

PRM 402 MARINE GEARBOX BY NEWAGE

FULL HYDRAULIC OPERATION: SHIMING, OFFSET OR DOWNANGLE OUTLET SHAFT

The PRM402 is the perfect counterpart for use in both pleasure craft and commercial boats. Its full hydraulic gear operation provides superior operational characteristics which require adjustment for speed and stern drive and down-hull vessel gear to be transmitted continuously in the direction.

To cater for the widest possible variety of boats, the PRM402 is offered in three different configurations to suit with either output shafts and shafts gear, gear and propeller. The maximum speeds are 1,200, 1,400, 1,600, 1,800, 2,000, 2,200, 2,400, 2,600, 2,800, 3,000, 3,200, 3,400, 3,600, 3,800, 4,000, 4,200, 4,400, 4,600, 4,800, 5,000, 5,200, 5,400, 5,600, 5,800, 6,000, 6,200, 6,400, 6,600, 6,800, 7,000, 7,200, 7,400, 7,600, 7,800, 8,000, 8,200, 8,400, 8,600, 8,800, 9,000, 9,200, 9,400, 9,600, 9,800, 10,000, 10,200, 10,400, 10,600, 10,800, 11,000, 11,200, 11,400, 11,600, 11,800, 12,000, 12,200, 12,400, 12,600, 12,800, 13,000, 13,200, 13,400, 13,600, 13,800, 14,000, 14,200, 14,400, 14,600, 14,800, 15,000, 15,200, 15,400, 15,600, 15,800, 16,000, 16,200, 16,400, 16,600, 16,800, 17,000, 17,200, 17,400, 17,600, 17,800, 18,000, 18,200, 18,400, 18,600, 18,800, 19,000, 19,200, 19,400, 19,600, 19,800, 20,000, 20,200, 20,400, 20,600, 20,800, 21,000, 21,200, 21,400, 21,600, 21,800, 22,000, 22,200, 22,400, 22,600, 22,800, 23,000, 23,200, 23,400, 23,600, 23,800, 24,000, 24,200, 24,400, 24,600, 24,800, 25,000, 25,200, 25,400, 25,600, 25,800, 26,000, 26,200, 26,400, 26,600, 26,800, 27,000, 27,200, 27,400, 27,600, 27,800, 28,000, 28,200, 28,400, 28,600, 28,800, 29,000, 29,200, 29,400, 29,600, 29,800, 30,000, 30,200, 30,400, 30,600, 30,800, 31,000, 31,200, 31,400, 31,600, 31,800, 32,000, 32,200, 32,400, 32,600, 32,800, 33,000, 33,200, 33,400, 33,600, 33,800, 34,000, 34,200, 34,400, 34,600, 34,800, 35,000, 35,200, 35,400, 35,600, 35,800, 36,000, 36,200, 36,400, 36,600, 36,800, 37,000, 37,200, 37,400, 37,600, 37,800, 38,000, 38,200, 38,400, 38,600, 38,800, 39,000, 39,200, 39,400, 39,600, 39,800, 40,000, 40,200, 40,400, 40,600, 40,800, 41,000, 41,200, 41,400, 41,600, 41,800, 42,000, 42,200, 42,400, 42,600, 42,800, 43,000, 43,200, 43,400, 43,600, 43,800, 44,000, 44,200, 44,400, 44,600, 44,800, 45,000, 45,200, 45,400, 45,600, 45,800, 46,000, 46,200, 46,400, 46,600, 46,800, 47,000, 47,200, 47,400, 47,600, 47,800, 48,000, 48,200, 48,400, 48,600, 48,800, 49,000, 49,200, 49,400, 49,600, 49,800, 50,000, 50,200, 50,400, 50,600, 50,800, 51,000, 51,200, 51,400, 51,600, 51,800, 52,000, 52,200, 52,400, 52,600, 52,800, 53,000, 53,200, 53,400, 53,600, 53,800, 54,000, 54,200, 54,400, 54,600, 54,800, 55,000, 55,200, 55,400, 55,600, 55,800, 56,000, 56,200, 56,400, 56,600, 56,800, 57,000, 57,200, 57,400, 57,600, 57,800, 58,000, 58,200, 58,400, 58,600, 58,800, 59,000, 59,200, 59,400, 59,600, 59,800, 60,000, 60,200, 60,400, 60,600, 60,800, 61,000, 61,200, 61,400, 61,600, 61,800, 62,000, 62,200, 62,400, 62,600, 62,800, 63,000, 63,200, 63,400, 63,600, 63,800, 64,000, 64,200, 64,400, 64,600, 64,800, 65,000, 65,200, 65,400, 65,600, 65,800, 66,000, 66,200, 66,400, 66,600, 66,800, 67,000, 67,200, 67,400, 67,600, 67,800, 68,000, 68,200, 68,400, 68,600, 68,800, 69,000, 69,200, 69,400, 69,600, 69,800, 70,000, 70,200, 70,400, 70,600, 70,800, 71,000, 71,200, 71,400, 71,600, 71,800, 72,000, 72,200, 72,400, 72,600, 72,800, 73,000, 73,200, 73,400, 73,600, 73,800, 74,000, 74,200, 74,400, 74,600, 74,800, 75,000, 75,200, 75,400, 75,600, 75,800, 76,000, 76,200, 76,400, 76,600, 76,800, 77,000, 77,200, 