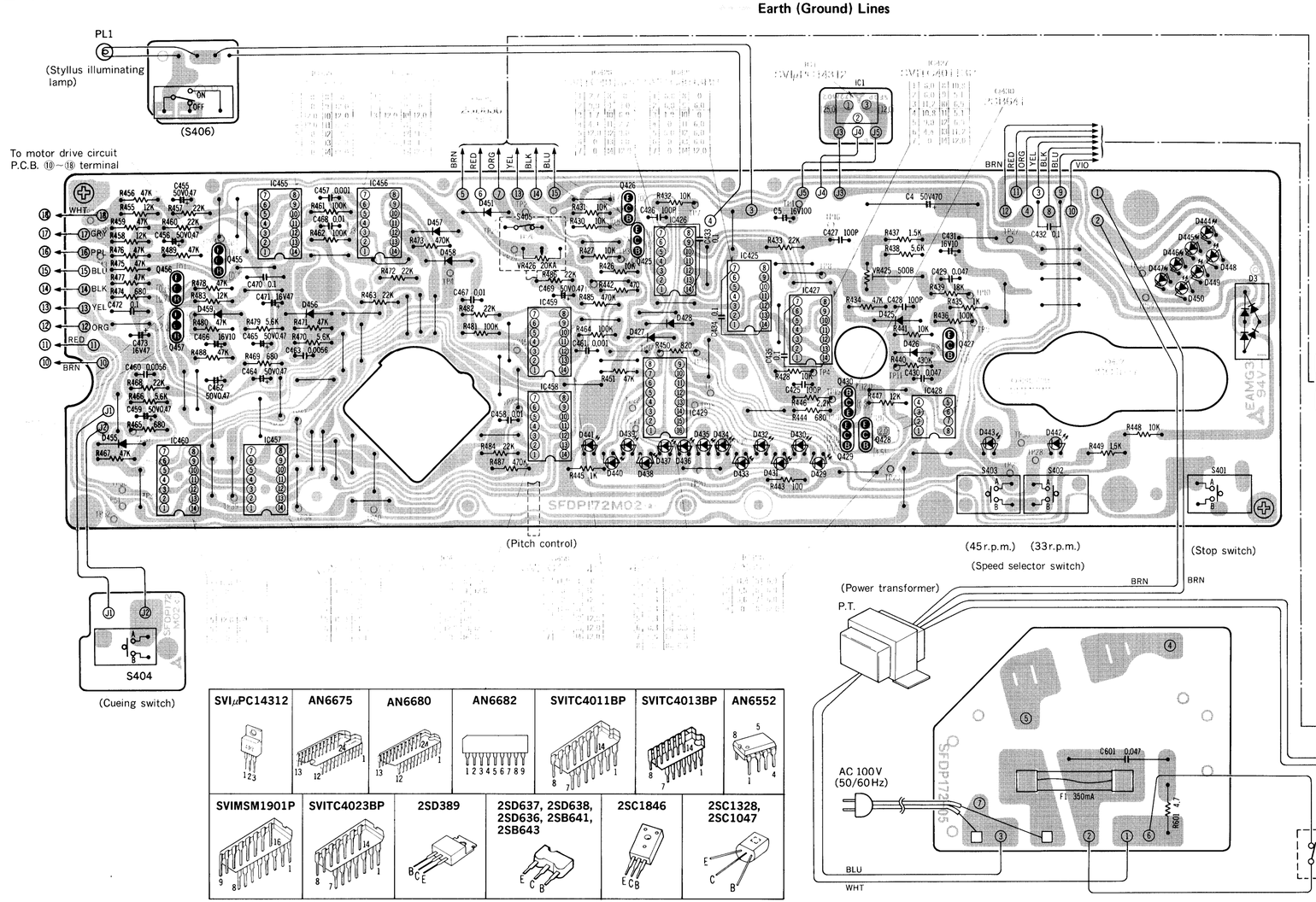
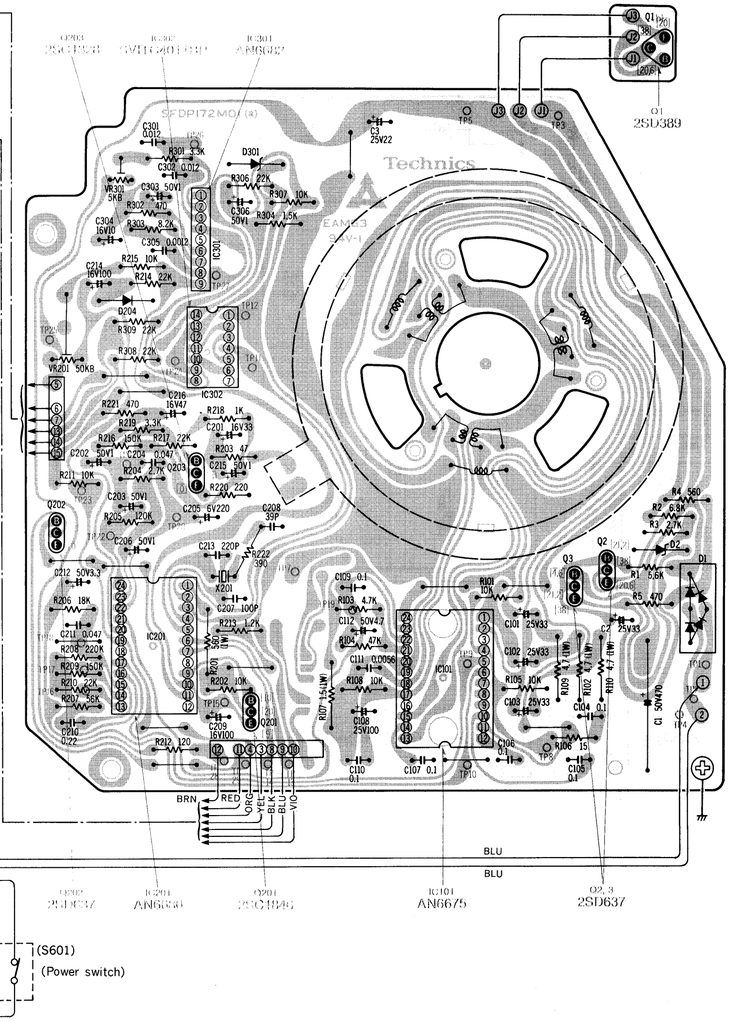
■ CONTROL CIRCUIT BOARD

