

## MR-J2s Parameter Summary

MFG Preset or not used in position mode

Same value as the default listed in the manual

Different value than the default, but doesn't seem relevant

Different value than the default, seems potentially relevant

No.	Symbol	Name	Mode	Default	Current	Current Selection
0	*STY	Control mode	PST	0000	0000	In position mode, regenerative option disabled
1	*OP1	Function selection 1	PST	0002	0002	3.555 [ms] input signal filter enabled
2	ATU	Auto tuning	PS	0105	0105	Auto-tuning with 35 [Hz] resonance response level
3	CMX	Electronic gear numerator	P	1	1	Electronic gear set 1:1 (along with parameter #4)
4	CDV	Electronic gear denominator	P	1	1	Electronic gear set 1:1 (along with parameter #3)
5	INP	In-position range	P	100	100	Sets how close to commanded position is <i>good enough</i>
6	PG1	Position control gain 1	P	35	32	Ignored when auto-tuning is enabled (parameter #2)
7	PST	Pos acc/dec time constant	P	3	3	Smoothing for acc/dec
8	SC1	Internal speed command 1	ST	100	100	
9	SC2	Internal speed command 2	ST	500	500	
10	SC3	Internal speed command 3	ST	1000	1000	
11	STA	Acc time constant	ST	0	0	
12	STB	Dec time constant	ST	0	0	
13	STC	S-pattern acc/dec time constant	ST	0	0	
14	TQC	Torque command time constant	T	0	0	
15	*SNO	Station number setting	PST	0	0	Used during serial communication to ID station #
16	*BPS	Serial comm selec., alarm clear	PST	0000	0000	Serial comm w/ RS-232C, 9600 [bps]
17	MOD	Analog monitor output	PST	0100	0100	Determines what is displayed on analog output
18	*DMD	Status display selection	PST	0000	0000	Determines what info is displayed on LED at startup
19	*BLK	Parameter write inhibit	PST	0000	000E	Allow parameters 20-84 to be seen and edited
20	*OP2	Function selection 2	PS	0000	0000	Reacting to power failure, servo lock at startup
21	*OP3	Function selection 3	P	0000	0000	Positive logic, fwd/rev pulse train
22	*OP4	Function selection 4	PST	0000	0000	Gradual or abrupt deceleration
23	FFC	Feed forward gain	P	0	0	Response to sudden accel/decel
24	ZSP	Zero speed	PST	50	50	Anything under 50 [rpm] is considered "zero speed"
25	VCM	Analog speed max	ST	0	0	
26	TLC	Analog torque max	T	100	100	
27	*ENR	Encoder output pulses	PST	4000	16	Sets the number of pulses/rev mirrored by the amp
28	TL1	Internal torque limit 1	PST	100	100	Do not limit permitted output torque
29	VCO	Analog speed command offset	ST	Calibrated	0	
30	TLO	Analog torque command offset	ST	0	0	
31	MO1	Analog monitor 1 offset	PST	0	0	Adjust offset voltage of analog monitor output
32	MO2	Analog monitor 2 offset	PST	0	0	Adjust offset voltage of analog monitor output
33	MBR	Elec.mag. brake seq. output	PST	100	100	Delay time between brake interlock and servo disable
34	GD2	Load inertia : motor inertia	PS	70	111	Ignored when auto-tuning is enabled (parameter #2)
35	PG2	Position control gain 2	P	35	32	Ignored when auto-tuning is enabled (parameter #2)
36	VG1	Speed control gain 1	PS	177	163	Ignored when auto-tuning is enabled (parameter #2)
37	VG2	Speed control gain 2	PS	817	1152	Ignored when auto-tuning is enabled (parameter #2)
38	VIC	Speed integral comp.	PS	48	53	Ignored when auto-tuning is enabled (parameter #2)
39	VDC	Speed differential comp.	PS	980	980	Set differential comp. when proportional control is used
40	N/A	Mfg Preset	N/A	0	0	Mfg Preset
41	*DIA	Input signal auto on selection	PST	0000	0000	Determines whether SON, LSP, LSN are used
42	*DI1	Input signal selection 1	PST	0003	0003	Comms. protocol for control mode change command
43	*DI2	Input signal selection 2	PST	0111	0111	Comms. protocol for control mode change command