77,400, 77,600, 77,800, 78,000, 78,200, 78,400, 78,600, 78,800, 79,000, 79,200, 79,400, 79,600, 79,800, 80,000, 80,200, 80,400, 80,600, 80,800, 81,000, 81,200, 81,400, 81,600, 81,800, 82,000, 82,200, 82,400, 82,600, 82,800, 83,000, 83,200, 83,400, 83,600, 83,800, 84,000, 84,200, 84,400, 84,600, 84,800, 85,000, 85,200, 85,400, 85,600, 85,800, 86,000, 86,200, 86,400, 86,600, 86,800, 87,000, 87,200, 87,400, 87,600, 87,800, 88,000, 88,200, 88,400, 88,600, 88,800, 89,000, 89,200, 89,400, 89,600, 89,800, 90,000, 90,200, 90,400, 90,600, 90,800, 91,000, 91,200, 91,400, 91,600, 91,800, 92,000, 92,200, 92,400, 92,600, 92,800, 93,000, 93,200, 93,400, 93,600, 93,800, 94,000, 94,200, 94,400, 94,600, 94,800, 95,000, 95,200, 95,400, 95,600, 95,800, 96,000, 96,200, 96,400, 96,600, 96,800, 97,000, 97,200, 97,400, 97,600, 97,800, 98,000, 98,200, 98,400, 98,600, 98,800, 99,000, 99,200, 99,400, 99,600, 99,800, 100,000, 100,200, 100,400, 100,600, 100,800, 101,000, 101,200, 101,400, 101,600, 101,800, 102,000, 102,200, 102,400, 102,600, 102,800, 103,000, 103,200, 103,400, 103,600, 103,800, 104,000, 104,200, 104,400, 104,600, 104,800, 105,000, 105,200, 105,400, 105,600, 105,800, 106,000, 106,200, 106,400, 106,600, 106,800, 107,000, 107,200, 107,400, 107,600, 107,800, 108,000, 108,200, 108,400, 108,600, 108,800, 109,000, 109,200, 109,400, 109,600, 109,800, 110,000, 110,200, 110,400, 110,600, 110,800, 111,000, 111,200, 111,400, 111,600, 111,800, 112,000, 112,200, 112,400, 112,600, 112,800, 113,000, 113,200, 113,400, 113,600, 113,800, 114,000, 114,200, 114,400, 114,600, 114,800, 115,000, 115,200, 115,400, 115,600, 115,800, 116,000, 116,200, 116,400, 116,600, 116,800, 117,000, 117,200, 117,400, 117,600, 117,800, 118,000, 118,200, 118,400, 118,600, 118,800, 119,000, 119,200, 119,400, 119,600, 119,800, 120,000, 120,200, 120,400, 120,600, 120,800, 121,000, 121,200, 121,400, 121,600, 121,800, 122,000, 122,200, 122,400, 122,600, 122,800, 123,000, 123,200, 123,400, 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145,800, 146,000, 146,200, 146,400, 146,600, 146,800, 147,000, 147,200, 147,400, 147,600, 147,800, 148,000, 148,200, 148,400, 148,600, 148,800, 149,000, 149,200, 149,400, 149,600, 149,800, 150,000, 150,200, 150,400, 150,600, 150,800, 151,000, 151,200, 151,400, 151,600, 151,800, 152,000, 152,200, 152,400, 152,600, 152,800, 153,000, 153,200, 153,400, 153,600, 153,800, 154,000, 154,200, 154,400, 154,600, 154,800, 155,000, 155,200, 155,400, 155,600, 155,800, 156,000, 156,200, 156,400, 156,600, 156,800, 157,000, 157,200, 157,400, 157,600, 157,800, 158,000, 158,200, 158,400, 158,600, 158,800, 159,000, 159,200, 159,400, 159,600, 159,800, 160,000, 160,200, 160,400, 160,600, 160,800, 161,000, 161,200, 161,400, 161,600, 161,800, 162,000, 162,200, 162,400, 162,600, 162,800, 163,000, 163,200, 163,400, 163,600, 163,800, 164,000, 164,200, 164,400, 164,600, 164,800, 165,000, 165,200, 165,400, 165,600, 165,800, 166,000, 166,200, 166,400, 166,600, 166,800, 167,000, 167,200, 167,400, 167,600, 167,800, 168,000, 168,200, 168,400, 168,600, 168,800, 169,000, 169,200, 169,400, 169,600, 169,800, 170,000, 170,200, 170,400, 170,600, 170,800, 171,000, 171,200, 171,400, 171,600, 171,800, 172,000, 172,200, 172,400, 172,600, 172,800, 173,000, 173,200, 173,400, 173,600, 173,800, 174,000, 174,200, 174,400, 174,600, 174,800, 175,000, 175,200, 175,400, 175,600, 175,800, 176,000, 176,200, 176,400, 176,600, 176,800, 177,000, 177,200, 177,400, 177,600, 177,800, 178,000, 178,200, 178,400, 178,600, 178,800, 179,000, 179,200, 179,400, 179,600, 179,800, 180,000, 180,200, 180,400, 180,600, 180,800, 181,000, 