Sealed Maintenance Free Battery

Trust KOYAMA's Innovative Technology

Take a powerful ride with KOYAMA starter batteries.
Whether it's for an entry level vehicle or a high-end perfomrance car,KOYAMA batteries provide reliable starting power that goes all the way through to the end of your journey.

As a result, KOYAMA's outstanding product quality is the result of our innovative technology.

KOYAMA Battery

Delivering outstanding product quality through innovative technology:



- Long Life
- Enhanced Power
- Reliable Performance
- Improved Safety and Usability

BATTERY STRUCTURE

1. Stamped Frame& Grid and high Durability Technology
2. Enveloped separator for low electric resistance
3. Advanced center lug technology and cast on strap
4. Sealed double lid with frame arrestor
5. Integrated computer design and reinforced container
6. Magic eye indicator

JIS Standard for Japanese Vehicles

KOYAMA SMF Battery is the ideal choice for standard vehicles with usual power demands.It's maintenance free and it provides reliable power support for all applications.KOYAMA offers a complete range of SMF Batteries for all of European,Asian and American vehicles.

MAIN BENEFITS:

- Reliable starting power with stamped grid Technology
- High Durability Technology delivers longer service life
- A complete range offered for 99% of vehicles on the market

SMF AUTOMOTIVE BATTERIES FOR JAPANESE VEHICLES

GR.NO	Type No	Old JIS Model	Capacity	CCA	RC	Dimension (mm)				Layout	Terminal	Hold-Down	Weight
			(20HR)	SAE	Min	L	W	H	TH				KGS
B19	MF32B20L	N28	28	280	43	194	128	161	190	0	B	B0	8.00
B19	MF32B20R	N28	28	280	43	194	128	161	190	1	B	B0	8.00
B19	MF32B20L	N33	33	340	48	194	128	161	190	0	B	B0	8.60
B19	MF32B20R	N33	33	340	48	194	128	161	190	1	B	B0	8.60
B19	MF36B20L(S)	NS40L(S)	32	330	47	196	128	202	222	0	B(A)	B0	9.40
B19	MF36B20R(S)	NS40(S)	32	330	47	196	128	202	222	1	B(A)	B0	9.40
B19	MF38B20L(S)	NS40ZL(S)	35	350	54	196	128	202	222	0	B(A)	B0	9.80
B19	MF38B20R(S)	NS40Z(S)	35	350	54	196	128	202	222	1	B(A)	B0	9.80
B19	MF40B20L(S)	NS40ZL(S)	38	390	58	196	128	202	222	0	B(A)	B4	10.20
B19	MF40B20R(S)	NS40Z(S)	38	390	58	196	128	202	222	1	B(A)	B4	10.20
B24	MF32B24L(S)	N40L(S)	40	370	60	237	128	201	221	0	B(A)	B0	11.00
B24	MF32B24R(S)	N40(S)	40	370	60	237	128	201	221	1	B(A)	B0	11.00
B24	MF46B24L(S)	NS60L(S)	45	400	71	237	128	201	221	0	B(A)	B0	11.60
B24	MF46B24R(S)	NS60(S)	45	400	71	237	128	201	221	1	B(A)	B0	11.60
B24	MF55B24L(S)	NX100-6L(S)	48	430	79	237	128	201	221	0	B	B0	12.00
B24	MF55B24R(S)	NX100-6R(S)	48	430	79	237	128	201	221	1	B	B0	12.00
B24	MF60B24L(S)	/	50	460	81	237	128	201	221	0	A	B0	12.50
B24	MF60B24R(S)	/	50	460	81	237	128	201	221	1	A	B0	12.50
D23	MF55D23L		60	550	100	230	172	202	222	0	A	B0	14.50
D23	MF55D23R		60	550	100	230	172	202	222	1	A	B0	14.50
D23	MF75D23L		65	580	110	230	172	202	222	0	A	B0	15.00
D23	MF75D23R		65	580	110	230	172	202	222	1	A	B0	15.00
D23	MF85D23L		70	600	120	230	172	202	222	0	A	B0	16.00
D23	MF85D23R		70	600	120	230	172	202	222	1	A	B0	16.00
D26	MF48D26L	N50L	50	450	81	259	172	202	222	0	A	B0	15.40
D26	MF48D26R	N50	50	450	81	259	172	202	222	1	A	B0	15.40
D26	MF55D26L	N50ZL	60	500	101	259	172	202	222	0	A	B0	16.00
D26	MF55D26R	N50Z	60	500	101	259	172	202	222	1	A	B0	16.00
D26	MF65D26L	NS70L	65	550	113	259	172	202	222	0	A	B0	16.50
D26	MF65D26R	NS70	65	550	113	259	172	202	222	1	A	B0	16.50
D26	MF75D26L	NS70L	70	580	123	259	172	202	222	0	A	B0	17.00
D26	MF75D26R	NS70	70	580	123	259	172	202	222	1	A	B0	17.00
D26	MF80D26L	NX110-5L	75	600	133	259	172	202	222	0	A	B0	17.50