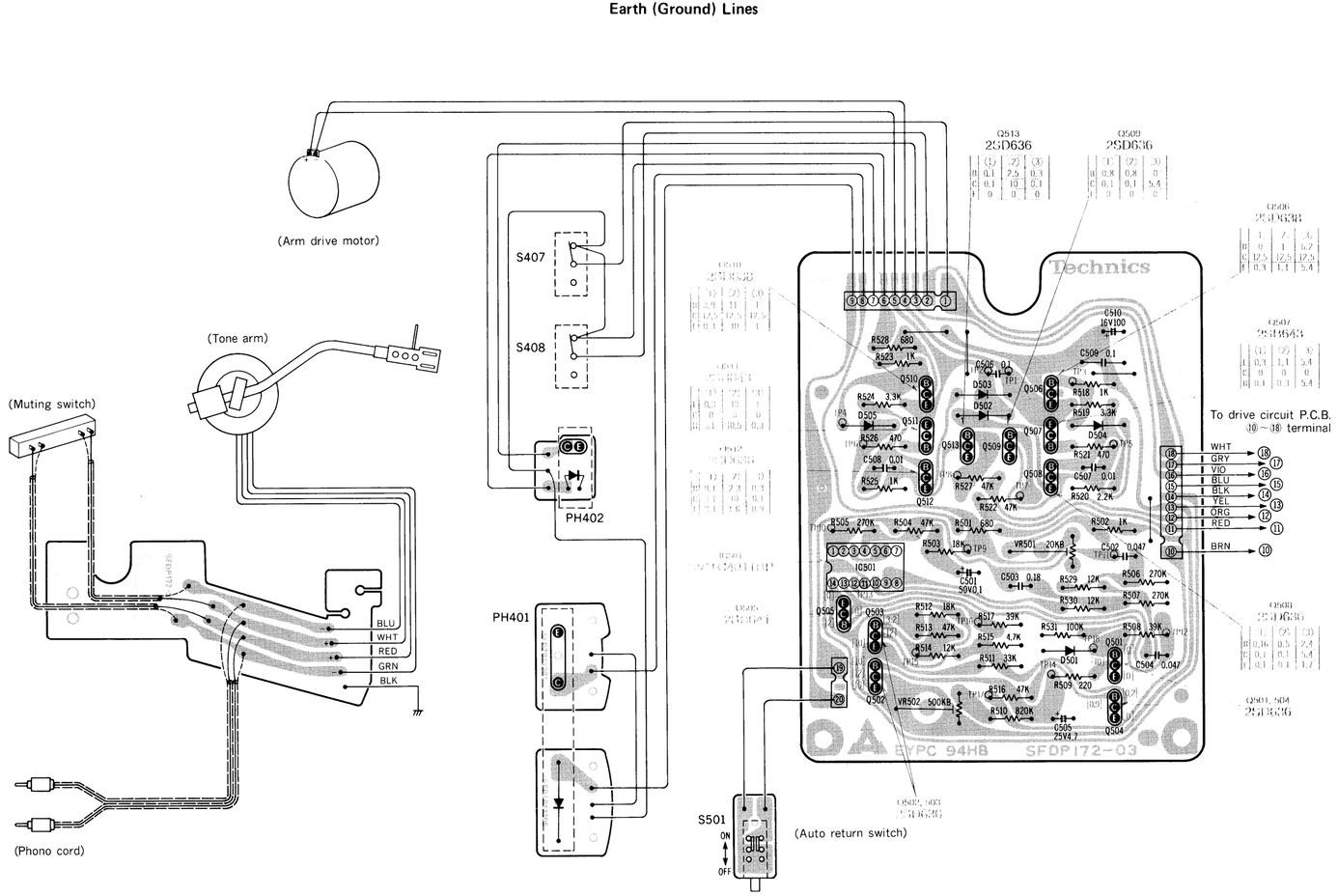


SVIμPC14312	AN6675	AN6680	AN6682	SVITC4011BP	SVITC4013BP	AN6552
SVIMSM1901P	SVITC4023BP	2SD389	2SD637, 2SD638, 2SD636, 2SB641, 2SB643	2SC1846	2SC1328, 2SC1047	