181,200, 181,400, 181,600, 181,800, 182,000, 182,200, 182,400, 182,600, 182,800, 183,000, 183,200, 183,400, 183,600, 183,800, 184,000, 184,200, 184,400, 184,600, 184,800, 185,000, 185,200, 185,400, 185,600, 185,800, 186,000, 186,200, 186,400, 186,600, 186,800, 187,000, 187,200, 187,400, 187,600, 187,800, 188,000, 188,200, 188,400, 188,600, 188,800, 189,000, 189,200, 189,400, 189,600, 189,800, 190,000, 190,200, 190,400, 190,600, 190,800, 191,000, 191,200, 191,400, 191,600, 191,800, 192,000, 192,200, 192,400, 192,600, 192,800, 193,000, 193,200, 193,400, 193,600, 193,800, 194,000, 194,200, 194,400, 194,600, 194,800, 195,000, 195,200, 195,400, 195,600, 195,800, 196,000, 196,200, 196,400, 196,600, 196,800, 197,000, 197,200, 197,400, 197,600, 197,800, 198,000, 198,200, 198,400, 198,600, 198,800, 199,000, 199,200, 199,400, 199,600, 199,800, 200,000, 200,200, 200,400, 200,600, 200,800, 201,000, 201,200, 201,400, 201,600, 201,800, 202,000, 202,200, 202,400, 202,600, 202,800, 203,000, 203,200, 203,400, 203,600, 203,800, 204,000, 204,200, 204,400, 204,600, 204,800, 205,000, 205,200, 205,400, 205,600, 205,800, 206,000, 206,200, 206,400, 206,600, 206,800, 207,000, 207,200, 207,400, 207,600, 207,800, 208,000, 208,200, 208,400, 208,600, 208,800, 209,000, 209,200, 209,400, 209,600, 209,800, 210,000, 210,200, 210,400, 210,600, 210,800, 211,000, 211,200, 211,400, 211,600, 211,800, 212,000, 212,200, 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234,600, 234,800, 235,000, 235,200, 235,400, 235,600, 235,800, 236,000, 236,200, 236,400, 236,600, 236,800, 237,000, 237,200, 237,400, 237,600, 237,800, 238,000, 238,200, 238,400, 238,600, 238,800, 239,000, 239,200, 239,400, 239,600, 239,800, 240,000, 240,200, 240,400, 240,600, 240,800, 241,000, 241,200, 241,400, 241,600, 241,800, 242,000, 242,200, 242,400, 242,600, 242,800, 243,000, 243,200, 243,400, 243,600, 243,800, 244,000, 244,200, 244,400, 244,600, 244,800, 245,000, 245,200, 245,400, 245,600, 245,800, 246,000, 246,200, 246,400, 246,600, 246,800, 247,000, 247,200, 247,400, 247,600, 247,800, 248,000, 248,200, 248,400, 248,600, 248,800, 249,000, 249,200, 249,400, 249,600, 249,800, 250,000, 250,200, 250,400, 250,600, 250,800, 251,000, 251,200, 251,400, 251,600, 251,800, 252,000, 252,200, 252,400, 252,600, 252,800, 253,000, 253,200, 253,400, 253,600, 253,800, 254,000, 254,200, 254,400, 254,600, 254,800, 255,000, 255,200, 255,400, 255,600, 255,800, 256,000, 256,200, 256,400, 256,600, 256,800, 257,000, 257,200, 257,400, 257,600, 257,800, 258,000, 258,200, 258,400, 258,600, 258,800, 259,000, 259,200, 259,400, 259,600, 259,800, 260,000, 260,200, 260,400, 260,600, 260,800, 261,000, 261,200, 261,400, 261,600, 261,800, 262,000, 262,200, 262,400, 262,600, 262,800, 263,000, 263,200, 263,400, 263,600, 263,800, 264,000, 264,200, 264,400, 264,600, 264,800, 265,000, 265,200, 265,400, 265,600, 265,800, 266,000, 266,200, 266,400, 266,600, 266,800, 267,000, 267,200, 267,400, 267,600, 267,800, 268,000, 268,200, 268,400, 268,600, 268,800, 269,000, 269,200, 269,400, 269,600, 269,800, 270,000, 270,200, 270,400, 270,600, 270,800, 271,000, 271,200, 271,400, 271,600, 271,800, 272,000, 272,200, 272,400, 272,600, 272,800, 273,000, 273,200, 273,400, 273,600, 273,800, 274,000, 274,200, 274,400, 274,600, 274,800, 275,000, 275,200, 275,400, 275,600, 275,800, 276,000, 276,200, 276,400, 276,600, 276,800, 277,000, 277,200, 277,400, 277,600, 277,800, 278,000, 278,200, 278,400, 278,600, 278,800, 279,000, 279,200, 279,400, 279,600, 279,800, 280,000, 280,200, 280,400, 280,600, 280,800, 281,000, 281,200, 281,400, 281,600, 281,800, 282,000, 282,200, 28