To be continued

JIS Standard for Japanese Vehicles

SMF AUTOMOTIVE BATTERIES FOR JAPANESE VEHICLES													
GR.NO	Type No	Old JIS Model	Capacity	CCA	RC	Dimension (mm)				Layout	Terminal	Hold-Down	Weight
			(20HR)	SAE	Min	L	W	H	TH				KGS
D26	MF80D26R	NX110-5	75	600	133	259	172	202	222	1	A	B0	17.50
D26	MF90D26L		80	630	140	259	172	202	222	0	A	B0	18.30
D26	MF90D26R		80	630	140	259	172	202	222	1	A	B0	18.30
D31	MF65D31L	N70L	70	600	120	305	172	202	222	0	A	B1	18.20
D31	MF65D31R	N70L	70	600	120	305	172	202	222	1	A	B1	18.20
D31	MF75D31L	N70ZL	75	660	130	305	172	202	222	0	A	B1	18.70
D31	MF75D31R	N70Z	75	660	130	305	172	202	222	1	A	B1	18.70
D31	MF95D31L	NX120-7L	80	680	140	305	172	202	222	0	A	B1	19.50
D31	MF95D31R	NX120-7	80	680	140	305	172	202	222	1	A	B1	19.50
D31	MF105D31L		90	750	155	305	172	202	222	0	A	B1	20.00
D31	MF105D31R		90	750	155	305	172	202	222	1	A	B1	20.00
D31	MF115D31L		95	780	155	305	172	202	222	0	A	B1	21.50
D31	MF115D31R		95	780	155	305	172	202	222	1	A	B1	21.50
D33	MF115D33L		95	780	160	325	172	200	220	0	A	B0	22.50
D33	MF115D33R		95	780	160	325	172	200	220	1	A	B0	22.50
E41	MF95E41L	N100L	100	830	179	402	171	205	226	0	A	B0	25.50
E41	MF95E41R	N100	100	830	179	402	171	205	226	1	A	B0	25.50
E41	MF115E41L	N100ZL	110	850	190	402	171	205	226	0	A	B0	26.10
E41	MF115E41L	N100Z	110	850	190	402	171	205	226	0	A	B0	26.10
E41	MF135E41L	NX200-10L	120	890	200	402	171	205	226	0	A	B0	27.20
E41	MF135E41L	NX200-10	120	890	200	402	171	205	226	0	A	B0	27.20
F51	MF115F51	N120	120	870	223	506	182	210	233	4	A	B0	31.00
	MF145F51	N135	135	900	256	506	182	210	233	4	A	B0	31.80
G51	MF145G51	N150	150	930	301	510	220	195	218	4	A	B0	36.00
	MF165G51	N170	170	1000	336	510	220	195	218	4	A	B0	38.50
	MF195G51	N180	180	1100	360	510	220	195	218	4	A	B0	40.00
H52	MF 210H52	N200	200	1150	407	509	274	218	238	4	A	B0	45.50
H52	MF 245H52	N220	220	1300	407	509	274	218	238	4	A	B0	48.50







