ "	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1400-1464	110-5 $\frac{1}{16}$ "	15 $\frac{3}{4}$ "	15"	28"	24"	21 $\frac{1}{4}$ "
1700-1817	111-1 $\frac{1}{8}$ "	16 $\frac{1}{4}$ "	16 $\frac{1}{4}$ "	34"	27"	22"
2701-2750	117 $\frac{3}{4}$ "	16"	17 $\frac{3}{4}$ "	27-5 $\frac{1}{8}$ "	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 $\frac{1}{16}$ "	14-1 $\frac{1}{8}$ "	15-3 $\frac{1}{16}$ "	28"	24"	20"
7200-7299	118"	15 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	30 $\frac{1}{2}$ "	** 22"	27-7 $\frac{1}{8}$ "
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 $\frac{1}{8}$ "	14 $\frac{1}{4}$ "	15-1 $\frac{1}{8}$ "	26 $\frac{1}{4}$ "	* 22 $\frac{1}{2}$ "	22-7 $\frac{1}{16}$ "
8700-8849	117-11 $\frac{1}{16}$ "	14 $\frac{1}{2}$ "	15 $\frac{1}{4}$ "	27 $\frac{3}{4}$ "	* 22 $\frac{1}{2}$ "	23 $\frac{1}{4}$ "

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 $\frac{1}{8}$ "	32"	30"	26"
9323-9367	117-1 $\frac{1}{8}$ "	131"	15"	15"	45"	* 26"	29"
9368-9412	114-3 $\frac{1}{8}$ "	130"	15-7 $\frac{1}{8}$ "	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 $\frac{1}{8}$ "	129-1 $\frac{1}{8}$ "	15 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	45"	27"	27"

*SINGLE EXIT PUSH DOOR

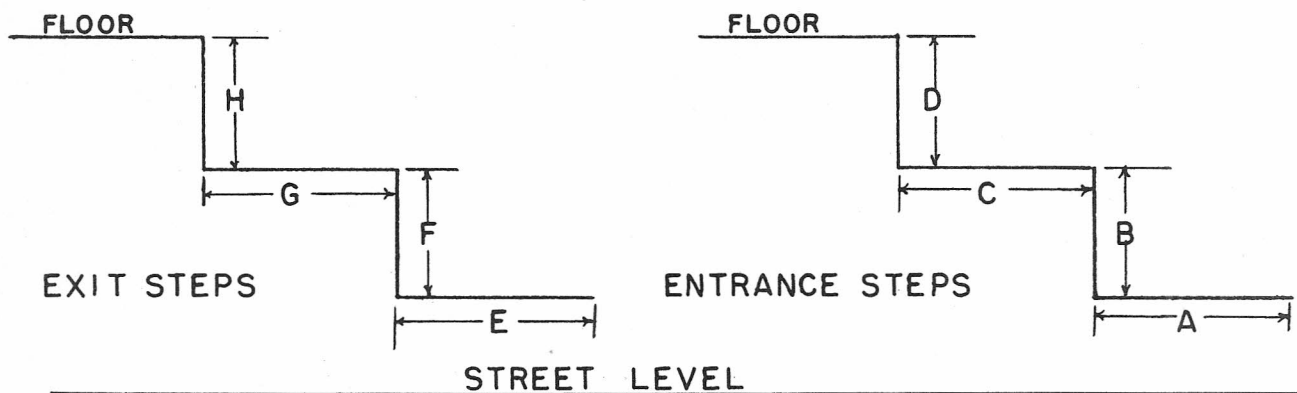
**DOUBLE EXIT PUSH DOOR

°°DOUBLE EXIT TREADLE DOOR

°83 BUSES HAVE SINGLE EXIT PUSH DOORS

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF EQUIPMENT ENGINEER
DB-82363