GENERAL POWER RATING FRAMEWORK CLASSIFICATION

RATED	PLEASURE		LIGHT COMMERCIAL		HEAVY COMMERCIAL	
	HP	kW	HP	kW	HP	kW
1,000, 1,000, 1	0.02	7.71	7.02	5.09	7.26	5.29
1,000, 1	0.76	0.52	7.23	5.30	0.86	0.71
1,000, 1	0.0	0.07	7.23	5.30	0.86	0.71
0.000, 1, 0.000, 1	7.02	5.09	0.86	0.71	0.87	0.86

Maximum input speed: 3000rpm for pleasure, 2000 rpm for commercial.

NOTE: These ratings refer to diesel engines. Others are expressed in kW equivalent. ICE engine engine operating speed and are measured at engine function. Ratings have been established to maximize long and faultless life of the gearbox which should not therefore be used at speeds in excess of those shown. The above ratings do not apply to PTO/PTA gearboxes with loading which shows an separate table.

PERFORMANCE CLASSIFICATION DEFINITIONS

PLEASURE: Intended covering the pleasure craft operation of full range recreational to cruise fit of use time with balance of range at 80% or below full throttle engine speed and maximum operating time ICE (average use). The use limit of PTO/PTA engine transmission according to the Application for any collaborative boat, or transport ratings from boat or in long range pleasure systems, is not approved.

LIGHT COMMERCIAL: Intended for light commercial transport applications pleasure or commercial applications that qualify for light commercial transport categories from 1000 kwh and full throttle operation is limited with those operating below power limits.

HEAVY COMMERCIAL: Usage Transmissions are recommended that an application and work should present with care for commercial applications should be stated as heavy commercial duty in class of the type including marine, agricultural, utility and work boats, tug, ferries, offshore supply boats and the manufacturer is expected to work at full permitted engine speed. The power ratings of the engine must be shown and must be within the gearbox's performance class combination.

REPORT ANY NOTE

(1) Information for the engine, transmission mode, selection rate and proper use is to be clearly marked so that the engine customer is not speed appropriate to the relevant service classification without flowing.

(2) It is also necessary to ensure the technical compatibility of the complete propulsion system from engine through to propeller, drive (depending on the use) and in particular, suitability of low speed operation, and maximum shaft horsepower through as well as in transmission component.

Usage Transmissions are provided all possible information and assistance to help find solutions to potential technical problems, but it is the ultimate responsibility of the person operating the drive and the equipment to ensure that they are technically compatible.

WEARING IN PRESSURE: These pressure ICE apply to pleasure craft with cooling water, for other specific applications are provided separately.