DIN Standard for European Vehicles

SMF AUTOMOTIVE BATTERIES FOR EUROPEAN VEHICLES											
Gr. No	Type No.	Capacity	CCA	Dimension (mm				Layout	Terminal	Hold-Down	Weight
		(20HR)	EN	L	W	H	TH				KGS
LB1	MF53646	36	330	207	175	175	175	0	A	B13	10.6
LB1	MF54321	43	400	207	175	175	175	0	A	B13	11.2
LB1	MF54322	43	400	207	175	175	175	1	A	B13	11.2
L1	MF54459	44	430	206	174	190	190	0	A	B13	11.3
L1	MF54464	44	430	206	174	190	190	1	A	B13	11.9
L1	MF55054	50	450	206	174	190	190	0	A	B13	12.8
LB2	MF54519	45	400	241	174	175	175	0	A	B13	12.6
LB2	MF55046	50	450	241	174	175	175	0	A	B13	13
LB2	MF55457	54	480	241	174	175	175	0	A	B13	13.6
LB2	MF55459	54	480	241	174	175	175	1	A	B13	13.6
LB2	MF56077	60	510	241	174	175	175	0	A	B13	14.2
L2	MF55530	55	480	241	174	190	190	0	A	B13	13.3
L2	MF55565	55	480	241	174	190	190	1	A	B13	13.3
L2	MF56019	60	500	241	174	190	190	0	A	B13	13.6
L2	MF56020	60	500	241	174	190	190	1	A	B13	13.6
L2	MF56219	62	540	241	174	190	190	0	A	B13	14.2
L2	MF56220	62	540	241	174	190	190	1	A	B13	14.2
LB3	MF55415	54	480	283	172	172	172	0	A	B13	15.3
LB3	MF56318	63	540	283	172	172	172	0	A	B13	15.7
LB3	MF56828	68	600	283	172	172	172	0	A	B13	16.5
LB3	MF57117	71	640	277	174	175	175	0	A	B13	16.2
L3	MF56618	66	540	277	174	190	190	0	A	B13	15.7
L3	MF56633	66	540	277	174	190	190	1	A	B13	15.7
L3	MF57220	72	610	277	174	190	190	0	A	B13	16.2
L3	MF57219	72	610	277	174	190	190	1	A	B13	16.2
L3	MF57412	75	650	277	174	190	190	0	A	B13	17
L3	MF57413	75	650	277	174	190	190	1	A	B13	17
L3	MF57539	75	680	277	174	190	190	0	A	B13	17.2
L4	MF58043	80	690	315	174	190	190	0	A	B13	19
LB5	MF58515	85	700	354	174	175	175	0	A	B13	19.5
L5	MF58827	88	720	354	174	190	190	0	A	B13	21
L5	MF58821	88	720	354	174	190	190	1	A	B13	21
L5	MF59218	92	750	354	174	190	190	0	A	B13	21.6
L5	MF59524	92	780	354	174	190	190	0	A	B13	22.7
L5	MF60038	100	850	354	174	190	190	0	A	B13	23.3
L6	MF61002	110	900	394	174	190	190	0	A	B13	26

To be continued

DIN Standard For European Vehicles

SMF AUTOMOTIVE BATTERIES FOR EUROPEAN VEHICLES											
Gr. No	Type No.	Capacity	CCA	Dimension (mm				Layout	Terminal	Hold-Down	Weight
		(20HR)	EN	L	W	H	TH				KGS
B19	MF53520	35	350	196	128	202	222	0	B	B0	9.40
B19	MF53522	35	350	196	128	202	222	1	B	B0	9.40
B19	MF54026	40	360	196	128	202	222	0	B	B0	10.20
B19	MF54027	40	360	196	128	202	222	1	B	B0	10.20
B24	MF54523	45	400	237	128	201	221	0	A	B0	11.60
B24	MF54524	45	400	237	128	201	221	1	A	B0	11.60
B24	MF54584	45	400	237	128	201	221	0	B	B0	11.60
B24	MF54551	45	400	237	128	201	221	1	B	B0	11.60
D23	MF56068	60	550	230	172	202	222	0	A	B1	14.50
D23	MF56069	60	550	230	172	202	222	1	A	B1	14.50
D26	MF56048	60	500	259	172	202	222	0	A	B1	16.00
D26	MF56049	60	500	259	172	202	222	1	A	B1	16.00
D26	MF57024	70	580	259	172	202	222	0	A	B1	17.00
D26	MF57029	70	580	259	172	202	222	1	A	B1	17.00
D31	MF57512	75	600	302	172	200	220	0	A	B1	18.80
D31	MF57513	75	600	302	172	200	220	1	A	B1	18.80
D31	MF58513	85	680	302	172	200	220	0	A	B1	19.50
D31	MF58514	85	680	302	172	200	220	1	A	B1	19.50
D31	MF59518	95	750	302	172	200	220	0	A	B1	20.00
D31	MF59519	95	750	302	172	200	220	1	A	B1	20.00
D31	MF60045	100	800	302	172	200	220	0	A	B1	21.50
D31	MF60046	100	800	302	172	200	220	1	A	B1	21.50
E41	MF60026	100	830	402	171	205	226	0	A	B0	25.50
	MF60525	105	850	402	171	205	226	0	A	B0	26.10







