

Gamesman Hopper Conversion Manual for AC & DC Models



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1. Diary of changes

Issue 1.0 - First issue.....	9 th Feb 2001
Issue 2.0	12 th Feb 2001
➤ Changes requested by Coin Inc	
➤ Add spanner / wrench	
➤ Changed c/sk to countersunk.	
➤ Changed dog point info.	
➤ Updated Table 1.	
Issue 3.0	24 th May 2001
➤ Update to Table 1.	
➤ Update to Table 2.	
➤ Fig 1a and 1b updated to include labels.	
Issue 4.0	9 th Aug 2001
➤ Updated Table 1.	
➤ Updated Table 2.	
➤ Amended last page disclaimer.	
➤ Fig 1a updated to include bridge plate details.	
Issue 5.0	24 th Oct 2001
➤ Updated Table 2.	
Issue 6.0	7 th Nov 2001
➤ Reformatted to TSP028.	
➤ Added Bridge Plate Instructions.	
➤ Fig 1 added.	
➤ Fig 1a changed to Fig 2.	
➤ Fig 1b changed to Fig 3.	
➤ Spelling mistakes corrected.	
Issue 7.0	9 th Nov 2001
➤ Contents page corrected	
Issue 8.0	9 th Jan 2002
➤ Tables 2 to 10 updated.	
➤ Fig 2 Exploded drawing copied from TSP008.	
➤ Fig 3 Exploded drawing copied from TSP008.	
➤ Money Controls logo added.	
Issue 8.1	5 th March 2002
➤ Applied TMWP V3.0	
➤ Re-numbered section 5.	
Issue 8.2	21 st March 2002
➤ Added figure references to strip down and re-build sections.	
Issue 8.5	23 rd March 2002
➤ Amended section 5 "Bridge Plate Assembly".	
Issue 9.0	14 th April 2002
➤ Amended Figure 2 (Bridge Plate numbering).	
➤ Amended Table 4 to Table 10 (highlighted Bridge Plate assembly).	
Issue 9.1	3 rd Sept 2002
➤ Modification to disclaimer	
Issue 10.0	5 th Jan 2003
➤ Manual relayed out.	
Issue 10.1	20 th Feb 2004
➤ Added 16,17 & 18 to Figure 2 .	
➤ Corrected configured numbers on Table 13 to Table 15 .	
Issue 10.2	23 rd March 2004
➤ Corrected and added the configured numbers in Table 4 to Table 15 .	
Issue 10.3	30 th June 2004
➤ Changed footers	
Issue 10.4	7 th Oct 2004
➤ Added the hopper label to the conversion kits Table 4 to Table 12 .	
➤ Removed the hopper label from the bowl units Table 13 to Table 15 .	
➤ Fixed typo's.	
Issue 11.0	25 th Jan 2005
➤ Renamed Figure 3 .	
➤ Added Figure 4 .	
➤ Corrected and removed the configured numbers in Table 4 to Table 15 .	
➤ Added Table 17 to Table 18.	
Issue 11.1	7 th Feb 2005
➤ Replaced DC hopper tables pre February 2005 with 1 table, Table 16 .	

Issue 12.0	5 th May 2005
➤ Changed the horseshoe part number in Table 12 .	
➤ Table 18 removed.	
Issue 12.1	19 th August 2005
➤ Added Appendix 1 (Fitting the Bridge Plate) and Figure 1 .	
Issue 12.2	26 th August 2005
➤ Added Table 2 and Table 3 .	
Issue 12.3	15 th November 2005
➤ Added builds 1C & 4D	
Issue 13.0	10 th January 2006
➤ Corrected the Item reference numbers in Table 4 to Table 12 .	
➤ Renamed the Table Headers in Table 13 to Table 19 .	

2. Introduction

This manual has been compiled to enable Games Manufacturers, Casinos and Service Centres to convert a Money Controls Gamesman Hopper from one denomination to another.

Reference tables have been compiled and can be found at the back of this manual, see [Table 4](#) to [Table 19](#).

The conversion kit will be packed individually. In each package will be found a checklist of parts that are in the kit. The kit should be checked against the checklist before starting a hopper conversion.

3. Equipment

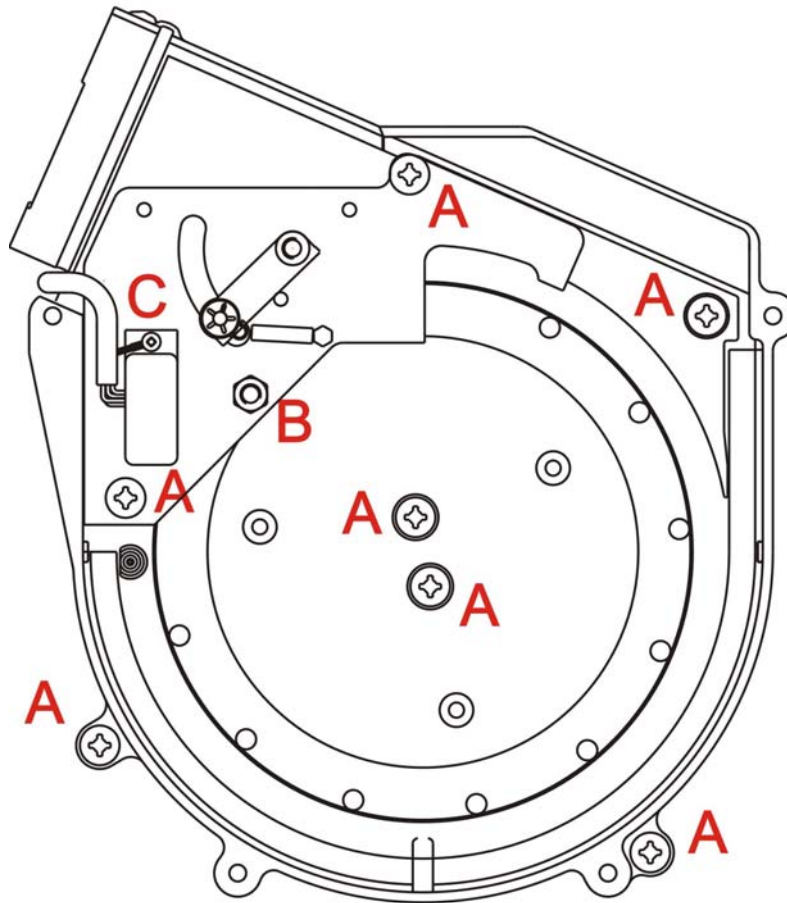
The following equipment will be required:-

- 1) Torque driver set at 4.0Nm [2.95 ft-lbs.] and fitted with a No3 Pozi head screw bit.
- 2) Torque driver set at 4.0Nm [2.95 ft-lbs.] and fitted with a No2 Pozi head screw bit.
- 3) Torque driver set at 4.0Nm [2.95 ft-lbs.] and fitted with a 10mm A/F "Across Flats" socket.
- 4) 3mm Allen Key.
- 5) 4mm Allen Key.
- 6) 10mm A/F "Across Flats" open-end spanner / wrench.