CHICAGO TRANSIT AUTHORITY STEP TREAD DEPTHS & STEP RISER HEIGHTS



MOTOR BUS SERIES	EXIT STEPS				ENTRANCE STEPS			
	DIM.	DIM.	DIM.	DIM.	DIM.	DIM.	DIM.	DIM.
	E	F	G	H	A	B	C	D
100-249	13-1/8"	9-5/8"	13-3/8"	9-1/2"	12-3/8"	10"	12-3/8"	10"
300-449	13-1/8"	9-5/8"	13-3/8"	9-1/2"	12-3/8"	10"	12-3/8"	10"
500-600	10-1/2"	9-1/4"	11"	9-1/4"	10-1/4"	8-1/2"	10-1/4"	8-1/4"
601-700	10-1/8"	9-1/2"	10-1/8"	9-3/8"	11-3/8"	9"	11"	9"
°1145-1204	21"	13-3/8"			21"-23"	12-3/4"		
°1205-1399	21"	13-3/8"			21"-23"	12-3/4"		
°1400-1464	21"	13-3/8"			21"-23"			
1700-1817	11-3/4"	8-5/8"	10-1/2"	7-5/8"	15-3/8"	8-1/2"	10-3/8"	8-1/4"
2701-2750	12-1/4"	10-1/2"	12"	9-1/2"	12-1/4"	9-1/2"	11-1/2"	9-1/4"
5000-5499	17-3/8"	8-5/8"	11-7/8"	8-1/8"	14-7/8"	8-1/8"	10-3/4"	8-3/8"
5500-5999	13-1/8"	10"	13-1/8"	10"	14-3/8"	10"	13-1/4"	10"
°6501-6630	21-1/4"	12-3/8"			20"-23"	12-7/8"		
7200-7299	10-5/8"	9-3/4"	10-3/4"	9-3/4"	10"-11"	9"	10-1/2"-11-1/2"	9-1/4"
8000-8149	13-1/8"	10"	13-1/8"	10"	14-3/8"	10"	13-1/4"	10"
8200-8349	13-1/8"	10"	13-1/8"	10"	14-3/8"	10"	13-1/4"	10"
8400-8499	13-1/8"	10"	13-1/8"	10"	14-3/8"	10"	13-1/4"	10"
8500-8650	12-7/8"	10"	13-1/4"	10"	14-3/8"	10-1/2"	13"	10-1/2"
8700-8849	12-7/8"	10"	13-1/4"	10"	14-3/8"	10-1/2"	13"	10-1/2"
TROLLEY BUSES								
9203-9322	11-1/2"	8-1/4"	11-1/2"	8-1/4"	12-1/2"	9-3/4"	13-1/2"	9-1/2"
9323-9367	13-1/4"	9-1/2"	13-1/2"	9-1/4"	11-3/4"	9-1/4"	10-1/4"	9-1/4"
9368-9412	12-3/4"	9"	12-1/2"	9-1/4"	11"	8-3/4"	10-3/4"	9-1/4"
9413-9761	11"	8-1/2"	11-3/4"	9"	13"-13-3/4"	8-1/4"	11-3/4"	9"
9762	11-1/2"	8-1/4"	11-1/2"	8-1/4"	12-1/2"	9-3/4"	13-1/2"	9-1/2"