BCI Standard For American Vehicles

SMF AUTOMOTIVE BATTERIES FOR EUROPEAN VEHICLES

GR.No	Type No.	RC	CCA	Dimension (mm)				Layout	Terminal	Hold-Down	BCI Assembly Figure No.	Weight
		(MIN)	SAE	L	W	H	TH					
21	MF21-450	80	450	200	172	200	220	1	A	B1	10	11
21R	MF21R-450	80	450	200	172	200	220	0	A	B1	11	11
22F	MF22F-60	90	425	240	173	182	203	0	DT	B1	11F	16.5
22F	MF22F-60	90	425	240	173	182	203	0	DT	B1	11F	16.5
22NF	MF22NF-40	60	325	240	130	200	220	0	DT	B1	11F	12
24	MF24-450	80	450	257	172	200	220	1	A	B1	10	15.40
24	MF24-500	90	500	257	172	200	220	1	A	B1	10	16.00
24	MF24-550	100	550	257	172	200	220	1	A	B1	10	16.50
24	MF24-600	113	600	257	172	200	220	1	A	B1	10	17.10
24	MF24-630	130	630	257	172	200	220	1	A	B1	10	17.60
24	MF24-680	140	680	257	172	200	220	1	A	B1	10	18.30
24R	MF24R-450	80	500	257	172	200	220	0	A	B1	11	15.40
24R	MF24R-500	90	500	257	172	200	220	0	A	B1	11	16.00
24R	MF24R-550	100	550	257	172	200	220	0	A	B1	11	16.50
24R	MF24R-600	113	600	257	172	200	220	0	A	B1	11	17.10
24R	MF24R-630	130	630	257	172	200	220	0	A	B1	11	17.60
24F	MF24F-680	145	680	266	172	200	220	0	A	B5	11F	18.30
25	MF25-550	100	550	230	172	200	220	1	A	B0	10	14.50
25	MF25-580	110	580	230	172	200	220	1	A	B0	10	15.00
25	MF25-600	118	600	230	172	200	220	1	A	B0	10	16.10
26	MF26-450	80	450	208	172	180	200	1	A	B1	10	12.3
26	MF26-550	100	550	208	172	180	200	1	A	B1	10	13.4
26R	MF26R-450	80	450	208	172	180	200	0	A	B1	11	12.3
26R	MF26R-550	100	550	208	172	180	200	0	A	B1	11	13.4
27	MF27-600	120	600	302	172	200	220	1	A	B1	10	18.50
27	MF27-660	130	660	302	172	200	220	1	A	B1	10	18.80
27	MF27-680	140	680	302	172	200	220	1	A	B1	10	19.50
27	MF27-750	155	750	302	172	200	220	1	A	B1	10	20.00
27R	MF27R-600	120	600	302	172	200	220	0	A	B1	11	18.50
27R	MF27R-660	130	660	302	172	200	220	0	A	B1	11	18.80
27R	MF27R-680	140	680	302	172	200	220	0	A	B1	11	19.50
27R	MF27R750	155	750	302	172	200	220	0	A	B1	11	20.00
27F	MF27F-600	120	600	311	172	200	220	0	A	B5	11F	18.30
27F	MF27F-660	130	660	311	172	200	220	0	A	B5	11F	18.80
27F	MF27F-680	140	680	311	172	200	220	0	A	B5	11F	19.50
27F	MF27F-750	155	750	311	172	200	220	0	A	B5	11F	20.00
30H	MF30H-850	182	850	325	172	200	220	1	A	B1	10	21.50
31AP	MF31AP-630	155	630	330	172	218	236	1	A	B0	18	22.5
31AP	MF31AP-750	160	750	330	172	218	236	1	A	B0	18	23.7
31AP	MF31AP-850	178	850	330	172	218	236	1	A	B0	18	24.5
31AP	MF31AP-1000	190	1000	330	172	218	236	1	A	B0	18	27.5
31T	MF31T-630	155	630	330	172	218	236	1	STUD	B0	18	22.5
31T	MF31T-750	160	750	330	172	218	236	1	STUD	B0	18	23.7