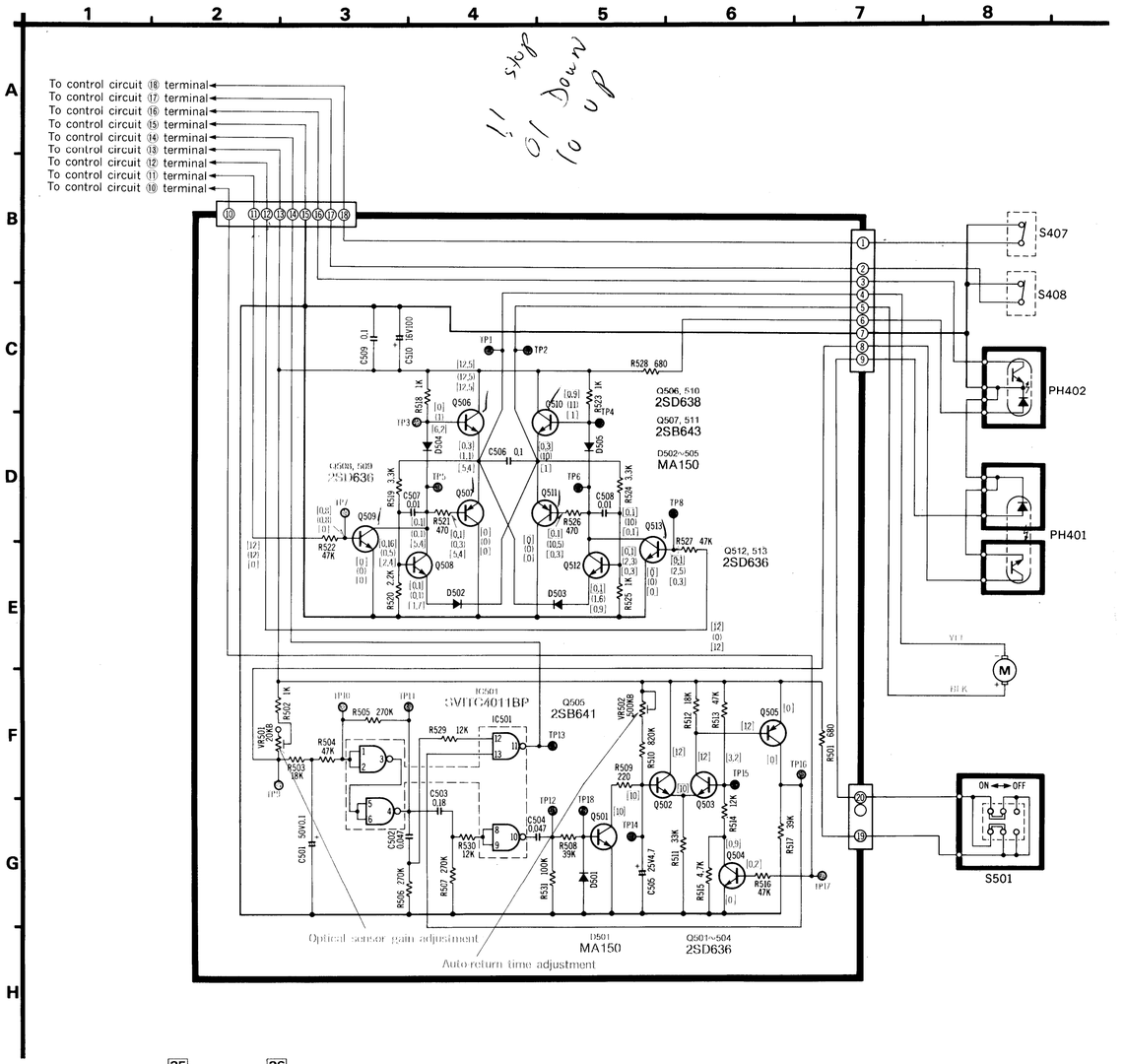
■ DRIVE CIRCUIT BOARD



■ TONE ARM DRIVE CIRCUIT BOARD



■ SCHEMATIC DIAGRAM 3 (Tone Arm Drive Circuit Board)

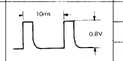


■ REFERENCE VOLTAGE AND WAVEFORM AT EACH IC

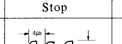
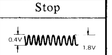