GENERAL SUPERINTENDENT OF ENGINEERING

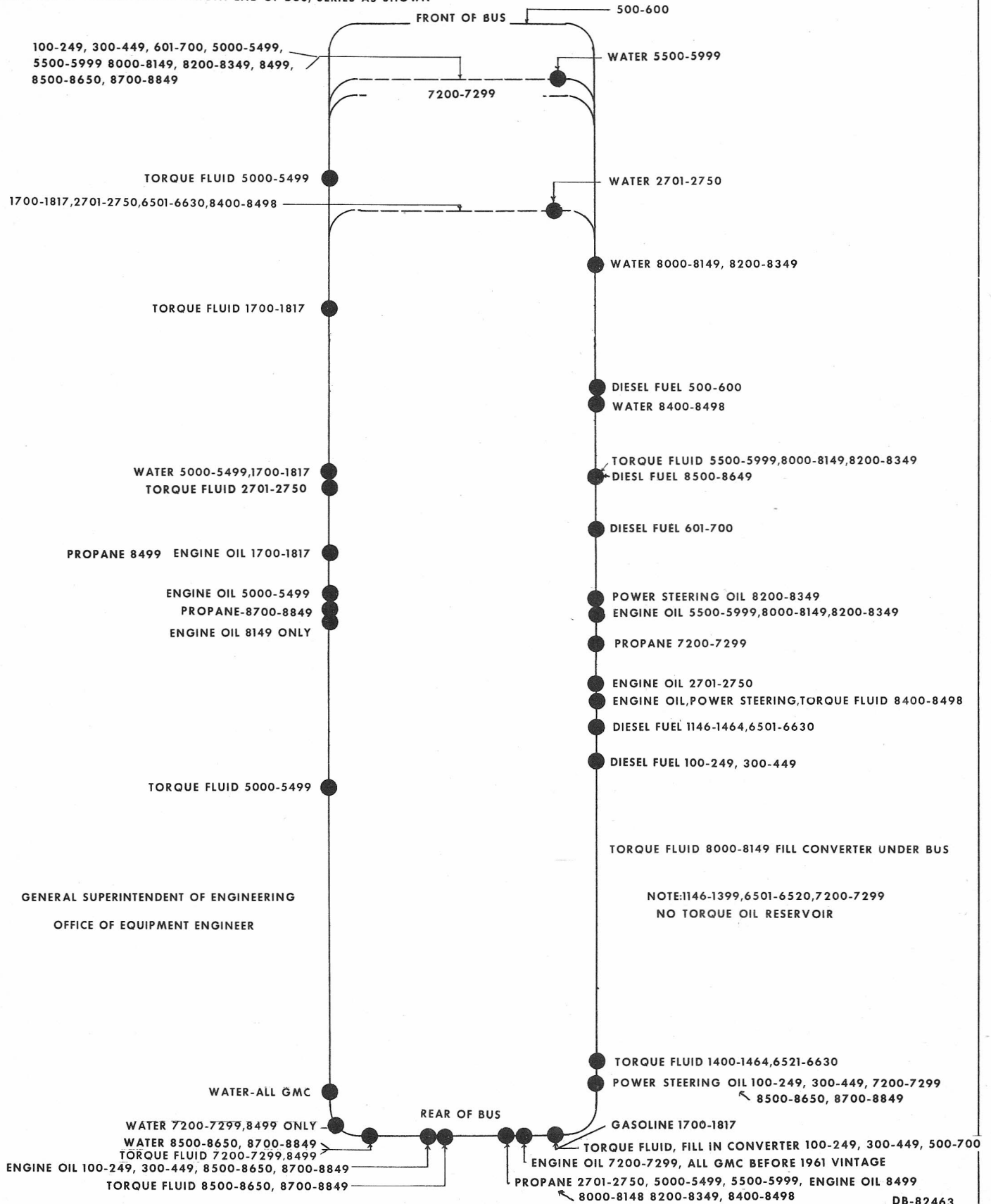
OFFICE OF ENGINEER OF EQUIPMENT

° SINGLE STEP

DB-92663

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



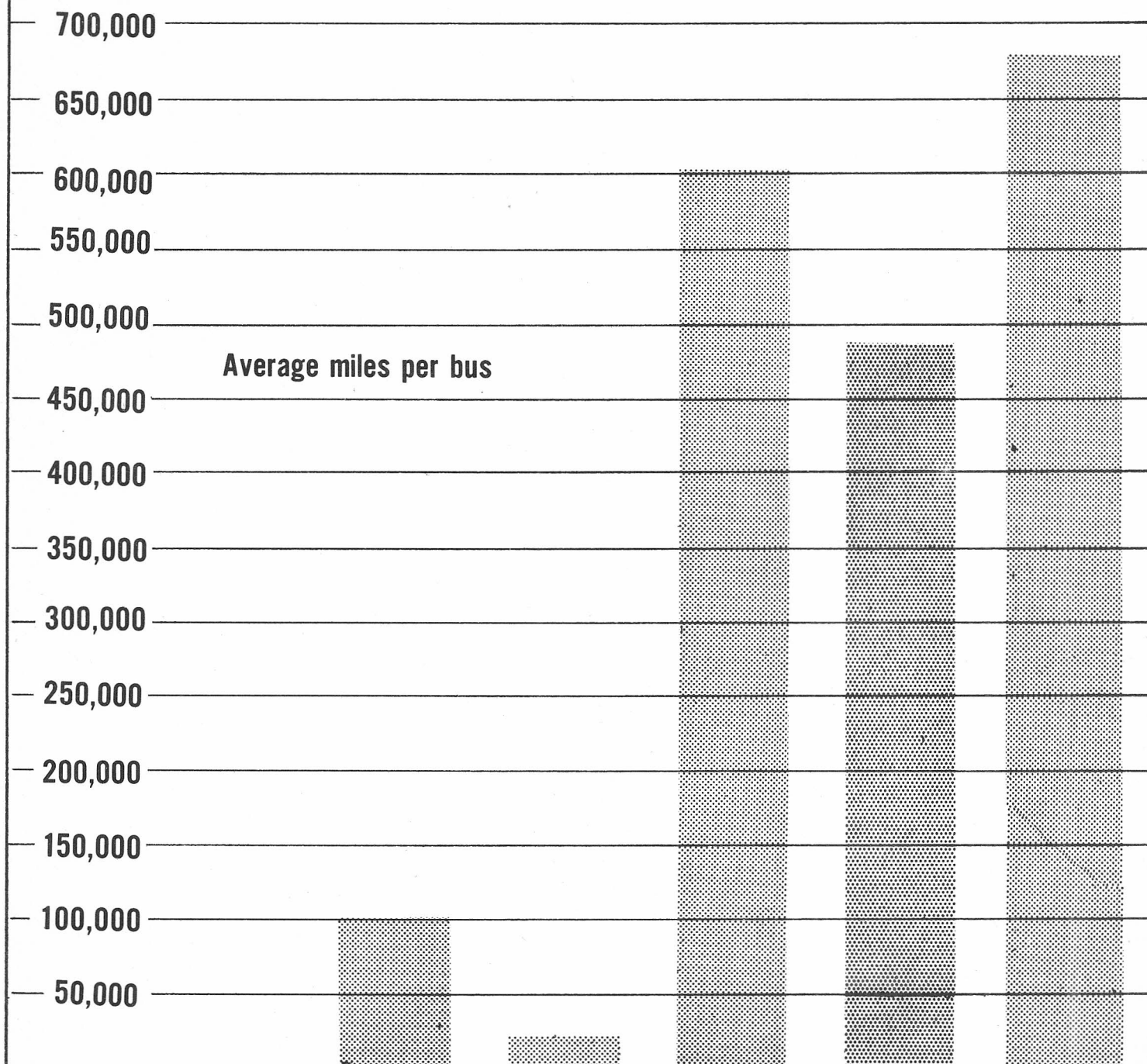
CHICAGO TRANSIT AUTHORITY
RECOMMENDED "ON THE STREET" SCHEDULE MILES
FOR THE VARIOUS TYPE MOTOR BUSES

BUS SERIES	FUEL TANK CAPACITY "GALLONS"	*AVERAGE MILES PER GALLON	TOTAL MILES PER TANK OF FUEL	RECOMMENDED SCHEDULE MILES
100-249	95	4.08	387	387
300-449	95	4.05	384	384
500-600	85	3.85	327	327
601-700	85	3.59	305	305
1145-1204	85	3.81	323	323
1205-1464	85	4.17	354	354
1700-1817	125	3.14	392	392
2701-2750	92	1.88	172	172
5000-5499	100	2.24	224	224
5500-5999	100	2.04	204	204
6501-6530	85	3.96	336	336
6531-6630	100	3.96	396	396
7200-7299	125	1.96	245	245
8000-8148	125	1.94	242	242
8149	85	4.86	413	413
8200-8349	125	2.24	280	280
8400-8498	125	2.35	293	293
**8499	125	1.74	217	217
8500-8650	95	3.80	361	361
** 8700-8849	130	2.36	306	306