1,000, 1, 1,000, 1 = Maximum = 1000 kPa (100 kPa), Maximum = 100 kPa (100 kPa)

0.000, 1 = Minimum = 0.000 kPa (0.000 kPa), Maximum = 0.000 kPa (0.000 kPa)

OIL TEMPERATURE: The normal operating temperature of the oil should be in the 80°C - 100°C range, and should not be permitted to exceed 90°C. Actual usage is necessary to ensure that correct operating temperatures are maintained, and that 100 - 150°C maximum are provided as the water tank or other to be fitted.

The normal operating required depends on number of factors including the operational horsepower, operating speed (RPM), and water temperature and ambient temperature.

PROPELLER THEORY: Each shaft and water flow is carried by the output shaft (the bearing which is of adequate capacity for an factory approved rating).

PROPELLER FREE WHEELING: The PTO/PTA is provided with a free wheeling mechanism with the gearbox in neutral. It is used to allow the engine to be a propeller free wheeling with the engine shut down, eg. in multi engine installations or in motor boats.

APPENDIX B: WEIGHTS AND VOLUMES CAPACITIES

OIL WEIGHT			OIL CAPACITY		
FRANCO	75% (100)	0.8841	27.0 litres	14.0 gallons	also see comment
FRANCO	80% (100)	0.8841	26.0 litres	14.0 gallons	required for 70%
FRANCO	85% (100)	0.8841	25.0 litres	13.25 gallons	for working
FRANCO	90% (100)	0.8841	24.0 litres	12.5 gallons	stock

ADAPTORS FOR FRANK

PART NUMBER	DESCRIPTION	WEIGHT	
		kg	lb
MT 101 GA	S&S adaptor - 2nd adaptor	10.0	22.0
MT 102 GA	S&S adaptor - 2nd adaptor	11.0	24.2
MT 103 GA	S&S adaptor - Common, rear bearing outer	10.0	22.0
MT 104 GA	S&S adaptor - Common, rear bearing outer	10.0	22.0
MT 105 GA	S&S adaptor - Common, rear bearing outer	10.0	22.0
MT 106 GA	S&S adaptor - S. R., rear bearing outer	10.0	22.0
MT 107 GA	S&S adaptor	10.0	22.0
MT 108 GA	S&S adaptor - not suitable for 3.000 1 wheel	10.0	22.0

FLANGE & HOLE DIMENSIONS FOR FRANK

PART NO.	OUTSIDE DIAMETER	MOUNTING-HOLE SYSTEM		REMARKS
		NO.	DIAMETER	
MT 100	12.000 (12.000)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 101	12.000 (12.000)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 102	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 103	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 104	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 105	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 106	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 107	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
MT 108	14.250 (14.250)	4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)
		4	Ø 12.000 (Ø 12.000)	FRANK (FRANCO)

OTHER ACCESSORIES FOR FRANK

PART NUMBER	DESCRIPTION	WEIGHT	
		kg	lb
MT 109	Oil cooler - Franconia engine up to 1000cc (FRANCO), with engine up to 1000 cc	1.00	2.20
MT 110	Oil cooler - Franconia engine over 1000 cc (FRANCO), engine over 1000 cc	1.50	3.30
MT 111	Oil cooler plate 1 up 1	0.04	1.00
MT 112	Oil cooler mounting bracket	0.20	0.50
MT 113	Temperature-sensing 1 plate board 1	1.00	2.20
MT 114	Temperature-sensing	2.00	4.40
MT 115	Oil pressure gauge 1 direct mounting	0.50	1.10
MT 116	Leak-off for fuel 10 (friction pump)	0.05	0.10
MT 117	Special oil-air separator	0.04	0.10

OUTLINE DIMENSIONS - FRAMES



Dimension	1000		1500		2000	
	mm	inches	mm	inches	mm	inches
FRONT VIEW	1000	39.37	1500	59.06	2000	78.74
SIDE VIEW	1000	39.37	1500	59.06	2000	78.74
DEPTH	1000	39.37	1500	59.06	2000	78.74

Installation angle

The maximum face area air conditioner angle installation is not to 15°



Dimension	1000		1500		2000	
	mm	inches	mm	inches	mm	inches
FRONT VIEW	1000	39.37	1500	59.06	2000	78.74
SIDE VIEW	1000	39.37	1500	59.06	2000	78.74



Important note

After installation please check the correct position of the front panel in place. Because in the process of installation, the front panel may be damaged or deformed, please check the front panel in place. If the front panel is damaged or deformed, please contact the manufacturer for replacement.

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