To be continued

BCI Standard For American Vehicles

SMF AUTOMOTIVE BATTERIES FOR EUROPEAN VEHICLES

GR.No	Type No.	RC	CCA	Dimension (mm)				Layout	Terminal	Hold-Down	BCI Assembly Figure No.	Weight
		(MIN)	SAE	L	W	H	TH					
31T	MF31T-1000	190	1000	330	172	218	236	1	STUD	B0	18	27.5
31AT	MF31AP-630	155	630	330	172	218	236	1	AT	B0	18	22.5
31AT	MF31AT-750	160	750	330	172	218	236	1	AT	B0	18	23.7
31AT	MF31AT-850	178	850	330	172	218	236	1	AT	B0	18	24.5
31AT	MF31AT-1000	190	1000	330	172	218	236	1	AT	B0	18	27.5
34	MF34-630	125	630	262	175	180	206	1	A	B1	10	16.8
34R	MF34R-630	125	630	262	175	180	206	0	A	B1	11	16.8
35	MF35-550	100	550	230	172	200	220	0	A	B1	11	14.50
35	MF35-600	110	580	230	172	200	220	0	A	B1	11	15.00
35	MF35-650	110	580	230	172	200	220	0	A	B1	11	16.00
36R	MF36R-630	125	630	262	175	180	206	0	A	B1	11	16.8
40R	MF40R-700	130	700	278	175	175	175	0	A	B13	15	16
41	MF41-650	125	650	283	175	175	175	0	A	B13	15	16.5
42	MF42-390	80	390	242	174	175	175	0	A	B13	15	12.6
42	MF42-450	85	450	242	174	175	175	0	A	B13	15	13.3
42	MF42-480	90	480	242	174	175	175	0	A	B13	15	13.8
42	MF42-550	95	550	242	174	175	175	0	A	B13	15	14.2
43	MF43-700	125	700	312	174	190	190	0	A	B13	15	18.8
43	MF43-750	135	750	312	174	190	190	0	A	B13	15	19.5
43	MF43-780	140	780	312	174	190	190	0	A	B13	15	20.8
45	MF45-550	100	550	230	172	200	220	1	A	B0	10F	14.50
46	MF46-600	110	600	268	172	203	225	1	A	B0	10F	16.50
47	MF47-500	95	500	242	174	190	190	0	A	B13	24	13.5
47	MF47-600	110	600	242	174	190	190	0	A	B13	24	14.7
48	MF48-540	100	540	277	174	190	190	0	A	B13	24	15.7
48	MF48-630	110	630	277	174	190	190	0	A	B13	24	16.2
48	MF48-690	130	690	277	174	190	190	0	A	B13	24	17.1
49	MF49-750	175	750	354	174	190	190	0	A	B13	24	20.8
49	MF49-800	180	800	354	174	190	190	0	A	B13	24	21.5
51	MF51-430	71	430	237	128	201	222	1	A	B1	10	11.60
51	MF51-460	78	460	237	128	201	222	1	A	B1	10	12.00
51R	MF51R-430	71	430	237	128	201	222	0	A	B1	10	11.50
51R	MF51R-460	78	460	237	128	201	222	0	A	B1	11	12.00
58	MF58-460	75	460	254	182	157	178	1	A	B8	26	12.90
58	MF58-500	90	500	254	182	157	178	1	A	B8	26	13.40
58	MF58-560	100	560	254	182	157	178	1	A	B8	26	13.90
58R	MF58R-460	75	460	254	182	157	178	0	A	B8	19	12.90
58R	MF58R-500	90	500	254	182	157	178	0	A	B8	19	13.40
58R	MF58R-560	100	560	254	182	157	178	0	A	B8	19	13.90
65	MF65-650	116	650	305	187	171	191	1	A	B8	10	18.6
65	MF65-750	128	750	305	187	171	191	1	A	B8	10	19.5
65R	MF65R-650	116	650	305	187	171	191	1	A	B8	10	18.6
65R	MF65R-700	128	700	305	187	171	191	1	A	B8	10	19.5

