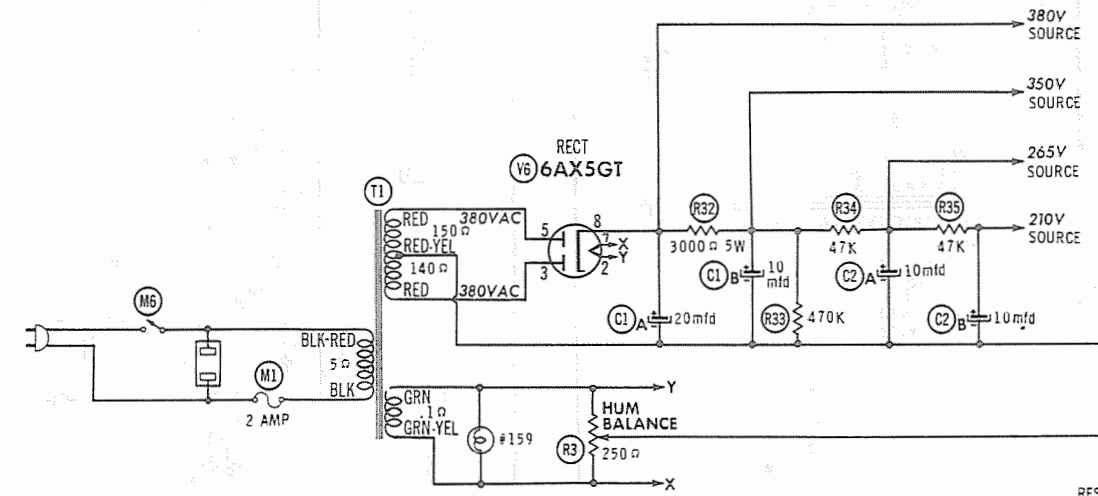
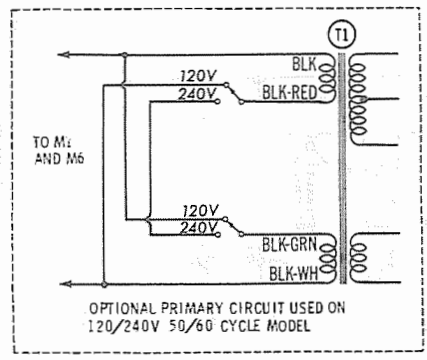