IC101 (AN6675)

	Start	Stop
①	2V	2V
②	2V	2V
③	0V	0V
④	5V	5V
⑤	5V	5V
⑥	5V	6.6V
⑦	0V	0V
⑧	5V	5V
⑨	0V	0V
⑩		15V
⑪		
⑫		15V
⑬		
⑭	15V	15V
⑮		
⑯	0V	0V
⑰	15V	15V
⑱	Same as at right	
⑲	20V	20V
⑳	20V	20V
㉑	20V	20V
㉒	0.2V	0.2V
㉓	20V	20V
㉔	1.7V	1.7V

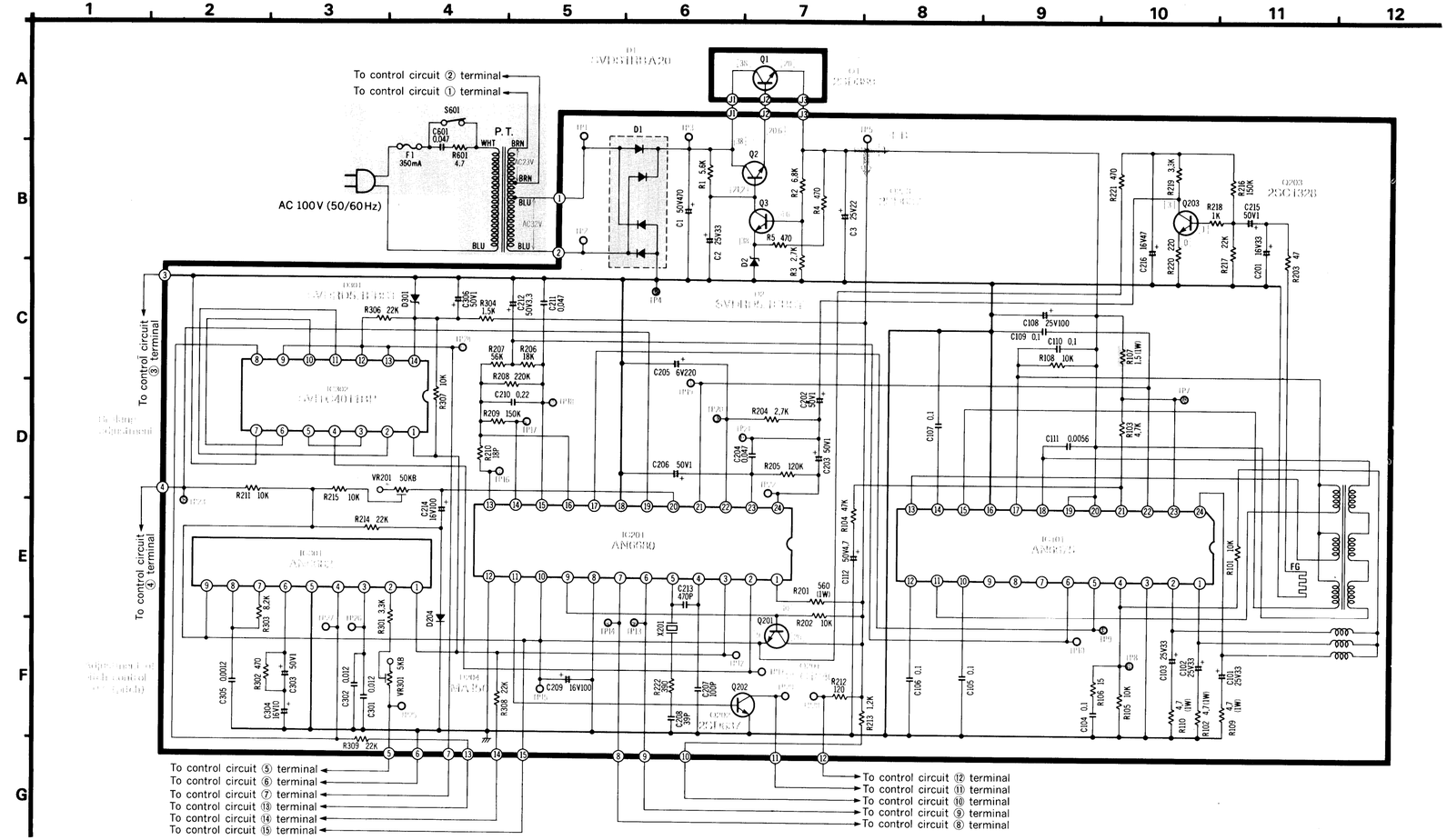
IC201 (AN6680)