* BASED ON AVERAGE FOR WINTER MONTHS 1962-1963

** APPROXIMATE, INSUFFICIENT MILEAGE TO ESTABLISH AN AVERAGE

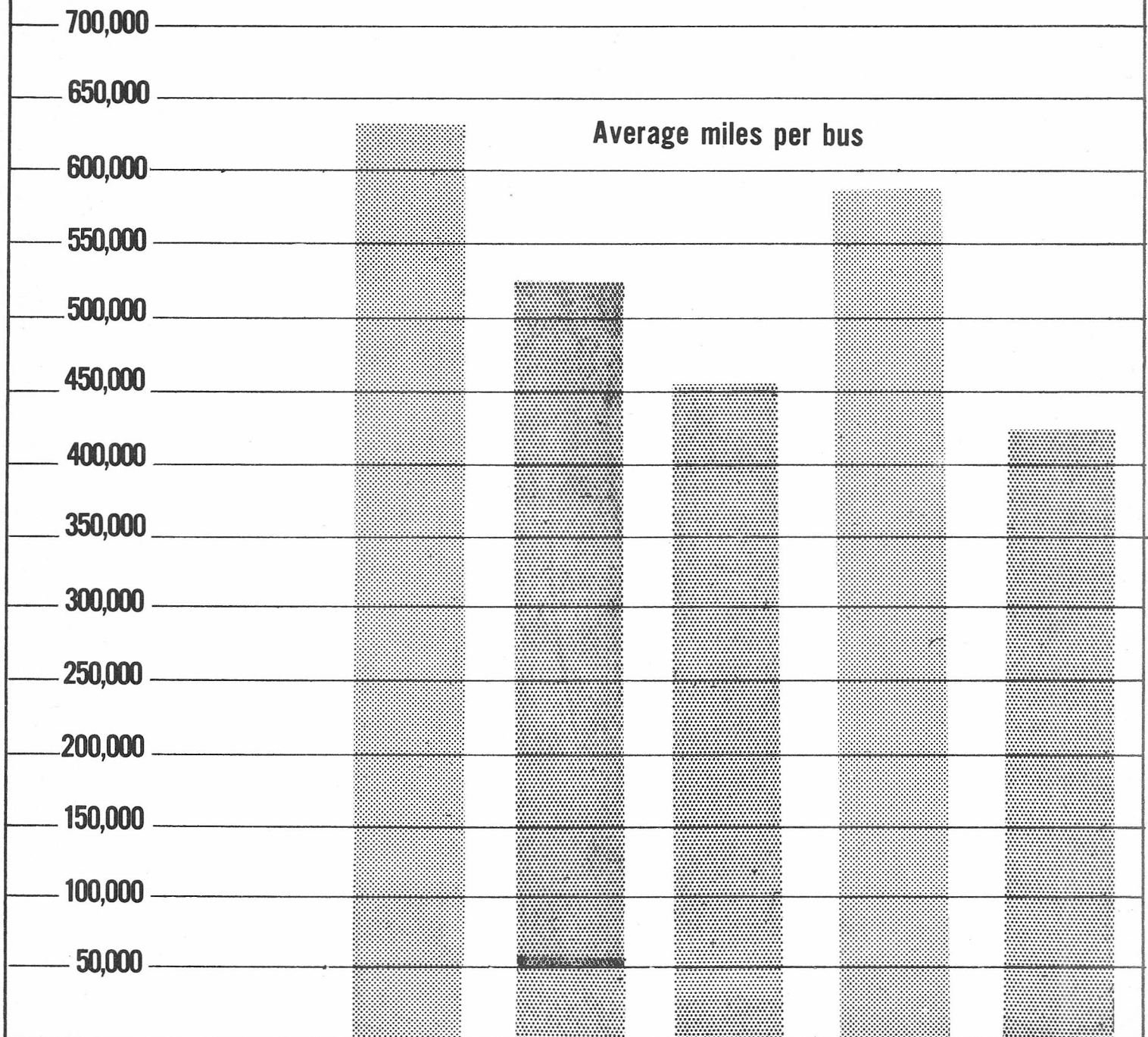
AVERAGE MILES OPERATED PER BUS BY BUS SERIES AND ACCUMULATED MILEAGE IN THOUSANDS



BUS SERIES	100-249	300-449	500-600	601-700	1145-1169
NO. OF BUSES	150	150	100	100	22
ACC. MILEAGE	15,106	3,277	60,342	48,576	14,904
YR. PURCHASED	1961	1962,63	1948	1950-51	1940