BCI Standard For American Vehicles

SMF AUTOMOTIVE BATTERIES FOR EUROPEAN VEHICLES												
GR.No	Type No.	RC	CCA	Dimension (mm)				Layout	Terminal	Hold-Down	BCI Assembly Figure No.	Weight
		(MIN)	SAE	L	W	H	TH					
75	MF75-500	90	500	230	179	180	180	1	SIDE	B1	17	13.5
75	MF75-550	100	550	230	179	180	180	1	SIDE	B1	17	14.3
75	MF75-600	113	500	230	179	180	180	1	SIDE	B1	17	15
78	MF78-550	100	550	260	179	180	180	1	SIDE	B1	17	15.6
78	MF78-600	113	600	260	179	180	180	1	SIDE	B1	17	16.1
78	MF78-670	130	700	260	179	180	180	1	SIDE	B1	17	16.6
85	MF85-550	85	550	230	172	180	200	0	A	B1	11	14.5
85	MF85-610	90	610	230	172	180	200	0	A	B1	11	15.5
86(85R)	MF85R-550	85	550	230	172	180	200	1	A	B1	10	14.5
86(85R)	MF85R-610	90	610	230	172	180	200	1	A	B1	10	15.5
90	MF90-450	80	450	242	174	175	175	0	A	B13	24	13.1
90	MF90-500	90	500	242	174	175	175	0	A	B13	24	13.6
90	MF90-550	100	550	242	174	175	175	0	A	B13	24	14.2
91	MF91-600	100	600	277	174	175	175	0	A	B13	24	15.2
91	MF91-650	110	650	277	174	175	175	0	A	B13	24	15.7
91	MF91-700	124	700	277	174	175	175	0	A	B13	24	16.3
92	MF92-730	135	730	315	174	175	175	0	A	B13	24	19.2
93	MF93-750	154	750	354	174	175	175	0	A	B13	24	21.5
94R	MF94R-720	140	750	315	174	190	190	0	A	B13	24	19.5
6T	MF6T-750	180	750	286	265	203	230	2	A	B0	27	23.5
45S	45S-400	108	400	236	127	185	201	1	A	B6	10	11.1
45SL	45SL-400	108	400	236	127	185	201	0	A	B6	10	11.1







SMF Commercial Batteries

HEAVY DUTY BATTERY FOR COMMERCIAL VEHICLES												
Gr.No		Type No.	ETN NO.	Capacity	CCA	Dimension (mm)				Layout	Terminal	Weight
			Old JIS NO.	(AH-20Hr)	(EN/SAE)	L	W	H	TH			KG
12-VOLT SUPER HEAVY DUTY COMMERCIAL SEALED BATTERIES												
EN	EN	61017	610 017 060	110	600	512	186	195	216	3	A	29.5
		62034	620 034 068	120	680	512	186	195	216	3	A	30.5
		63530	635 030 068	135	680	512	186	195	216	3	A	31.5
		63531	635 031 068	135	680	512	186	195	216	4	A	31.5
		64020	640 020 068	140	680	512	186	195	216	3	A	33
	B	64317	643 017 085	143	850	512	220	195	216	3	A	34..5
		65017	650 017 085	150	850	512	220	195	216	3	A	35.8
		66514	665 014 095	165	950	512	220	195	216	3	A	36.5
		67043	670 043 100	170	1000	512	220	195	216	3	A	38.5
		68032	680 032 100	180	1000	512	220	195	216	3	A	40
	C	70027	700 027 105	200	1050	512	275	215	236	3	A	45.5
		70029	700 029 105	200	1050	512	275	215	236	4	A	45.5
		71014	710 014 115	210	1150	512	275	215	236	3	A	46.4
		73011	730 011 120	230	1200	512	275	215	236	3	A	48.1
JIS	F51	115F51	N120	120	640	506	182	210	230	4	A	30.6
		150F51	N135	135	720	506	182	210	230	4	A	31.5
		145F51	N140	140	780	506	182	210	230	4	A	33
	G51	145G51	N150	150	950	506	220	210	230	4	A	35.6
		165G51	N160	160	950	506	220	210	230	4	A	36.5
		180G51	N170	170	950	506	220	210	230	4	A	38.5
		195G51	N180	180	1000	506	220	210	230	4	A	40
	H52	210H52	N200	200	1200	519	277	218	240	4	A	45.5
		245H52	N220	220	1300	519	277	218	240	4	A	48.1
BCI	4D	4D-950		150	950	528	214	224	246	4	A	35.6
	8D	8D-1300		200	1300	528	277	224	246	4	A	48.1