M3 MODE SWITCH SHOWN IN POSITION 1.
 1. NORMAL
 2. PAGE
 3. ON

M4 TONE SWITCH SHOWN IN POSITION 1.
 1. TREBLE CUT
 2. BASS BOOST
 3. FLAT
 4. BASS & TREBLE BOOST
 5. TREBLE BOOST

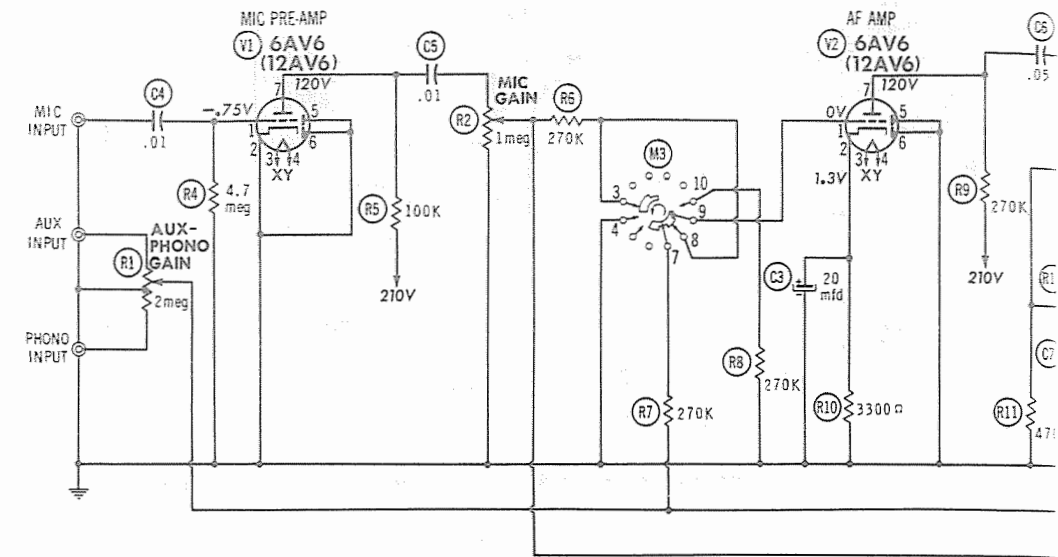
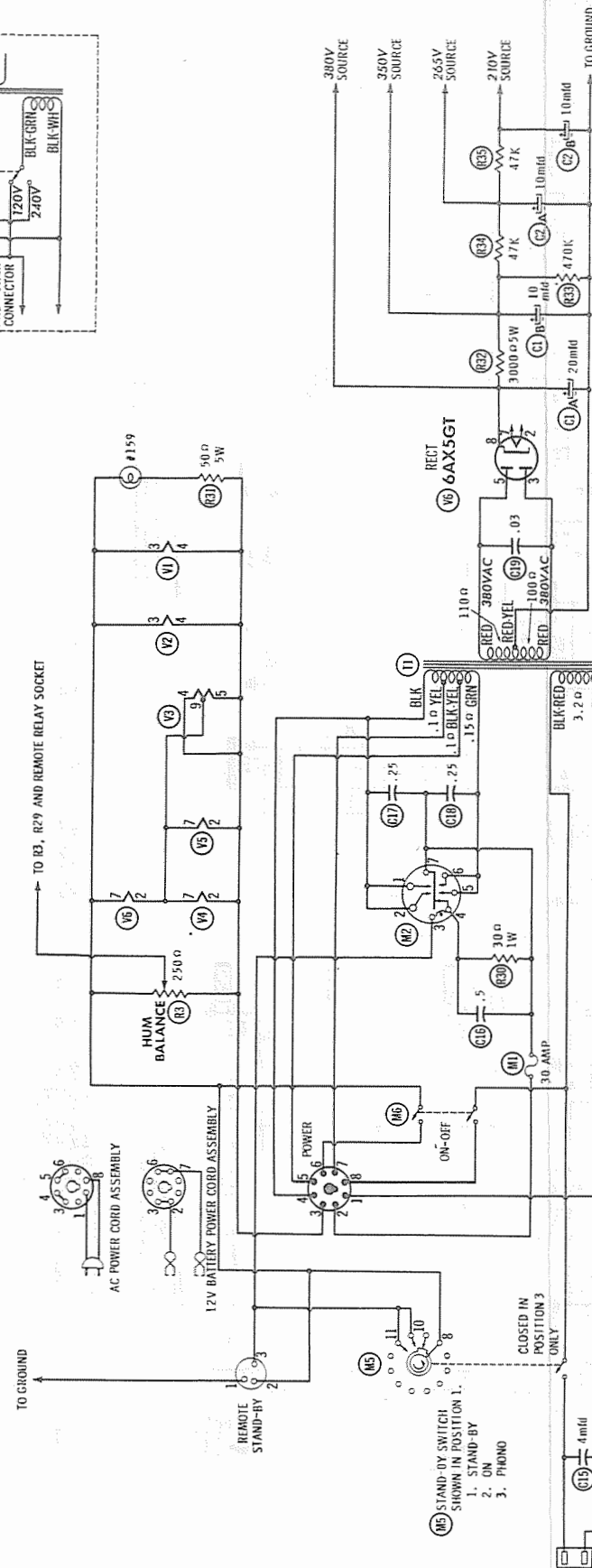
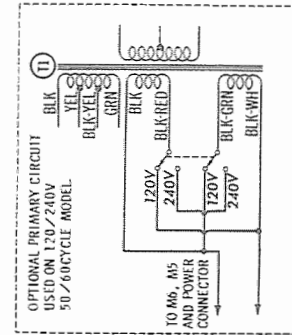


NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- All controls at minimum, proper output load connected.