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

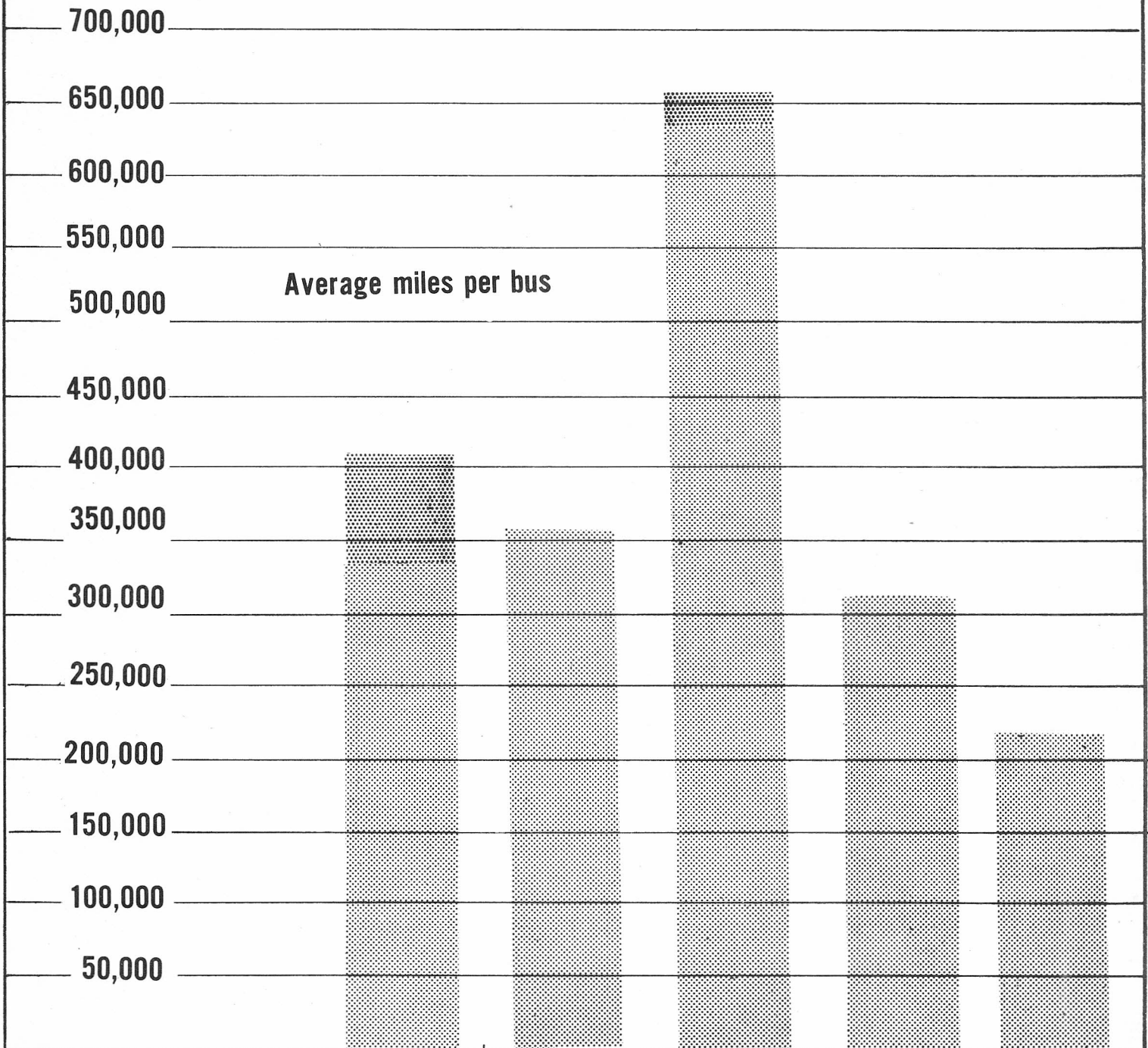
**AVERAGE MILES OPERATED PER BUS
BY BUS SERIES
AND
ACCUMULATED MILEAGE IN THOUSANDS**



BUS SERIES	1170-1204	1205-1399	1400-1464	1700-1817	2701-2750
NO. OF BUSES	25	166	62	54	40
ACC. MILEAGE	15,044	79,587	27,456	27,673	14,391
YR. PURCHASED	1942	1945-46	1947-48	1947-48	1951