Note:- Tools not supplied by Money Controls.

Figure 1: Torque Settings

REF No	TORQUE IN N-M	TORQUE IN FT-LBS
A	4 N-M	2.95 FT-LBS
B	4 N-M	2.95 FT-LBS
C	1 N-M	0.74 FT-LBS

**NOTE:**

- 1] YOKE AND BOWL RIVETED TOGETHER
- 2] FRAMES TO BASEPLATE RIVETED
- 3] HANDLE TO FRAME RIVETED
- 4] ON HOPPERS THAT HAVE THE FRAMES BOLTED TOGETHER THEN TORQUE AS REF A

4. Conversion – Strip down

Refer to Figure 2 and Figure 3 Exploded Diagram Pages 11 and 12.

- 1) Disconnect the opto loom [Item 32 - Figure 2] from the control board.
- 2) Disconnect the motor loom [Item 33 - Figure 3].
- 3) Disconnect the level sense wires from the bowl [Item 35 - Figure 3].
- 4) Remove the top left-hand side M6 x 20 Poz Pan screw [Item 12 - Figure 2] and small metal spacer, [Item 4 - Figure 2].
- 5) Remove the top right-hand M6 x 30 Poz Pan screw, [Item 9 - Figure 2], the large metal spacer [Item 5 Figure 2] and the coloured spacer/s, [Item 3 - Figure 2]. The bowl can now be removed by lifting it off the bottom shoulder screws.
- 6) Using the 4mm Allen Key, remove the bottom right-hand M6 x 25 shoulder screws, [Item 2 - Figure 2] and coloured spacers, [Item 3 - Figure 2].
- 7) Remove the M6 x 20 Poz Pan head screw, [Item 7 - Figure 2]. Then remove the M6 x 30 Poz Pan head screw, nut and shake-proof washer, [Items 9, 21 & 22 - Figure 2]. The bridge plate unit, [Item 6 - Figure 2], can now be removed.
- 8) Take hold of the motor to keep it in position. Then remove the two M6 x 16 Poz countersunk Anu-lok screws, [Item 14 - Figure 2], from the centre of the disc unit, [Item 13 - Figure 2]. With the two screws removed the drive assembly, spring, rotary bearing and disc unit can be removed, [Items 13 - Figure 2 and 24, 25 & 26 - Figure 3].
- 9) Remove the M6 x 20 Poz countersunk screw, nut and shake-proof washer, [Items 20, 21 & 22 - Figure 2], then remove the wiper spacer, [Item 19 - Figure 2].
- 10) ^(See note 1) Remove the bottom M6 x 30 Poz pan screws, nuts and shake-proof washers, [Items 27- Figure 2 and 28 & 29 - Figure 3], holding the hopper housing to the frame unit.
- 11) ^(See note 1) Remove the three M4 Poz pan screws, 4mm plain washer and the 4mm – shake-proof washer, [Items 16, 17 & 18 - Figure 2], holding the horseshoe, [Item 15 - Figure 2], to the housing, [Item 23 - Figure 2].

Note 1:- Steps 10 and 11 are only carried out when either converting a hopper TO a build No 6, No 7 or No 8 or FROM a build No 6, No 7 or No 8.

Note 2:- Hopper build No 8 is not fitted with a Horseshoe.

Note 3:- Step 10 is omitted if conversion is being carried out on a DC Hopper.

5. Conversion – Re-build

- 1) Place horseshoe, [Item 15 - Figure 2], in the housing, [Item 23 - Figure 2] and line up the holes in the housing with the 3 x M4 tapped holes in the horseshoe. Fix the horseshoe in place with the M4 screw, 4mm plain washer and the 4mm shake-proof washer, [Items 16, 17 & 18 - Figure 2]
- 2) Take the wiper spacer, [Item 19 - Figure 2], from the kit and with the M6 x 20 Poz countersunk screw [Item 20, 21 & 22 - Figure 2] fit the wiper to the housing, [Item 23 - Figure 2]. At this stage leave the screw only hand tight so the bridge plate, [Item 6 - Figure 2], can be easily fitted.
- 3) Take the rotary bearing, spring and drive assembly previously removed, [Items 24, 25 & 26 - Figure 3] and locate the pin on the rotary bearing into the small hole in the housing. With the spring mounted on to the drive bush, locate the drive assembly into the rotary bearing.
- 4) Holding the drive assembly in place, place the disc unit, [Item 13 - Figure 2], from the kit onto the locating pip on the end of the drive bush. Using the two M6 x 16 Poz countersunk Anu-lok screws, [Item 14 - Figure 2], from the kit, fix the disc to the drive bush.

Step 5 is omitted if conversion is carried out to a DC hopper.

- 5) Fit the housing unit, [Item 23 - Figure 2], to the frame unit, [Item 30 - Figure 3], with the 2 x M30 Poz pan head screws, nuts and shake-proof washers, [Items 27 - Figure 2 and 28 & 29 - Figure 3].
- 6) Take the bridge plate unit, [Item 6 - Figure 2], from the kit. Position the bridge plate unit on the housing so that the two 6.2mm mounting holes line up with the two mounting holes in the housing. Fix the bridge plate unit to the housing using the M6 x 20 Poz pan head screw and 6mm shake-proof washer, [Items 21 & 22 - Figure 2], in the top right-hand hole and the M6 x 30 Poz Pan screw, nut and washer [Item 9 - Figure 2 and 28 & 29 Figure 3], in the bottom left-hand fixing hole. **SEE [Appendix 1 \(Fitting the Bridge Plate\)](#).**

Note:- If converting to a build No 6, No 7 or No 8 then the M6 x 35 Poz countersunk screw [Item 36 - Figure 2] and filler piece extension [Item 37 - Figure 2] is fitted at this point.

- 7) Set the “Dog Point” – See Setting the “Dog Point” section 6
- 8) All the M6 poz head screws should now be tightened to 4Nm [2.95 ft-lbs].
- 9) Fit the bottom right hand shoulder screw, [Item 2 - Figure 2] and colour spacer, [Item 3 - Figure 2], to the housing.
[Refer to the chart with the kit for the correct spacers for the denomination required].
- 10) Fit Bowl Unit [Item 1 - Figure 2] onto the two bottom shoulder screws. Ensure the colour spacers are in the correct position. Secure the bowl in position by fitting the top right-hand M6 x 30 Poz Pan screw, metal spacer and colour spacer, [Items 30, 5 & 3 - Figure 2] then the top left-hand M6 x 20 Poz Pan screw and small metal spacer, [Items 12 & 4 - Figure 2].
[Refer to chart with the kit for correct spacers for the denomination required].
- 11) Fit the label showing the colour spacer layout to the bowl. [Item 38].
- 12) Reconnect level sense wires to bowl. [Item 35].
- 13) Reconnect the plug on the Motor loom to the socket on the loom fitted to the control board.
- 14) Reconnect the opto loom to the control board. [Item 32].
- 15) Fit the new identification label from the kit to the hopper. [Item 39].
- 16) Test the hopper.

