NINTENDO VIDEO ARCADE GAME POWER SUPPLIES

Nintendo "Heli-Fire" Power Supply P.C Board "TUB 08-00 Power PCB"	**Nintendo "Space Firebird" Power Supply PCB "TST 08-00 Power PCB"**	**Nintendo "Donkey Kong" Power supply "PP-7A" & "PP-7B"**
10 pin connector to CPU	10 pin connector to Video	10 pin connector to Video
1 Brown Ground	1 Brown Ground	1 Brown –5v
2 Red Ground	2 Red Ground	2 Red –5v
3 Orange Ground	3 Orange Ground	3 Orange –5v
4 Yellow +12v	4 Yellow +12v	4 Yellow –5v
5 Green +12v	5 Green +12v	5 Green Ground
6 Blue +12v	6 Blue +12v	6 Blue Ground
7 Purple +12v	7 Purple +12v	7 Purple Ground
8 Gray +5v	8 Gray +5v	8 Gray Ground
9 White +5v	9 White +5v	9 White +5v
10 Black –5v	10 Black –5v	10 Black +5v
9 pin connector to I/O	9 pin connector to CPU	9 pin connector to CPU
1 Brown Ground	1 Brown Ground	1 Brown Ground
2 Red Ground	2 Red Ground	2 Red Ground
3 Orange Ground	3 Orange Ground	3 Orange Ground
4 Yellow +12v	4 Yellow +12v	4 Yellow +12v
5 Green +12v	5 Green +12v	5 Green +12v
6 Blue +5v	6 Blue +5v	6 Blue +5v
7 Purple +5v	7 Purple +5v	7 Purple +5v
8 Gray –5v	8 Gray –5v	8 Gray –5v
9 White +24v (meter)	9 White +24v (meter)	9 White +24v (meter)
AC power from transformer	AC power from transformer	7 pin connector to sound
Yellow 10 vac	1 Yellow 10 vac	1 Brown +16v
Yellow 10 vac	4 Yellow 10 vac	2 Red +16v
Orange 19 vac	3 Orange 19 vac	3 Orange Ground
Orange 19 vac	6 Orange 19 vac	4 Yellow Ground
Blue 9 vac	2 Blue 9 vac	5 Green +12v
Blue 9 vac	5 Blue 9 vac	6 Blue +5v
		7 Purple –5v

AC power input is 100 vac

Donkey Kong Jr. uses PP-7A
(TKGU-08-00)

Donkey Kong 3 uses PP-7B
(TKGU-18-01)
6 pin connector

1	Ground
2	Ground
3	+12v
4	+5v
5	+5v
6	–5v

Radarscope uses PP-7A

NINTENDO VIDEO ARCADE GAME POWER SUPPLIES

Nintendo "Popeye" Power Supply PP-900A

10 pin connector

1 Brown Ground
2 Red Ground
3 Orange Ground
4 Yellow Ground
5 Green Ground
6 Blue +5v
7 Purple +5v
8 Gray +5v
9 White +5v
10 Black +5v

9 pin connector

1 Brown Ground
2 Red Ground
3 Orange Ground
4 Yellow Ground
5 Green +5v
6 Blue +5v
7 Purple +5v
8 Gray +5v
9 White +24v (meter)

AC power input is 100 vac

3 pin connector

1   100vac
2   no connect
3   100vac

Note: This supply does NOT have any +12 volt or – 5 volt outputs. Trimpot VR2 adjusts the 5 volt output.

ALL NINTENDO ARCADE GAMES:

When converting a Nintendo game to JAMMA or merely replacing the original power supply with a modern switching supply you'll need to make a couple of changes if you want/need to continue to use the coin counting meter feature. First change the original 24 volt DC meter to a 12 volt DC version. Then move the wire that originally supplied +24 volts DC to the meter to the +12 volts DC terminal on your new power supply.

NINTENDO VIDEO ARCADE GAME POWER SUPPLIES

Nintendo "Punch Out" Power Supply "PP-1000A" (CHPU-88-01)

AC power input is 100 vac

<u>3 pin connector</u>

1   100vac
2   no connect
3   100vac

<u>12 pin connector</u>

1   no connect
2   no connect
3   no connect
4   no connect
5   Green Ground
6   Blue Ground
7   Purple Ground
8   Gray Ground
9   White +5v
10   Black +5v
11   no connect
12   no connect

<u>9 pin connector</u>

1   Brown Ground
2   Red Ground
3   Orange Ground
4   No connect
5   No connect
6   Blue +5v
7   Purple +5v
8   No connect
9   White +24 v (meter)

Information compiled by Ken Layton

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