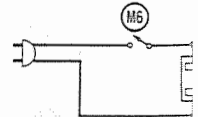
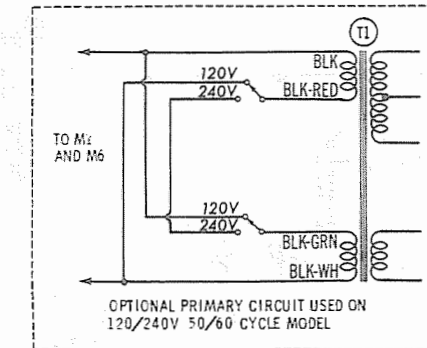
RESISTANCE READINGS									
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	6AV6 (12AV6)	4.7meg	0 Ω	FIL	FIL	0 Ω	0 Ω	$\pm 170K$	
V2	6AV6 (12AV6)	170K	3300 Ω	FIL	FIL	0 Ω	0 Ω	$\pm 360K$	
V3	12AX7	$\pm 520K$	120K	6800 Ω	FIL	FIL	$\pm 270K$	1.2meg	223K
V4	6V6GT	TP	FIL	$\pm 140\Omega$	$\pm 3000\Omega$	270K	NC	FIL	250 Ω
V5	6V6GT	TP	FIL	$\pm 150\Omega$	$\pm 3000\Omega$	270K	TP	FIL	250 Ω
V6	6AX5GT	TP	FIL	100 Ω	TP	110 Ω	NC	FIL	$\pm 130K$

ALL CONTROLS IN MAXIMUM COUNTERCLOCKWISE POSITION.
 † MEASURED FROM PIN 8 OF V6.
 9 THIS READING WILL VARY DEPENDING ON CONDITION OF ELECTROLYTIC CAPACITORS IN CIRCUIT.



(M3) MODE SWITCH SHOWN IN POSITION 1.

1. NORMAL
2. PAGE
3. ON

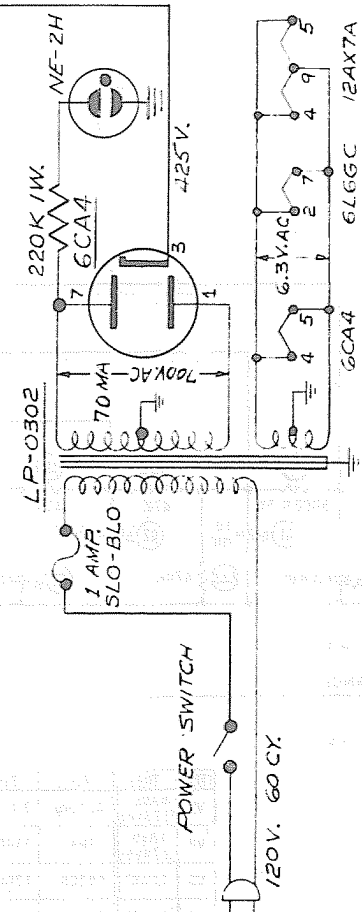


NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

1. DC voltage
2. AC voltage
3. Socket con
4. Measured
5. Line voltag
6. Nominal to
- variation c
6. All control

AUX 2

CHMS, HAVE A TOLERANCE OF $\pm 10\%$,
AND A WATTAGE RATING OF $\frac{1}{2}$ WATT,
UNLESS OTHERWISE STATED.
3. ALL CAPACITORS ARE RATED IN
MICROFARADS, HAVE A TOLERANCE
OF $\pm 10\%$, AND A VOLTAGE OF 600V,
UNLESS OTHERWISE STATED.