6. Setting the “Dog Point”

Please refer to [Figure 2](#).

- 1) Screw the dog point screw, [Item 10] into the M6 tapped hole in the bridge plate, with the dog point end towards the disc, until it is finger tight.
- 2) Fit the 6mm shake-proof washer, [Item 8], onto the dog point. Screw the M6 nut, [Item 11], onto the dog point screw. Secure the dog point screw to the bridge plate by placing the 10mm socket onto the M6 nut and tighten to 4Nm [2.95 ft-lbs].
- 3) Taking the 10mm spanner / wrench and the 3mm Allen key, hold the nut with the spanner / wrench and with the Allen Key in the dog point, turn the dog point anti-clockwise half a turn.
- 4) Check that the disc can turn without being obstructed by the pin.

7. Exploded Drawings

Figure 2: Exploded Drawing – Bowl and disk assembly

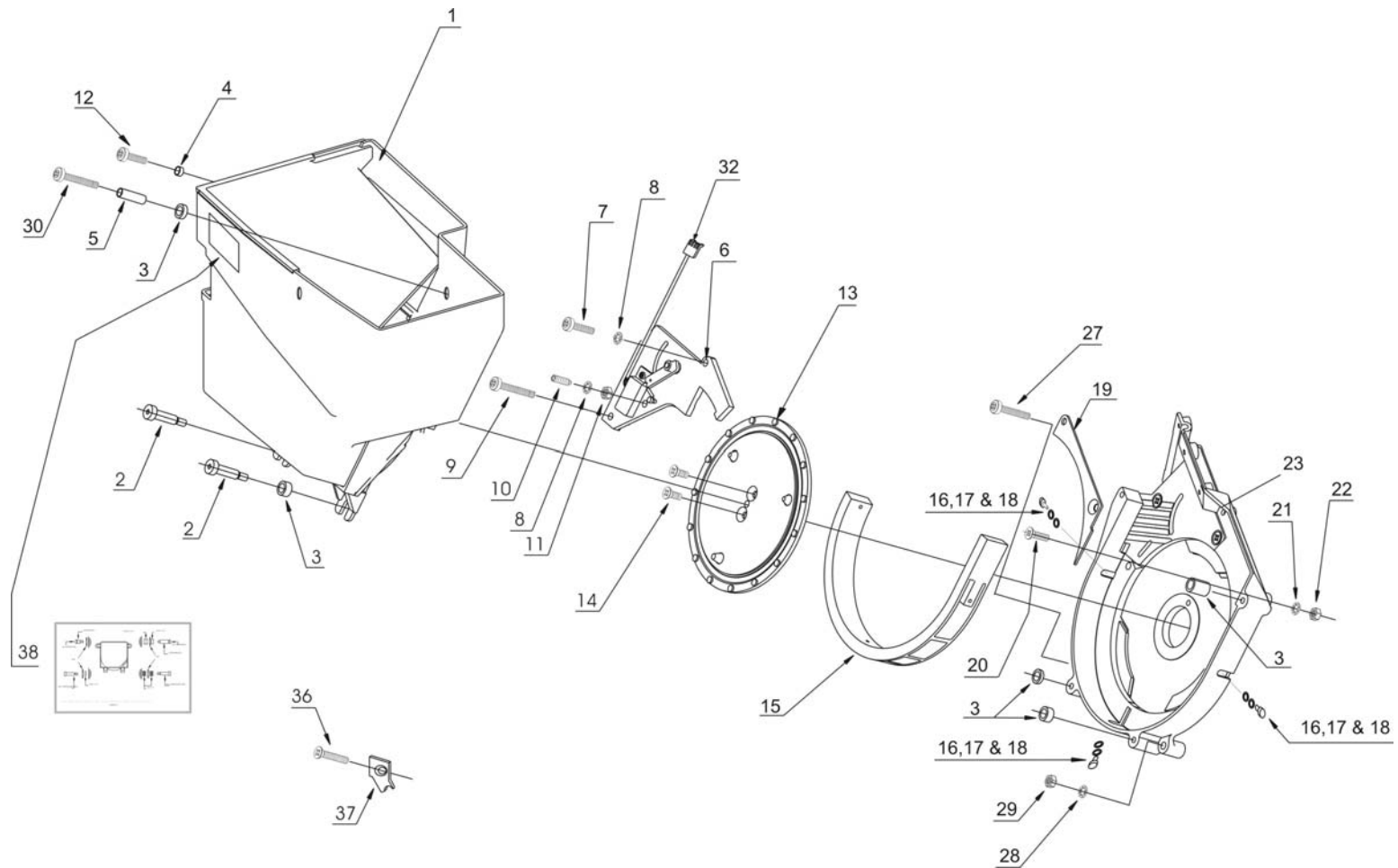


Figure 3: Exploded Drawing – AC Motor, frame and base assembly

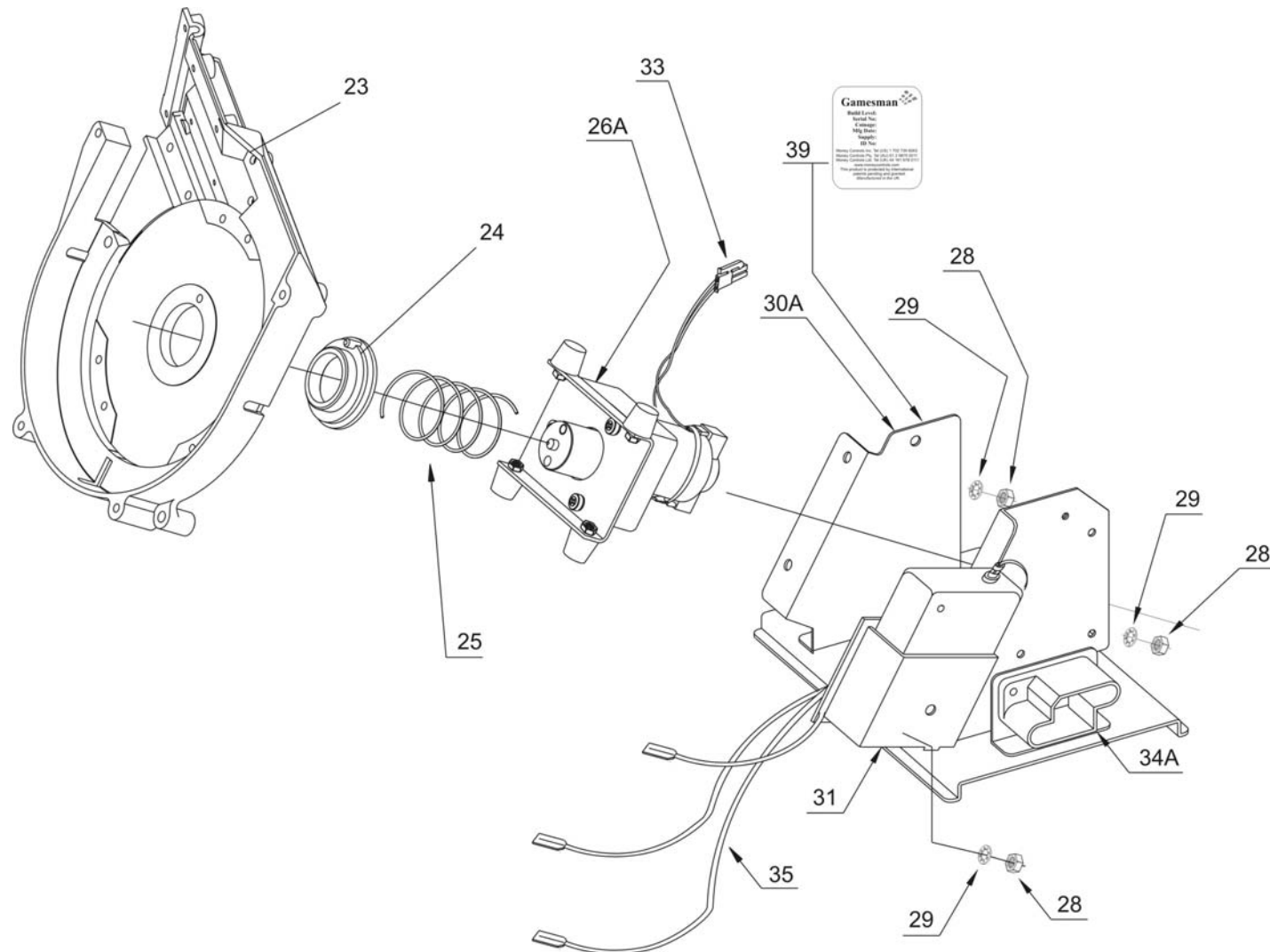


Figure 4: Exploded Drawing – DC Motor, frame and base assembly

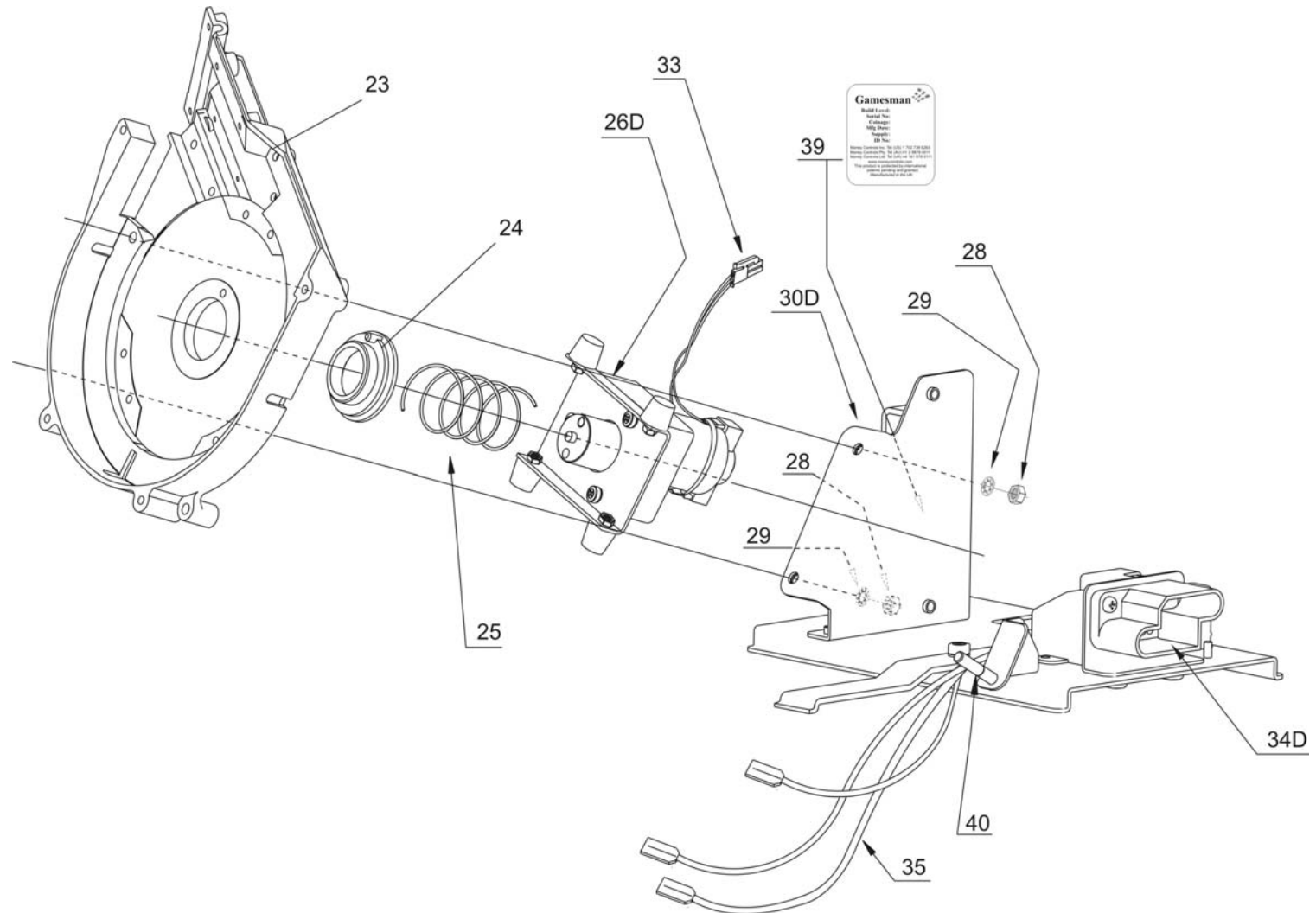


Table 1: Exploded diagram parts and description.**Part List ref. TSP011** Figure 2, Figure 3 and Figure 4.

