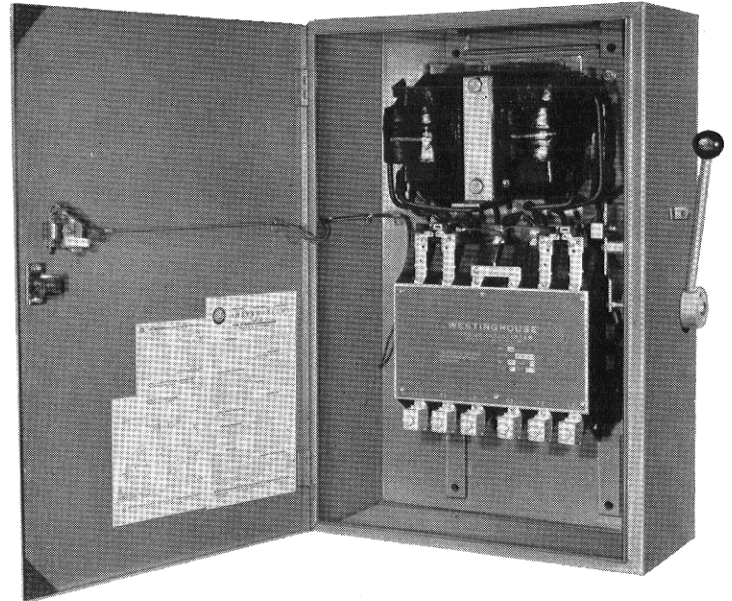


Westinghouse

**Type JF Auto-starters**220 to 550 Volts, Two and
Three Phase, Frame 4, 5, 5L**Ordering Information**

- Name the part and give its style number.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.



Horse- Power	Volts	Hertz	Style Number							
			Two Phase				Three Phase			
			Auto-Starter Complete	Switch Cover	Auto- Transformer	Solenoid	Auto-Starter Complete	Switch Cover	Auto- Transformer	Solenoid
Frame 4										
40/50	220	60	550D412G27	416C164H01	1747 006	416C160G03	550D413G38	416C164H11	1747 007	416C160G03
60/100	440	60	550D412G28	416C164H02	553D123G48	416C160G05	550D413G39	416C164H12	553D123G48	416C160G05
60/100	550	60	550D412G29	416C164H03	553D123G57	416C160G07	550D413G40	416C164H13	553D123G57	416C160G07
40/50	220	50	.....	.....	.....	.....	550D413G41	416C164H14	1747 012	416C160G16
60/100	380	50	550D412G30	416C164H04	553D123G48	416C160G17	550D413G42	416C164H15	553D123G48	416C160G17
60/100	440	50	.....	.....	.....	.....	550D413G43	416C164H16	553D123G57	416C160G19
60/100	550	50	.....	.....	.....	.....	550D413G44	416C164H17	553D123G54	416C160G20
40/50	220	25	550D412G31	416C164H05	553D123G33	416C160G28	550D413G45	416C164H18	553D123G33	416C160G28
60/100	440	25	550D412G32	416C164H06	553D124G42	416C160G29	550D413G46	416C164H19	553D124G42	416C160G29
60/100	550	25	550D412G33	416C164H07	553D124G51	416C160G30	550D413G47	416C164H20	553D124G51	416C160G30