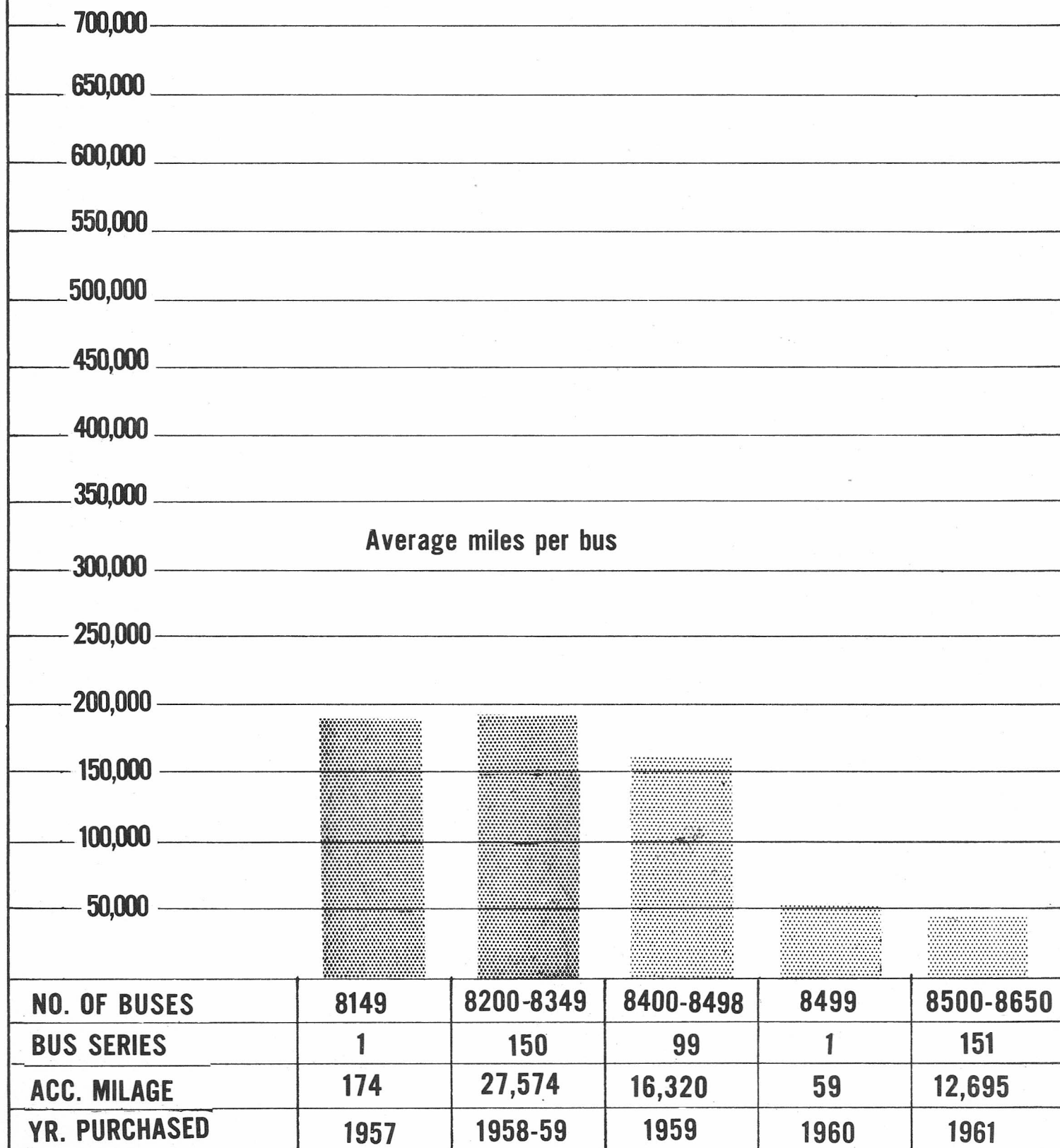
GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT

**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**



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

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

700,000

650,000

600,000

550,000

500,000

450,000

400,000

350,000

Average miles per bus

300,000

250,000

200,000

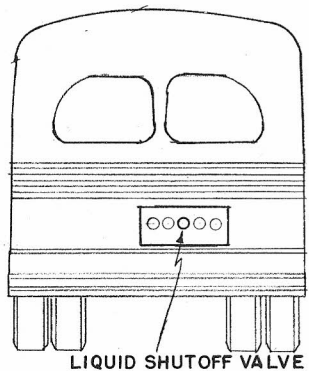
150,000

100,000

50,000

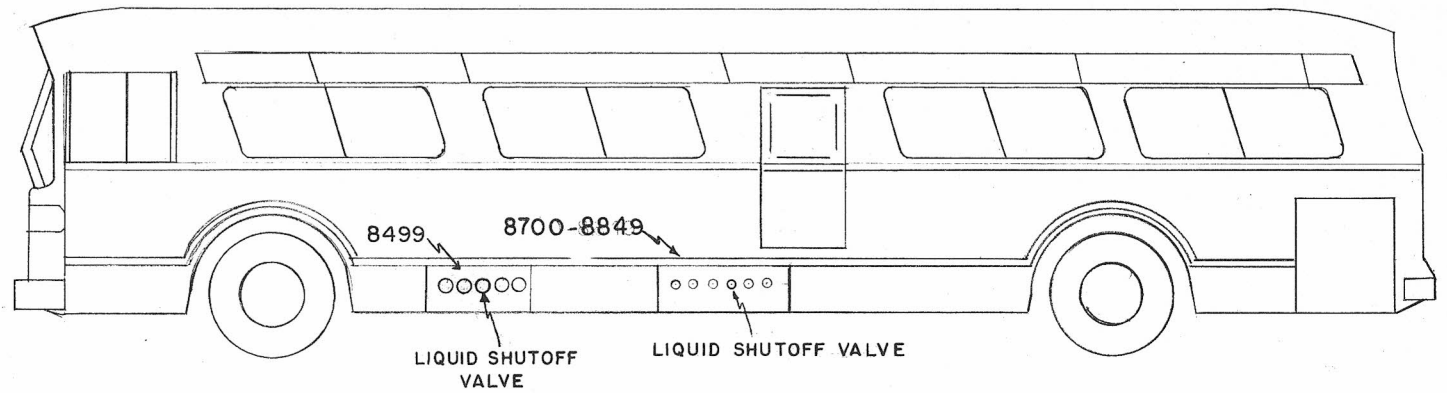
BUS SERIES	8700-8849				
NO. OF BUSES	150				
ACC. MILEAGE	1,159				
YR. PURCHASED	1963				

GENERAL SUPERINTENDENT OF ENGINEERING
OFFICE OF ENGINEER OF EQUIPMENT



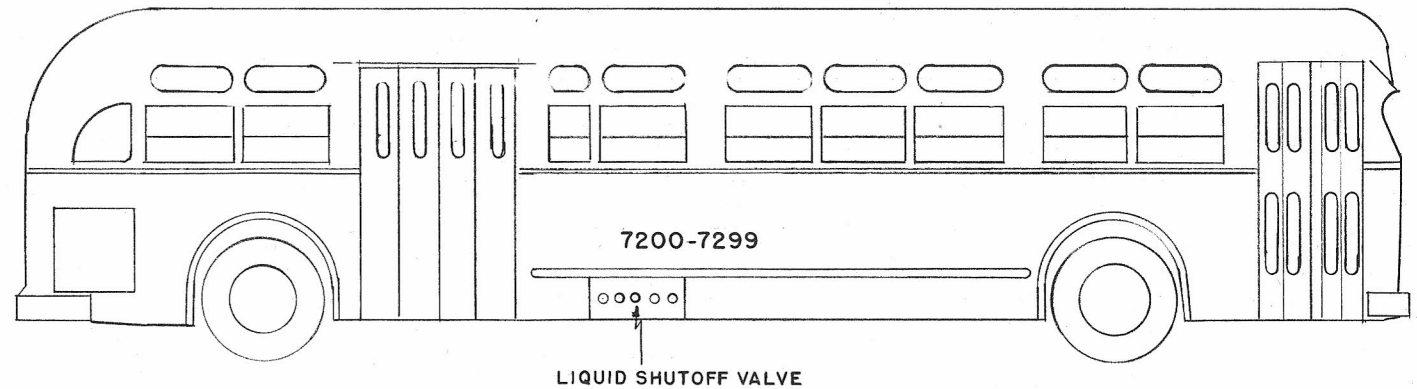
LIQUID SHUTOFF VALVE

2701- 2750
5000-5499
5500-5999
8000-8148
8200-8349
8400-8498



LIQUID SHUTOFF VALVE

LIQUID SHUTOFF VALVE



LIQUID SHUTOFF VALVE

CHICAGO TRANSIT AUTHORITY

PROPANE

SHUTOFF VALVE LOCATIONS

GENERAL SUPERINTENDENT OF ENGINEERING

OFFICE OF ENGINEER OF EQUIPMENT

E-92263