Item No	Description		Comments
1	Bowl Unit		
2	M6 x 25 Shoulder Screw	SGPGMGXX00145	
3	Yoke Colour Spacers		
4	Metal Spacer 1	SGPGMGXX00209	
5	Metal Spacer 2	SGPGMGXX00210	
6	Bridge Plate Unit		
7	M6 x 20 Pozi Pan Screw	SGPGMGXX00191	
8	6mm Shakeproof Washer	SGPGMGXX00185	
9	M6 x 30 Pozi Pan Screw	SGPGMGXX00179	
10	M6 x 16 Dog Point Screw	SGPGMGXX00192	
11	M6 Nut	SGPGMGXX00184	
12	M6 x 20 Pozi Pan Screw	SGPGMGXX00191	
13	Disc Unit		
14	M6 x 16 poz c/sk Anu-Loc Screw	SGPGMGXX00204	
15	Horseshoe		
16	M4 Pozi Pan Screw	SGPGMGXX00197	
17	4mm Washer	SGPGMGXX00198	
18	4mm Shakeproof Washer	SGPGMGXX00199	
19	Wiper Spacer		
20	M6 x 20 Pozi c/sk Screw	SGPGMGXX00208	
21	6mm Shakeproof Washer	SGPGMGXX00185	
22	M6 Hex Nut	SGPGMGXX00184	
23	Housing Unit	SGPGMGXX00087	
24	Rotary Bearing	SGPGMGXX00200	
25	Spring	SGPGMGXX00201	
26A	Drive Assembly AC Hopper	SGPGMGXX00211	
26D	Drive Assembly DC Hopper	SGPGMGXX00010	
27	M6 x 30 Pozi Pan Screw	SGPGMGXX00187	
28	M6 Hex Nut	SGPGMGXX00184	
29	6mm Shakeproof Washer	SGPGMGXX00185	
30A	Frame Assembly AC Hopper	SGPGMGXX00202	
30D	Frame Assembly DC Hopper	SGPGMGXX00212	
31	PSU unit	SGPGMGXX00205	Fitted to AC hoppers only
32	Opto Loom	SGPGMGXX00148	Supplied with Bridge Plate unit
33	Motor Loom		Supplied with Drive Assembly
34A	Main Harness AC Hopper	GP2SPSXX00009	
34D	Main Harness DC Hopper	SGPGMGXX00173	Fitted to Frame Unit
35	Level Sense Loom		Part of Main Harness
36	M6 x 35 Pozi c/sk Screw	SGPGMGXX00077	
37	Filler Pieces Extension	SGPGMGXX00078	
38	Yoke Colour Spacer Layout Label		
39	Identification Label	SGPGMGXX00207	

8. Gamesman and Paytrak Build Numbers and coin range

Table 2: Build Numbers - Range of Coin Diameters

Hopper Build No	Diameter Range in mm	Diameter Range in ins
No 1	20 to 22	0.7874 to 0.8661
No 2	22 to 25	0.8661 to 0.9843
No 3	25 to 28	0.9843 to 1.1024
No 4	28 to 31	1.1024 to 1.2205
No 5	31 to 34	1.2205 to 1.3386
No 6	34 to 38	1.3386 to 1.4961
No 7	38 to 42	1.4961 to 1.6535
No 8	42 to 45	1.6535 to 1.7717
No 9	18 to 20	0.7086 to 0.7874
No 10	16 to 18	0.6299 to 0.7086

Table 3: Build Numbers - Range of Coin Thickness

Coin Thickness No	Coin Thickness in mm	Coin Thickness in ins
A	1.0 to 1.5	0.0394 to 0.0591
B	1.6 to 2.0	0.0630 to 0.0787
C	2.1 to 2.5	0.0827 to 0.0984
D	2.6 to 3.0	0.1024 to 0.1181
E	3.1 to 3.5	0.1221 to 0.1378
F	3.6 to 4.0	0.1417 to 0.1575

Example showing how to determine which build a particular coin/token would fit in.

Example: **5 cent US coin.**

Diameter = 21.18

Coin thickness = 1.9

1] Check which number in table 1 the diameter of the coin will fit.
For the above coin = No1

2] Check which letter from table 2 does the thickness of the coin fit.
For the above coin = B

3] The Hopper Build No for the above coin = No1B

4] Coin will need to be checked and qualified in a hopper.

Table 4: Build No1 Conversion parts list.

Common Parts for AC & DC Hoppers

			Build No1					
			A		B		C	
			Kit No 1A		Kit No 1B		Kit No 1C	
Item No		Configured No	GX205N1A00001		GX205N1B00001		GX205N1C00001	
		Production Test Coin	1 Rouble		5c Coin [US]		No Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3432	SGPGMGXX00047	SUB/3551	SGPGMGXX00052	SUB/3433	SGPGMGXX00048
19		Wiper Spacer [1]	MER/042	SGPGMGXX00093	MMC/095	SGPGMGXX00071	MER/043	SGPGMGXX00157
19		Wiper Spacer [2]	N/A		N/A		MER/043	SGPGMGXX00157
19		Wiper Spacer [3]	N/A		N/A		N/A	
13		Disc Unit	SUB/4373	SGPGMGXX00138	SUB/4373	SGPGMGXX00138	SUB/4914	SGPGMGXX00180
15		Horseshoe	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

			Build No1					
			D		E		F	
Description			Kit No 1D		Kit No 1E		Kit No 1F	
Item No		Configured No	GX205N1D00001		GX205N1E00001		GX205N1F00001	
		Production Test Coin	10 Kr Coin [Sweden]		No Coin		No Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3434	SGPGMG;XX00050				
19		Wiper Spacer [1]	MER/042	SGPGMG;XX00093				
19		Wiper Spacer [2]	MER/043	SGPGMG;XX00157				
19		Wiper Spacer [3]	N/A					
13		Disc Unit	SUB/4914	SGPGMG;XX00180				
15		Horseshoe	MER/021	SGPGMG;XX00021				
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMG;XX00179				
39		Hopper Label	TPL/032	SGPGMG;XX00207				

Table 5: Build No2 Conversion parts list.