Frame 5

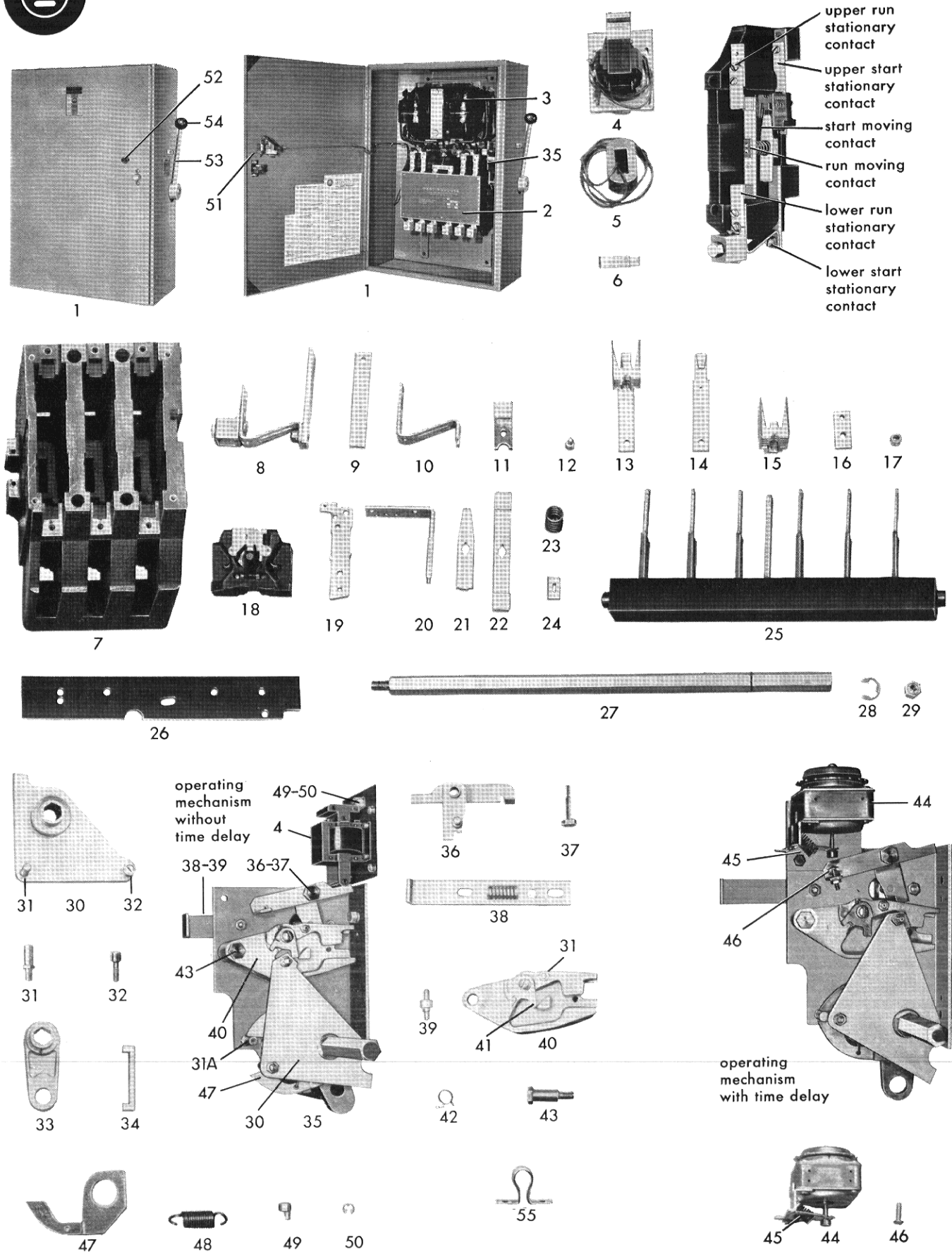
60/75	220	60	550D412G37	416C164H24	553D123G39	416C160G03	550D413G51	416C164H32	553D123G39	416C160G03
125/150	440	60	550D412G38	416C164H25	553D124G48	416C160G05	550D413G52	416C164H33	553D124G48	416C160G05
125/150	550	60	550D412G39	416C164H26	553D124G57	416C160G07	550D413G53	416C164H34	553D124G57	416C160G07
60/75	220	50	.....	.....	.....	.....	550D413G54	416C164H35	553D123G36	416C160G16
125/150	380	50	550D412G40	416C164H27	553D124G33	416C160G17	550D413G55	416C164H36	553D124G33	416C160G17
125/150	440	50	.....	.....	.....	.....	550D413G56	416C164H37	553D124G57	416C160G19
125/150	550	50	.....	.....	.....	.....	550D413G57	416C164H38	553D124G54	416C160G20
60/75	220	25	550D412G41	416C164H28	553D124G33	416C160G28	550D413G58	416C164H39	553D124G33	416C160G28