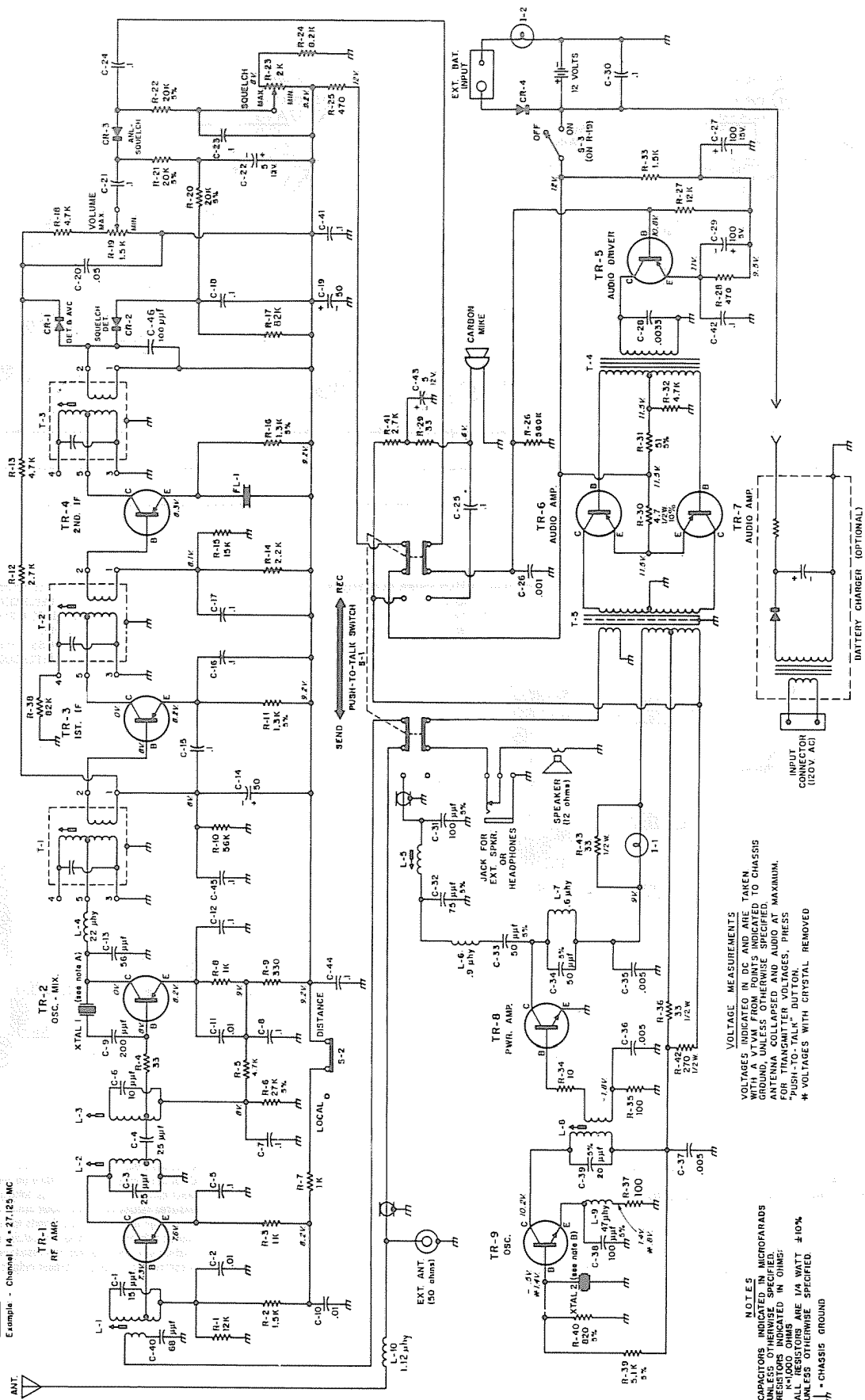
NOTE A - Crystal should be 455KC higher than incoming signal.
Example - Frequency of crystal = 455 KC + 27.500 MC
NOTE B - Frequency of crystal
Example - Channel 14 = 27.125 MC

NOTE C - Crystal selected for desired channel
Example - Channel 14 = 27.125 MC

NOTE: TRANSFORMER RING
VIEWED FROM BOTTOM.