No.	Symbol	Name	Mode	Default	Current	Current Selection
44	*DI3	Input signal selection 3	PST	0222	0222	Comms. protocol for control mode change command
45	*DI4	Input signal selection 4	PST	0665	0665	Comms. protocol for control mode change command
46	*DI5	Input signal selection 5	PST	0770	0770	Comms. protocol for control mode change command
47	*DI6	Input signal selection 6	PST	0883	0883	Comms. protocol for control mode change command
48	*DI7	Input signal selection 7	PST	0994	0994	Comms. protocol for control mode change command
49	*DO1	Output signal selection 1	PST	0000	0000	Set output pins for amp status information
50	N/A	Mfg Preset	N/A	0000	0000	Mfg Preset
51	*OP6	Function selection 6	PST	0000	0000	Set whether reset disables the drive
52	N/A	Mfg Preset	N/A	0000	0000	Mfg Preset
53	*OP8	Function selection 8	PST	0000	0100	Serial communication protocol
54	*OP9	Function selection 9	PST	0000	1000	Motor direction, encoder direction, encoder pulse setting
55	*OPA	Function selection A	P	0000	0000	Acc/dec time constant
56	SIC	Serial comm time-out selection	PST	0	0	Time-out period for serial communication
57	N/A	Mfg Preset	N/A	10	10	Mfg Preset
58	NH1	Resonance suppression filter 1	PST	0000	0000	Deep resonance notch filter
59	NH2	Resonance suppression filter 2	PST	0000	0000	Deep resonance notch filter
60	LPF	Low-pass filter	PST	0000	0000	Low-pass filter with normal sensitivity
61	GD2B	Load inertia : motor inertia 2	PS	70	70	Ignored when auto-tuning is enabled (parameter #2)
62	PG2B	Position control gain 2 ratio	P	100	100	Ignored when auto-tuning is enabled (parameter #2)
63	VG2B	Speed control gain 2 ratio	PS	100	100	Ignored when auto-tuning is enabled (parameter #2)
64	VICB	Speed integral comp. ratio	PS	100	100	Ignored when auto-tuning is enabled (parameter #2)
65	*CDP	Gain changing selection	PS	0000	0000	Gain changing turned off
66	CDS	Gain changing condition	PS	10	10	Ignored when gain changing is turned off
67	CDT	Gain changing time constant	PS	1	1	Ignored when gain changing is turned off
68	N/A	Mfg Preset	N/A	0	0	Mfg Preset
69	CMX2	Command pulse factor numerator 2	P	1	1	Multiplication coefficient for command pulses is 1
70	CMX3	Command pulse factor numerator 3	P	1	1	Multiplication coefficient for command pulses is 1
71	CMX4	Command pulse factor numerator 4	P	1	1	Multiplication coefficient for command pulses is 1
72	SC4	Internal speed command 4	ST	200	200	
73	SC5	Internal speed command 5	ST	300	300	
74	SC6	Internal speed command 6	ST	500	500	
75	SC7	Internal speed command 7	ST	800	800	
76	TL2	Internal torque limit 2	PST	100	100	Do not limit permitted output torque
77	N/A	Mfg Preset	N/A	00	100	Value in Amp is different than default, but only by one digit. Is the default "00" a typo in the manual?
78	N/A	Mfg Preset	N/A	10000	10000	Mfg Preset
79	N/A	Mfg Preset	N/A	10	10	Mfg Preset
80	N/A	Mfg Preset	N/A	10	10	Mfg Preset
81	N/A	Mfg Preset	N/A	100	100	Mfg Preset
82	N/A	Mfg Preset	N/A	100	100	Mfg Preset
83	N/A	Mfg Preset	N/A	100	100	Mfg Preset
84	N/A	Mfg Preset	N/A	0000	0000	Mfg Preset