See page 4 for frame 5L

July, 1969

Supersedes RPD 10-600B2, dated December 1957
E, D, C/2738

Westinghouse



Type JF Auto-starters

Ref. No.	Description of Part	Style Number		No. Used
		Frames 4&5	Frame 5L	
1	Auto-starter (without relay heaters)	See Page 1, 4	See Page 1, 4	1
2	Switchcover	See Page 1, 4	See Page 1, 4	1
3	Auto-transformer	See Page 1, 4	See Page 1, 4	1
4	Solenoid	See Page 1, 4	See Page 1, 4	1
5	Solenoid Coil	See Below	See Below	1
6	Solenoid plunger guide	197A758H01	197A758H01	2
①	Roll pin (½ x 1¼)	Std Hdwe	Std Hdwe	1
①	Voltage transformer (110V secondary)	See Below	See Below	1
7	Base	1747 092	1747 092	2
8	Lower start stationary contact (Frame 4)	15C4843G03		6
8	Lower start stationary contact (Frames 5, 5L)	15C4843G04	15C4843G04	6
9	Start contact	1747 108	1747 108	6
10	Contact support	15C4843H08	15C4843H08	6
11	Lower run stationary contact	1747 096	1747 096	6
12	Fastener	1781 354	1781 354	6
13	Upper start stationary contact	296B881G02	296B881G02	6
14	Start contact	296B878H01	296B878H01	6
15	Arc grid	296B881G01	296B881G01	6
16	Upper start contact support	197A750H01	197A750H01	6
10	Upper run contact support, poles 3, 4 (2 phase)	1747 119	1747 119	2
17	Spacer, poles 3, 4, (2 phase)	416C155H05	416C155H05	2
①	Upper run contact support, poles 3, 4, (3 phase)	1754 866	1754 866	2
18	Type MW overload relay base assembly	1747 087	1747 087	2
①	Current transformer	See Below	See Below	1
①	AN-12P block type overload relay	371D594G14		1
①	ECL current transformer 400/5 amps	237A970G06		2
19	Strap to overload relay, poles 1, 5	28B1055H05		2
19	Strap to overload relay, poles 2, 6	1747 158		2
20	Strap to overload relay, poles 1, 5	28B1055H06		2
20	Strap to overload relay, poles 2, 6	1747 216		2
12	Fastener	1781 354	1781 354	③
11	Upper run stationary contact	1747 096	1747 096	6
12	Fastener	1781 354	1781 354	6
21	Start moving contact	296B878H02	296B878H02	6
22	Run moving contact	1747 094	1747 094	6
23	Moving contact spring	197A754H02	197A754H02	6
24	Moving contact retainer	1747 179	1747 179	6

Parts indented are included in the part under which they are indented.

① Not illustrated. ② Plunger guides should be replaced each time the coils replaced.

③ Eight for two phase, ten for three phase.

Ref. No.	Description of Part	Style Number		No. Used
		Frames 4&5	Frame 5L	
25	Crossbar	416C173G01	416C173G01	1
26	Switchbase insulation	1747 162	1747 162	1
27	Operating shaft	296B886H02	296B886H02	1
28	Retaining ring	27D7260H08	27D7260H08	1
29	Locknut	18D8358H27	18D8358H27	1
30	Operating lever	296B885G01	296B885G01	1
31	Centering pin	416C151H01	416C151H01	1
32	Cam follower	197A759H01	197A759H01	1
33	Crossbar drive lever, left	1747 084	1747 084	1
33	Crossbar drive lever, right	38A6141H10	38A6141H10	1
34	Crossbar guide wearing plate	1747 164	1747 164	1
35	Operating mechanism, instantaneous release	550D406G02	550D406G05	1
35	Operating mechanism, time delay		550D406G03	1
31A	Eccentric pin	416C151H06	416C151H06	1
36	Tee lever	296B877G01	296B877G01	1
37	Tee lever pin	416C151H03	416C151H03	1
38	Push rod	296B882G01	416C156H04	1
38	Push rod, instantaneous release		296B882G02	1
39	Push rod pin	416C151H04	416C151H04	2
40	Inertia latch	550D408G01	550D408G01	1
①	Auxiliary latch	416C157H05	416C157H05	1
41	Auxiliary latch pivot pin	416C155H01	416C155H01	1
32	Cam follower	197A759H01	197A759H01	1
42	Torsion spring	197A756H01	197A756H01	1
43	Inertia latch pivot pin	416C151H02	416C151H02	1
①	Time delay complete		550D408G04	1
44	Time delay unit		550D406H15	1
45	Operating spring		334P930H01	1
46	Adjusting screw		1490 384	1
47	Centering lever	296B880H01	296B880H01	2
48	Centering spring	197A775H01	197A775H01	1
49	Eccentric for solenoid adjustment	416C155H05	416C155H06	1
50	Retaining ring	27D7260H07	27D7260H07	1
51	Pushbutton switch unit	1625 900	1625 900	1
52	Pushbutton	296B874G01	296B874G01	1
①	Pushbutton spring	197A754H04	197A754H04	1
53	Operating handle complete	416C175G01	416C175G01	1
54	Knob for operating handle	1624 145	1624 145	1
①	Door latch	416C258H02	416C258H02	1
55	Overload relay heater	④	④	2
①	Contact Kit	550D409G11	550D409G11	1

④ When ordering relay heaters specify code marking stamped on heater or refer to heater table on rear of cabinet door.