Common Parts for AC & DC Hoppers

			Build No2					
			A		B		C	
Description			Kit No 2A		Kit No 2B		Kit No 2C	
Item No		Configured No	GX205N2A00001		GX205N2B00001		GX205N2C00001	
		Production Test Coin	25c Coin [Canada]		25c Coin [US]		€ 1.00 Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3437	SGPGMGXX00051	SUB/3552	SGPGMGXX00046	SUB/3438	SGPGMGXX00053
19		Wiper Spacer [1]	MER/042	SGPGMGXX00093	MMC/095	SGPGMGXX00071	MER/043	SGPGMGXX00157
19		Wiper Spacer [2]	N/A		N/A		MER/043	SGPGMGXX00157
19		Wiper Spacer [3]	N/A		N/A		N/A	
13		Disc Unit	SUB/2581	SGPGMGXX00011	SUB/2581	SGPGMGXX00011	SUB/2580	SGPGMGXX00041
15		Horseshoe	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

			Build No2					
			D		E		F	
Description			Kit No 2D		Kit No 2E		Kit No 2F	
Item No		Configured No	GX205N2D00001		GX205N2E00001		GX205N2F00001	
		Production Test Coin	1 Ringitt [Malaysia]		50 Esc Coin		No Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3439	SGPGMG:XX00054	SUB/3440	SGPGMGXX00098		
19		Wiper Spacer [1]	MER/042	SGPGMG:XX00093	MER/042	SGPGMGXX00093		
19		Wiper Spacer [2]	MER/043	SGPGMG:XX00157	MER/042	SGPGMGXX00093		
19		Wiper Spacer [3]	N/A		N/A			
13		Disc Unit	SUB/2580	SGPGMG:XX00041	SUB/3444	SGPGMGXX00122		
15		Horseshoe	MER/021	SGPGMG:XX00021	MER/021	SGPGMGXX00021		
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMG:XX00179	HSC/369	SGPGMGXX00179		
39		Hopper Label	TPL/032	SGPGMG:XX00207	TPL/032	SGPGMG:XX00207		

Table 6: Build No3 Conversion parts list.

Common Parts for AC & DC Hoppers

			Build No3					
			A		B		C	
			Kit No 3A		Kit No 3B		Kit No 3C	
Item No		Description	GX205N3A00001		GX205N3B00001		GX205N3C00001	
		Production Test Coin	WMS Token 0.983 x 0.062		\$2 Coin [Canada]		€ 2.00 Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3446	SGPGMG;XX00055	SUB/3555	SGPGMG;XX00056	SUB/3447	SGPGMGXX00057
19		Wiper Spacer [1]	MER/042	SGPGMG;XX00093	MMC/095	SGPGMG;XX00071	MER/043	SGPGMGXX00157
19		Wiper Spacer [2]	N/A		N/A		MER/043	SGPGMGXX00157
19		Wiper Spacer [3]	N/A		N/A		N/A	
13		Disc Unit	SUB/3119	SGPGMG;XX00124	SUB/3119	SGPGMG;XX00124	SUB/3121	SGPGMGXX00123
15		Horseshoe	MER/021	SGPGMG;XX00021	MER/021	SGPGMG;XX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMG;XX00179	HSC/369	SGPGMG;XX00179	HSC/369	SGPGMGXX00179
39		Hopper Label	TPL/032	SGPGMG;XX00207	TPL/032	SGPGMG;XX00207	TPL/032	SGPGMGXX00207

			Build No3					
			D		E		F	
Description			Kit No 3D		Kit No 3E		Kit No 3F	
Item No		Configured No	GX205N3D00001		GX205N3E00001		GX205N3F00001	
		Production Test Coin	WMS Token ref 20-005618-468		\$5 Coin [Hong Kong]		No Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3448	SGPGMG:XX00058	SUB/3449	SGPGMGXX00100	SUB/3450	SGPGMGXX00101
19		Wiper Spacer [1]	MER/042	SGPGMG:XX00093	MER/042	SGPGMGXX00093	MER/042	SGPGMGXX00093
19		Wiper Spacer [2]	MER/043	SGPGMG:XX00157	MER/042	SGPGMGXX00093	MER/042	SGPGMGXX00093
19		Wiper Spacer [3]	N/A		N/A		MER/043	SGPGMGXX00157
13		Disc Unit	SUB/3121	SGPGMG:XX00123	SUB/3451	SGPGMGXX00125	SUB/3451	SGPGMGXX00125
15		Horseshoe	MER/021	SGPGMG:XX00021	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMG:XX00179	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label	TPL/032	SGPGMG:XX00207	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

Table 7: Build No4 Conversion parts list.

Common Parts for AC & DC Hoppers

			Build No4					
			A		B		C	
			Kit No 4A		Kit No 4B		Kit No 4C	
Item No		Description	GX205N4A00001		GX205N4B00001		GX205N4C00001	
		Configured No	No Coin		5Kr Coin [Sweden]		50c Coin [US]	
		Production Test Coin	Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit			SUB/3454	SGPGMGXX00060	SUB/3562	SGPGMGXX00061
19		Wiper Spacer [1]			MMC/095	SGPGMGXX00071	MER/043	SGPGMGXX00157
19		Wiper Spacer [2]			N/A		MER/043	SGPGMGXX00157
19		Wiper Spacer [3]			N/A		N/A	
13		Disc Unit			SUB/3458	SGPGMGXX00044	SUB/3563	SGPGMGXX00045
15		Horseshoe			MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw			HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label			TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

			Build No4					
			D		E		F	
Description			Kit No 4D		Kit No 4E		Kit No 4F	
Item No		Configured No	GX205N4D00001		GX205N4E00001		GX205N4F00001	
		Production Test Coin	No Coin		No Coin		No Coin	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3455	SGPGMGXX00102				
19		Wiper Spacer [1]	MER/042	SGPGMGXX00093				
19		Wiper Spacer [2]	MER/043	SGPGMGXX00157				
19		Wiper Spacer [3]	N/A					
13		Disc Unit	SUB/3563	SGPGMGXX00045				
15		Horseshoe	MER/021	SGPGMGXX00021				
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMGXX00179				
39		Hopper Label	TPL/032	SGPGMGXX00207				

Table 8: Build No5 Conversion parts list.

Common Parts for AC & DC Hoppers

		Build No5					
		A		B		C	
		Kit No 5A		Kit No 5B		Kit No 5C	
Item No		Configured No		GX205N5A00001		GX205N5B00001	
		Production Test Coin		No Coin		50c Tkn	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit		SUB/3475	SGPGMGXX00064	SUB/3559	SGPGMGXX00083
19		Wiper Spacer [1]		MMC/122	SGPGMGXX00074	MER/045	SGPGMGXX00072
19		Wiper Spacer [2]		N/A		MER/045	SGPGMGXX00072
19		Wiper Spacer [3]		N/A		N/A	
13		Disc Unit		SUB/3560	SGPGMGXX00049	SUB/3173	SGPGMGXX00128
15		Horseshoe		MER/013	SGPGMGXX00031	MER/013	SGPGMGXX00031
9		M6 x 35 Poz Pan Screw		HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label		TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

		Build No5					
		D		E		F	
		Kit No 5D		Kit No 5E		Kit No 5F	
Item No		Configured No		GX205N5D00001		GX205N5E00001	
		Production Test Coin		5 Bol Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3471	SGPGMGXX00106			
19		Wiper Spacer [1]	MER/044	SGPGMGXX00073			
19		Wiper Spacer [2]	MER/045	SGPGMGXX00072			
19		Wiper Spacer [3]	N/A				
13		Disc Unit	SUB/3173	SGPGMGXX00128			
15		Horseshoe	MER/013	SGPGMGXX00031			
9		M6 x 35 Poz Pan Screw	HSC/369	SGPGMGXX00179			
39		Hopper Label	TPL/032	SGPGMGXX00207			

Table 9: Build No6 Conversion parts list.