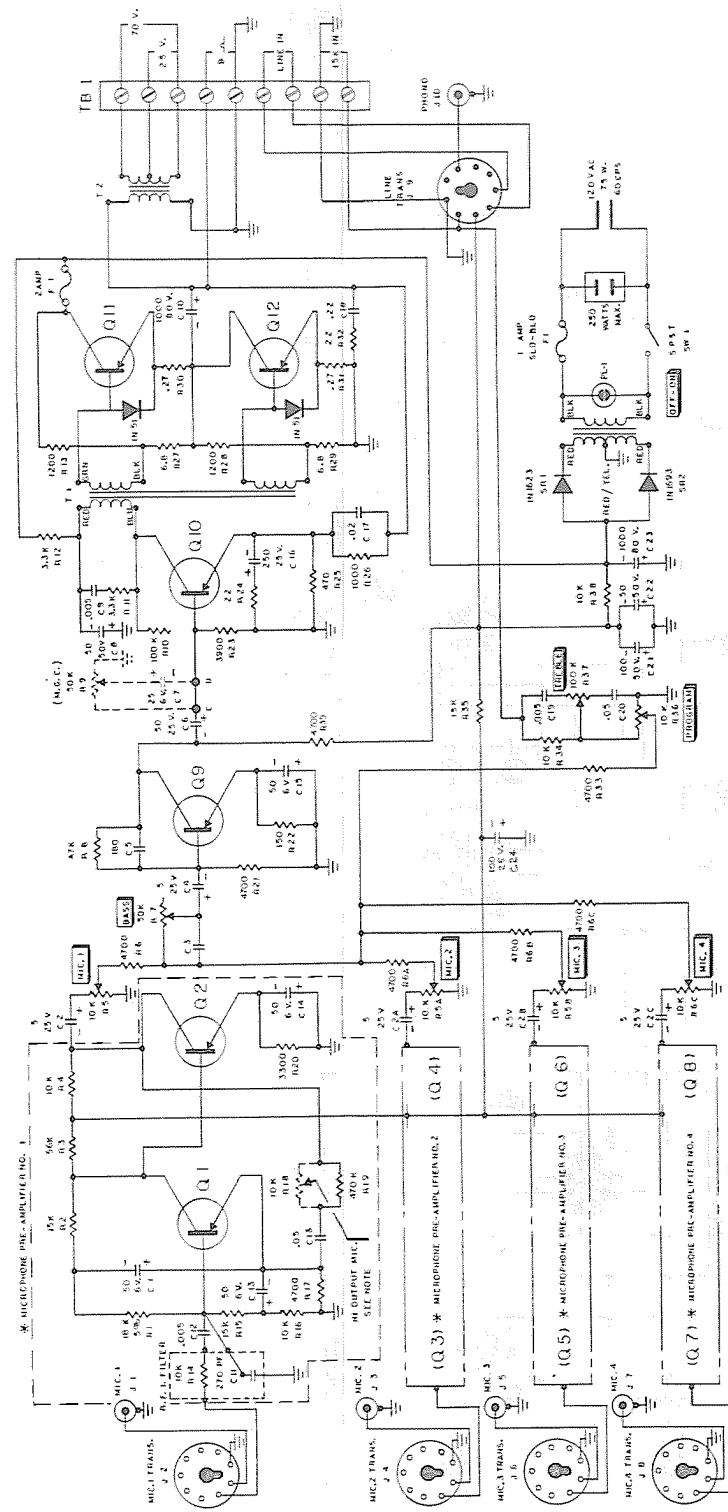
43 44
45 46

43 44
45 46



VOLTAGE MEASUREMENTS
VOLTAGES INDICATED IN DC ARE TAKEN
WITH A VTVM FROM POINTS SPECIFIED TO CHASSIS
UNLESS OTHERWISE SPECIFIED. MAXIMUM
ANTENNA LENGTH 10 FEET.
* "PUSH-TO-TALK" BUTTON, PRESS
* VOLTAGES WITH CRYSTAL REMOVED

NOTES
CAPACITORS INDICATED IN MICROFARADS
UNLESS OTHERWISE SPECIFIED.
RESISTORS INDICATED IN OHMS;
ALL RESISTORS ARE $\frac{1}{4}$ WATT $\pm 10\%$
UNLESS OTHERWISE SPECIFIED
* CHASSIS GROUND



* NOTE
MIC-2 TRANS. MIC-2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 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422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 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