Solenoid and Voltage Transformers

Rating Volts	Hertz	Style Number of Part		
		Solenoid Complete	Solenoid Coil	Voltage Transformer
110	25	416C160G27	296B892G02	
110	50	416C160G14	296B892G08	
110	60	416C160G01	296B892G01	
220	25	416C160G28	296B892G02	199A379G01
220	50	416C160G16	296B892G09	
220	60	416C160G03	296B892G02	
380	50	416C160G17	296B892G04	
40	25	416C160G29	296B892G02	199A381G01
440	50	416C160G19	296B892G10	
440	60	416C160G05	296B892G04	
550	25	416C160G30	296B892G02	199A382G01
550	50	416C160G20	296B892G11	
550	60	416C160G07	296B892G06	

Current Transformers

Description of Part	Style Number of Part		
	25 Hertz	60 Hertz	No. Used
Current Transformer	578D467G01	578D467G02	1
Mounting base	578D467H01	578D467H02	1
Coil	1043 555	1043 557	2
Front Connector	578D468H04	578D468H01	2
Rear Connector	578D468H02	578D468H02	2
Mounting Stud	969 020	429 941	2
Nut for Mounting Stud	7545	7545	12

Type JF Auto-starters

220 to 550 Volts, Two and
Three Phase, Frame 4, 5, 5L

Horse- Power	Volts	Hertz	Style Number				Three Phase			
			Two Phase		Auto-Transformer		Auto-Transformer		Solenoid	
			Auto-Starter Complete	Switch Cover	Auto- Transformer	Solenoid	Auto-Starter Complete	Switch Cover	Auto- Transformer	Solenoid
Frame 5L										
100/125	220	60	550D412G45	416C164H43	553D123G39	416C160G03	550D413G62	416C164H53	553D123G39	416C160G03
200/250	440	60	550D412G46	416C164H44	553D125G39	416C160G05	550D413G63	416C164H54	553D125G39	416C160G05
200/250	550	60	550D412G47	416C164H45	553D125G48	416C160G07	550D413G64	416C164H55	553D125G48	416C160G07
100/125	220	50	550D412G48	416C164H46	553D125G39	416C160G17	550D413G65	416C164H56	553D125G33	416C160G16
200/250	380	50	550D412G48	416C164H46	553D125G39	416C160G17	550D413G66	416C164H57	553D125G39	416C160G17
200/250	440	50	550D412G48	416C164H46	553D125G39	416C160G17	550D413G67	416C164H58	553D125G39	416C160G19
200/250	550	50	550D412G48	416C164H46	553D125G39	416C160G17	550D413G68	416C164H59	553D125G45	416C160G20
100/125	220	25	550D412G49	416C164H47	553D124G33	416C160G28	550D413G69	416C164H60	553D124G33	416C160G28
125/150	440	25	550D412G50	416C164H48	553D125G60	416C160G29	550D413G70	416C164H61	553D125G60	416C160G29
125/150	550	25	550D412G51	416C164H49	553D125G60	416C160G30	550D413G71	416C164H62	553D125G60	416C160G30