Common Parts for AC & DC Hoppers

		Build No6					
		A		B		C	
		Kit No 6A		Kit No 6B		Kit No 6C	
Item No		Configured No		GX205N6A00001		GX205N6B00001	
		Production Test Coin		No Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit				SUB/3557	SGPGMGXX00084
19		Wiper Spacer [1]				MER/045	SGPGMGXX00072
19		Wiper Spacer [2]				MER/045	SGPGMGXX00072
19		Wiper Spacer [3]				N/A	
13		Disc Unit				SUB/3191	SGPGMGXX00040
15		Horseshoe				MER/013	SGPGMGXX00031
9		M6x35 Poz c/sk Screw				HSC/718	SGPGMGXX00077
37		Filler Pieces Extension				MER/169	SGPGMGXX00078
39		Hopper Label				TPL/032	SGPGMGXX00207

		Build No6					
		D		E		F	
		Kit No 6D		Kit No 6E		Kit No 6F	
Item No		Configured No		GX205N6D00001		GX205N6E00001	
		Production Test Coin		\$1 Tkn		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3488	SGPGMGXX00082			
19		Wiper Spacer [1]	MER/044	SGPGMGXX00073			
19		Wiper Spacer [2]	MER/045	SGPGMGXX00072			
19		Wiper Spacer [3]	N/A				
13		Disc Unit	SUB/2579	SGPGMGXX00013			
15		Horseshoe	MER/013	SGPGMGXX00031			
9		M6x35 Poz c/sk Screw	HSC/718	SGPGMGXX00077			
37		Filler Pieces Extension	MER/169	SGPGMGXX00078			
39		Hopper Label	TPL/032	SGPGMGXX00207			

Table 10: Build No7 Conversion parts list.

Common Parts for AC & DC Hoppers

		Build No7					
		A		B		C	
		Kit No 7A		Kit No 7B		Kit No 7C	
Item No		Configured No		GX205N7A00001		GX205N7B00001	
		Production Test Coin		No Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6							
19							
19							
19							
13							
15							
9							
37							
39							

		Build No7					
		D		E		F	
		Kit No 7D		Kit No 7E		Kit No 7F	
Item No		Configured No		GX205N7D00001		GX205N7E00001	
		Production Test Coin		No Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6							
19							
19							
19							
13							
15							
9							
37							
39							

Table 11: Build No8 Conversion parts list.

Common Parts for AC & DC Hoppers

		Build No8					
		A		B		C	
		Kit No 8A		Kit No 8B		Kit No 8C	
Item No		Configured No		GX205N8A00001		GX205N8B00001	
		Production Test Coin		No Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit					
19		Wiper Spacer [1]					
19		Wiper Spacer [2]					
19		Wiper Spacer [3]					
13		Disc Unit					
15		Horseshoe					
9		M3x35 Pozzi c/sk Screw					
37		Filler Pieces Extension					
39		Hopper Label					

		Build No8					
		D		E		F	
		Kit No 8D		Kit No 8E		Kit No 8F	
Item No		Configured No		GX205N8D00001		GX205N8E00001	
		Production Test Coin		No Coin		No Coin	
		Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit					
19		Wiper Spacer [1]					
19		Wiper Spacer [2]					
19		Wiper Spacer [3]					
13		Disc Unit					
15		Horseshoe					
9		M3x35 Pozzi c/sk Screw					
37		Filler Pieces Extension					
39		Hopper Label					

Table 12: Build No9 Conversion parts list.

Common Parts for AC & DC Hoppers

			Build No9					
			A		B		C	
Description			Kit No 9A		Kit No 9B		Kit No 9C	
Item No		Configured No	GX205N9A00001		GX205N9B00001		GX205N9C00001	
		Production Test Coin	10c Coin [US]		1 Euro Cent		25 Peseta	
			Part No	Config No	Part No	Config No	Part No	Config No
6		Bridge Plate Unit	SUB/3931	SGPGMGXX00117	SUB/3932	SGPGMGXX00118	SUB/3933	SGPGMGXX00119
19		Wiper Spacer [1]	MER/042	SGPGMGXX00093	MMC/095	SGPGMGXX00071	MER/043	SGPGMGXX00157
19		Wiper Spacer [2]	N/A		N/A		MER/043	SGPGMGXX00157
19		Wiper Spacer [3]	N/A		N/A		N/A	
13		Disc Unit	SUB/3935	SGPGMGXX00178	SUB/3935	SGPGMGXX00178	SUB/3936	SGPGMGXX00134
15		Horseshoe	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021	MER/021	SGPGMGXX00021
9		M6 x 35 Pozi Pan Screw	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179	HSC/369	SGPGMGXX00179
39		Hopper Label	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207	TPL/032	SGPGMGXX00207

Table 13: Bowl unit K1 – AC Parts

Bowl Unit for AC Hoppers

Bowl Unit K1 – AC **Configured No.** **SGPGMGXX00162** **SUB/4970**

	Item No	Description	Bowl Unit 1 AC	Config No.
	1	Bowl Unit	SUB/3550	SGPGMGXX00027
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 4	PBL/1004	SGPGMGXX00016
	3	Yoke Spacer 6	PBL/1006	SGPGMGXX00017
	3	Yoke Spacer 10	PBL/1010	SGPGMGXX00019
	38	Yoke Spacer Label	LAB/384	SGPGMGXX00079

Bowl Unit K1 – AC used on the following builds

	Build No
1	1A to 1F
2	2A to 2F
3	3A to 3F
4	4A to 4F

Table 14: Bowl unit K2 – AC Parts

Bowl Unit for AC Hoppers

Bowl Unit K2 - AC **Configured No.** **SGPGMGXX00163** **SUB/4971**

	Item No	Description	Bowl Unit 2 - AC	Config No.
	1	Bowl Unit	SUB/3550	SGPGMGXX00027
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 1	PBL/1001	SGPGMGXX00091
	3	Yoke Spacer 6	PBL/1006	SGPGMGXX00017
	3	Yoke Spacer 8	PBL/1008	SGPGMGXX00034
	38	Yoke Spacer 11	PBL/1011	SGPGMGXX00092
	Item No	Yoke Spacer Label	LAB/383	SGPGMGXX00085

Bowl Unit K2 - AC used on the following builds

	Build No
1	5A to 5F

*Table 15: Bowl unit K3 – AC Parts***Bowl Unit for AC Hoppers**

Bowl Unit K3 - AC **Configured No.** **SGPGMGXX00164** **SUB/4972**

	Item No	Description	Bowl Unit 3 AC	Config No.
	1	Bowl Unit	SUB/3564	SGPGMGXX00030
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 8	PBL/1008	SGPGMGXX00034
	3	Yoke Spacer 12	PBL/1012	SGPGMGXX00020
	38	Yoke Spacer Label	LAB/382	SGPGMGXX00080