	Start	Stop
①	2.5V	2.5V
②	Same as at right	
③	Same as at right	
④	Same as at right	
⑤	Same as at right	
⑥	3.4V	3.4V
⑦	0V	0V
⑧	0V	0V
⑨	9.8V	9.8V
⑩	10V	10V
⑪	Same as at right	
⑫	0V	0V
⑬		0.2V
⑭		
⑮		8V
⑯	5V	2.5V
⑰	5V	5V
⑱	0V	0V
⑲	7.5V	0V
⑳	0V	5V
㉑	1.5V	0V
㉒	3V	3V
㉓		3V
㉔	2.8V	2.8V

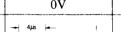
IC301 (AN6682)

	Start	Stop
①	Same as at right	
②	Same as at right	
③	Same as at right	
④	Same as at right	
⑤	0V	0V
⑥	3.9V	3.9V
⑦	Same as at right	
⑧	Same as at right	
⑨	9V	9V

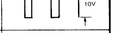
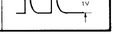
■ SCHEMATIC DIAGRAM 2 (Drive Circuit Board)



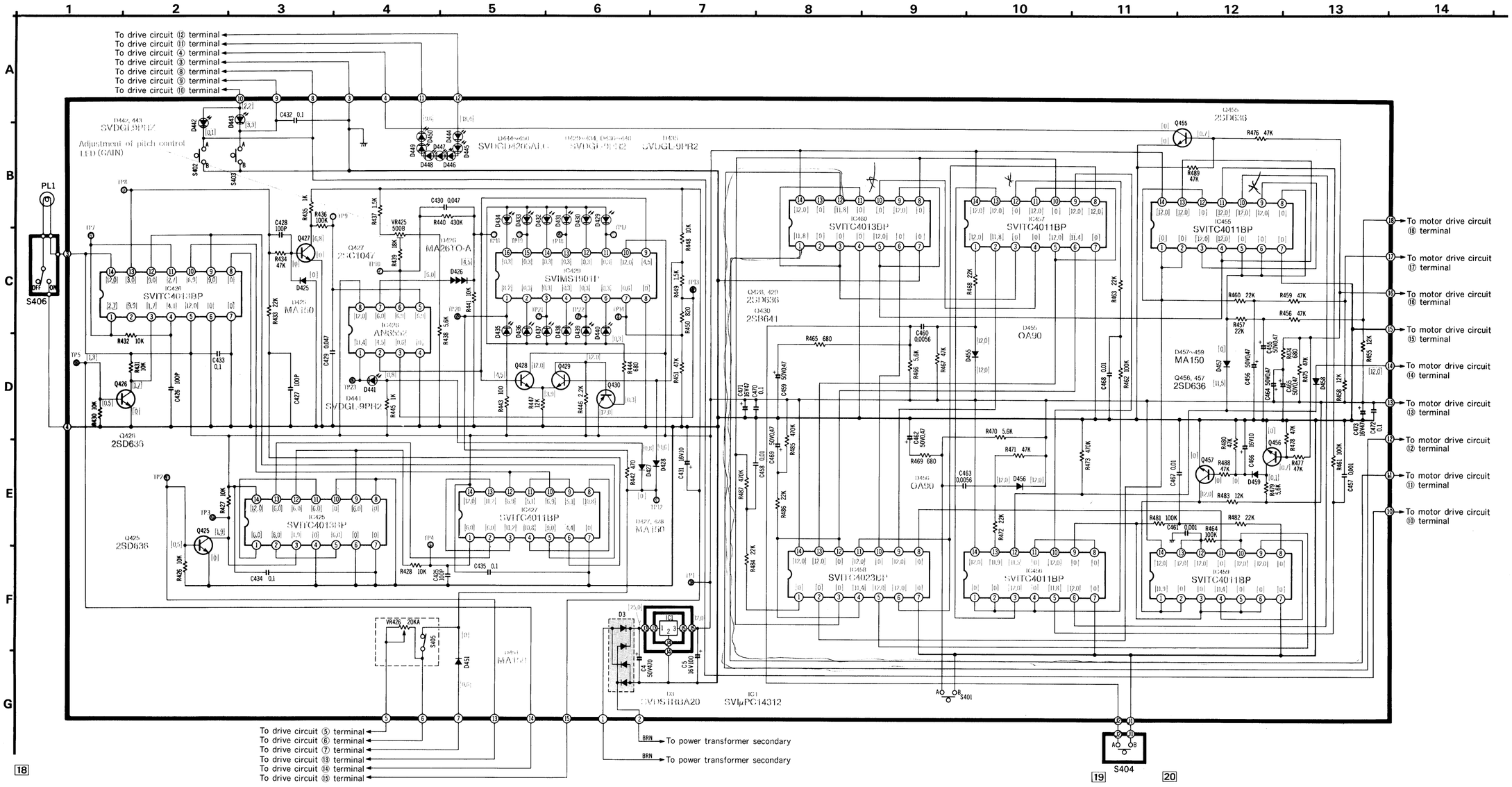
IC302 (SVITC4011BP)

	Start	Stop
①	Same as at right	
②	5V	5V
③	Same as at right	
④	5V	5V
⑤	Same as at right	
⑥	5V	5V
⑦	0V	0V
⑧	Same as at right	
⑨	5V	5V
⑩	5V	5V
⑪	5V	5V
⑫	0.6V	0.6V
⑬	0.6V	0.6V
⑭	5V	5V

Q202 (2SD637)

	Start	Stop
E	0V	0V
C	Same as at right	
B	Same as at right	

■ SCHEMATIC DIAGRAM 1 (Control Circuit Board)



NOTES:

1. **S401:** Stop switch in **"OFF"** position. (not-push condition)
2. **S402:** Speed selector switch (33 r.p.m.) in **"ON"** position. (push condition)
3. **S403:** Speed selector switch (45 r.p.m.) in **"OFF"** position. (not-push condition)
4. **S404:** Cueing switch in **"OFF"** position. (not-push condition)
5. **S405:** Pitch control switch in **"ON"** positon. (Center position)
6. **S406:** Stylus-illuminator switch in **"OFF"** position.
7. **S407:** Cueing-up detector switch in **"ON"** position. (Arm Lift–down position)
8. **S408:** Cueing-down detector switch in **"ON"** position. (Arm Lift–down position)
9. **S501:** Auto-return switch in **"ON"** position.
10. **S601:** Power switch in **"ON"** position.
11. **S701:** Muting switch in **"OFF"** position.
12. [ ] Indicated voltage values are the voltage when the arm lift is at a stop in the lowest position.
13. ( ) Indicated voltage values are the voltage when the arm lift is moving up. (The arm drive motor is rotating reversely at a high speed.)
14. [ ] Indicated voltage values are the voltage when the arm lift is moving down. (The arm drive motor is rotating in forward direction at a low speed.)
    *The drive circuit IC voltage and wave form are not indicated inside the circuit. So, refer to the Voltage and Wave Form of Each IC Terminal.
15. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
16. This schematic diagram may be modified at any time with the developent of new technology.

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.