Frame 5L with Current Transformers for MW Overload Relays

100/125	220	60	578D469G01	431C242H12	553D123G39	416C160G01	578D469G01	431C242H12	553D123G39	416C160G01
200/250	440	60	578D469G02	431C242H13	553D125G39	416C160G01	578D469G02	431C242H13	553D125G39	416C160G01
200/250	550	60	578D469G03	431C242H14	553D125G48	416C160G01	578D469G03	431C242H14	553D125G48	416C160G01
100/125	220	50	578D469G04	431C242H15	553D125G33	416C160G14	578D469G04	431C242H15	553D125G33	416C160G14
200/250	380	50	578D469G05	431C242H16	553D125G39	416C160G14	578D469G05	431C242H16	553D125G39	416C160G14
200/250	440	50	578D469G06	431C242H17	553D125G39	416C160G14	578D469G06	431C242H17	553D125G39	416C160G14
200/250	550	50	578D469G07	431C242H18	553D125G45	416C160G14	578D469G07	431C242H18	553D125G45	416C160G14
100/125	220	25	578D469G08	431C242H19	553D124G33	416C160G27	578D469G08	431C242H19	553D124G33	416C160G27
125/150	440	25	578D469G09	431C242H20	553D125G60	416C160G27	578D469G09	431C242H20	553D125G60	416C160G27
125/150	550	25	578D469G10	431C242H21	553D125G60	416C160G27	578D469G10	431C242H21	553D125G60	416C160G27
100/125	220	60	578D469G21	431C242H22	553D123G39	416C160G03	578D469G21	431C242H22	553D123G39	416C160G03
200/250	440	60	578D469G22	431C242H23	553D125G39	416C160G05	578D469G22	431C242H23	553D125G39	416C160G05
200/250	550	60	578D469G23	431C242H24	553D125G48	416C160G07	578D469G23	431C242H24	553D125G48	416C160G07
100/125	220	50	578D469G24	431C242H25	553D125G33	416C160G16	578D469G24	431C242H25	553D125G33	416C160G16
200/250	380	50	578D469G25	431C242H26	553D125G39	416C160G17	578D469G25	431C242H26	553D125G39	416C160G17
200/250	440	50	578D469G26	431C242H27	553D125G39	416C160G19	578D469G26	431C242H27	553D125G39	416C160G19
200/250	550	50	578D469G27	431C242H28	553D125G45	416C160G20	578D469G27	431C242H28	553D125G45	416C160G20
100/125	220	25	578D469G28	431C242H29	553D124G33	416C160G28	578D469G28	431C242H29	553D124G33	416C160G28
125/150	440	25	578D469G29	431C242H30	553D125G60	416C160G29	578D469G29	431C242H30	553D125G60	416C160G29
125/150	550	25	578D469G30	431C242H31	553D125G60	416C160G30	578D469G30	431C242H31	553D125G60	416C160G30

Frame 5L with Block Type Overload Relays and ECI Current Transformers

100/125	220	60	491A014G01	669C567H12	553D123G39	416C160G01	491A014G01	669C567H12	553D123G39	416C160G01
200/250	440	60	491A014G02	669C567H13	553D125G39	416C160G01	491A014G02	669C567H13	553D125G39	416C160G01
200/250	550	60	491A014G03	669C567H14	553D125G48	416C160G01	491A014G03	669C567H14	553D125G48	416C160G01
100/125	220	50	491A014G04	669C567H15	553D125G33	416C160G14	491A014G04	669C567H15	553D125G33	416C160G14
200/250	380	50	491A014G05	669C567H16	553D125G39	416C160G14	491A014G05	669C567H16	553D125G39	416C160G14
200/250	440	50	491A014G06	669C567H17	553D125G39	416C160G14	491A014G06	669C567H17	553D125G39	416C160G14
200/250	550	50	491A014G07	669C567H18	553D125G45	416C160G14	491A014G07	669C567H18	553D125G45	416C160G14
100/125	220	25	491A014G08	669C567H19	553D124G33	416C160G27	491A014G08	669C567H19	553D124G33	416C160G27
125/150	440	25	491A014G09	669C567H20	553D125G60	416C160G27	491A014G09	669C567H20	553D125G60	416C160G27
125/150	550	25	491A014G10	669C567H21	553D125G60	416C160G27	491A014G10	669C567H21	553D125G60	416C160G27
100/125	220	60	491A014G21	669C567H22	553D123G39	416C160G03	491A014G21	669C567H22	553D123G39	416C160G03
200/250	440	60	491A014G22	669C567H23	553D125G39	416C160G05	491A014G22	669C567H23	553D125G39	416C160G05
200/250	550	60	491A014G23	669C567H24	553D125G48	416C160G07	491A014G23	669C567H24	553D125G48	416C160G07
100/125	220	50	491A014G24	669C567H25	553D125G33	416C160G16	491A014G24	669C567H25	553D125G33	416C160G16
200/250	380	50	491A014G25	669C567H26	553D125G39	416C160G17	491A014G25	669C567H26	553D125G39	416C160G17
200/250	440	50	491A014G26	669C567H27	553D125G39	416C160G19	491A014G26	669C567H27	553D125G39	416C160G19
200/250	550	50	491A014G27	669C567H28	553D125G45	416C160G20	491A014G27	669C567H28	553D125G45	416C160G20
100/125	220	25	491A014G28	669C567H29	553D124G33	416C160G28	491A014G28	669C567H29	553D124G33	416C160G28
125/150	440	25	491A014G29	669C567H30	553D125G60	416C160G29	491A014G29	669C567H30	553D125G60	416C160G29
125/150	550	25	491A014G30	669C567H31	553D125G60	416C160G30	491A014G30	669C567H31	553D125G60	416C160G30