Bowl Unit K 3 - AC used on the following builds

	Build No
1	6A to 6F

The following kits are for hoppers built BEFORE 1st February 2005

For hoppers built before 1st February 2005 that are being converted the bowl assembly must be replaced. See Part # below

Note :- The hopper label will have the following information on it :-

M.C. Build No - GM205D - ## and the I.D. No - WMS A - 009407 - ##

M.C. Build No - GM205D - ## - 2 and the I.D. No - WMS A - 011953 - ##

Table 16: Bowl Assembly – DC Parts (Pre 2005)

Item No	Drawing Ref No	Description	Bowl Kit 1 DC	Config No.
1		Bowl Assembly	SUB/5397	SGPGMGXX00314

The following kits are for hoppers built AFTER 1st February 2005

Note :- The hopper label will have the following information on it :-

M.C. Build No - GM205D - ## - 3 and the I.D. No - WMS A - 013859 - ##

Table 17: Bowl unit K1 – DC Parts (2005 -)

Bowl Unit for DC Hoppers

Bowl Unit K1 – DC **Configured No.** **SGPGMGXX00304** **SUB/5391**

	Item No	Description	Bowl Unit 1 DC	Config No.
		Regulator	MER/057	SGPGMGXX00224
		Baffle	MER/328	SGPGMGXX00308
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 4	PBL/1004	SGPGMGXX00016
	3	Yoke Spacer 6	PBL/1006	SGPGMGXX00017
	3	Yoke Spacer 10	PBL/1010	SGPGMGXX00019
	38	Yoke Spacer Label	LAB/384	SGPGMGXX00079

Bowl Unit K1 - DC used on the following builds

	Build No
1	1A to 1F
2	2A to 2F
3	3A to 3F
4	4A to 4F
1	9A to 9C

Table 18: Bowl unit K2 – DC Parts (2005 -)

Bowl Unit for DC Hoppers

Bowl Unit K2 - DC **Configured No.** **SGPGMGXX00305** **SUB/5392**

	Item No	Description	Bowl Unit 2 - DC	Config No.
		Regulator	MER/060	SGPGMGXX00252
		Baffle	MER/329	SGPGMGXX00309
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 1	PBL/1001	SGPGMGXX00091
	3	Yoke Spacer 6	PBL/1006	SGPGMGXX00017
	3	Yoke Spacer 8	PBL/1008	SGPGMGXX00034
	3	Yoke Spacer 11	PBL/1011	SGPGMGXX00092
	38	Yoke Spacer Label	LAB/383	SGPGMGXX00085

Bowl Unit K2 - DC used on the following builds

	Build No
1	5A to 5F

Table 19: Bowl unit K3 – DC Parts (2005 -)

Bowl Unit for DC Hoppers**Bowl Unit K3 - DC****Configured No.****SGPGMGXX00306****SUB/5393**

	Item No	Description	Bowl Unit 3 DC	Config No.
		Regulator	MER/060	SGPGMGXX00252
		Baffle	MER/329	SGPGMGXX00309
	3	Yoke Spacer	PBL/108	SGPGMGXX00018
	3	Yoke Spacer 8	PBL/1008	SGPGMGXX00034
	3	Yoke Spacer 12	PBL/1012	SGPGMGXX00020
	38	Yoke Spacer Label	LAB/382	SGPGMGXX00080

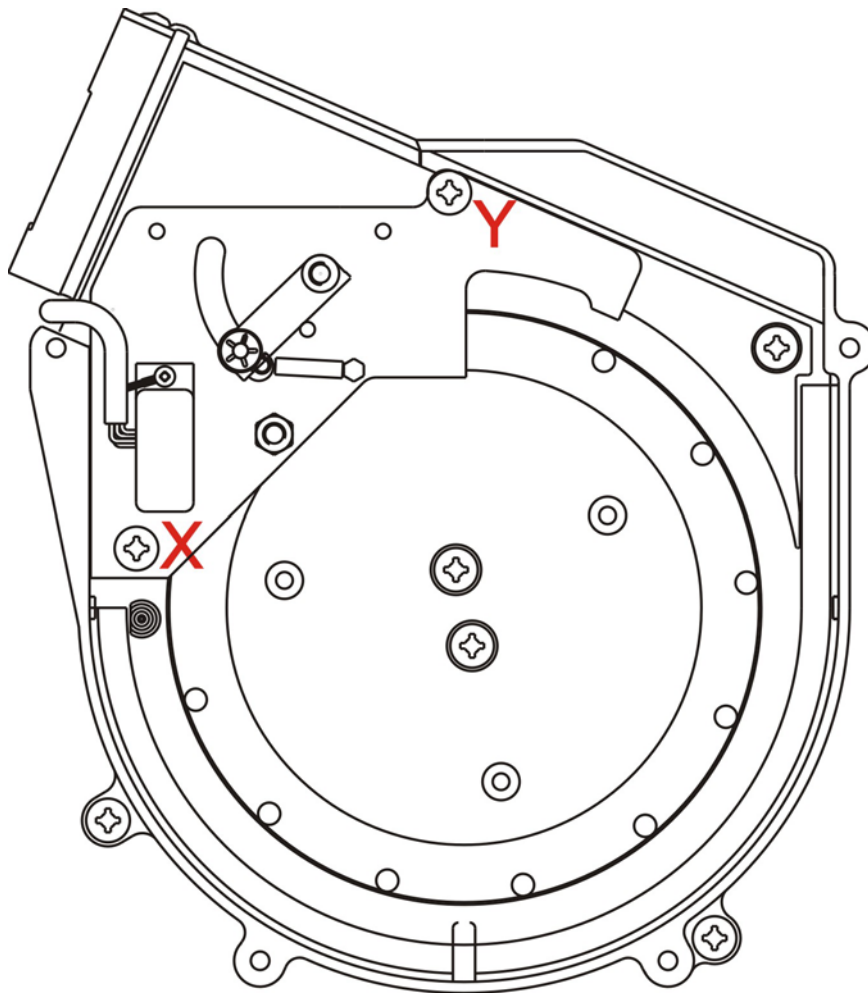
Bowl Unit K3 - DC used on the following builds

	Build No
1	6A to 6F

Appendix 1 (Fitting the Bridge Plate).

1. When fitting the Bridge plate to the housing, insert screws X & Y and HAND TIGHTEN.
2. Tighten the BOTTOM screw X to the torque settings shown in [Figure 1: Torque Settings](#).
3. Tighten the TOP screw Y to the torque settings shown in [Figure 1: Torque Settings](#).

Failure to follow the above steps may result in incorrect operation.



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