











TECHNICAL BULLETIN



- Dual Mass Flywheel
- Volant bimasse
- Zweimassenschwungrad
- Volante bimasa
- Volano bimassa
- Dubbelmassavliegwiel
- Koło zamachowe dwumasowe
- Volante bi-massa

			
English	French	German	Spanish
Free Play Angle (Maximum acceptable angle)	Jeu angulaire (Angle maxi. acceptable)	Freispielwinkel (Maximal zulässiger Winkel)	Ángulo de juego libre (Ángulo máximo aceptable)
Maximum Ring gear number of teeth	Nb de dents maxi. acceptable	Maximale Anzahl der Zähne des Zahnkranzes	Número máximo de dientes de la corona dentada
TILT Maximum permissible value	Jeu rotulant ou TILT (Valeur maxi. acceptable)	Kippwinkel (Maximal zulässiger Wert)	Inclinación (Valor máximo permitido)
Radius for Tilt Measurement	Rayon de mesure du TILT	Radius zur Kippwinkelmessung	Radio para la medición de inclinación
Load for Tilt Measurement (N)	Charge pour la mesure du TILT (N)	Last für Kippwinkelmessung (N)	Carga para medición de inclinación (N)
Crankshaft Bolts Tightening Torque	Couple de serrage des vis de vilebrequin	Anzugsdrehmoment der Kurbelwellenbolzen	Par de apriete de los tornillos del cigüeñal

			
Italian	Dutch	Polish	Portuguese
Angolo di gioco (Angolo massimo accettabile)	Vrije speling hoek (Maximaal toelaatbare hoek)	Kąt luzu (Maksymalny dopuszczalny kąt)	Ângulo de folga (Ângulo máximo aceitável)
Numero massimo di denti della corona dentata	Maximale aantal tanden van het tandkranz	Maksymalna liczba zębów wieńca zębatego	Número máximo de dentes da coroa dentada
Inclinazione (Valore massimo consentito)	Kanteling (Maximaal toelaatbare waarde)	Przechył (Maximal zulässiger Wert)	Inclinação (Valor máximo permitido)
Raggio per la misurazione dell'inclinazione	Straal voor het meten van kanteling	Promień do pomiaru przechyłu	Raio para medição de inclinação
Carico per la misurazione dell'inclinazione (N)	Last voor kantelmeting (N)	Obciążenie do pomiaru przechyłu (N)	Carga para medição de inclinação (N)
Coppia di serraggio bulloni albero motore	Aanhaalmoment van de krukasbouten	Moment dokręcania śrub wału korbowego	Torque de aperto dos parafusos do virabrequim

VS Reference	Type	Free Play Angle (JI) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
836011	DMF	16	5	1.5	130	100	30Nm+55°
836012	DMF	21.5	7	1.0	124	100	30Nm+55°
836016	DMF	16	5	1.5	124	100	30Nm+55°
836017	DMF	16	5	1.5	124	100	30Nm+55°
836018	DMF	21.5	7	1.5	144.5	100	N/A
836034	DMF	21.5	7	1.5	124	100	30Nm+55°
836037	DMF	20.5	7	3.0	130	100	30Nm+55°
836038	DMF	21.5	9	3.0	130	100	85Nm+35°
836041	DMF	21.5	7	3.0	130	100	30Nm+55°
836045	DMF	21.5	7	3.0	130	100	30Nm+55°
836046	DMF	21.5	7	3.0	130	100	30Nm+55°
836047	DMF	21.5	8	3.0	127	100	30Nm+90°
836055	FULLPACK™	16	5	1.5	130	100	30Nm+55°
836056	FULLPACK™	16	5	1.5	130	100	30Nm+55°
836057	DMF	21.5	8	3.0	127	100	45Nm+40°
836082	DMF	21.5	9	2.5	130	100	45Nm+95°
836087	DMF-DWC	21.5	9	N/A	N/A	N/A	45Nm+95°
836088	DMF	21.5	7	1.5	124	100	30Nm+55°
836090	DMF	21.5	7	3.0	130	100	30Nm+55°
836091	DMF	21.5	7	3.0	130	100	30Nm+55°
836097	FULLPACK™	21.5	8	3.0	127	100	30Nm+90°
836101	FULLPACK™	21.5	9	3.0	130	100	85Nm+35°
836105	DMF	21.5	9	3.0	119	100	30Nm+90°
836120	DMF	21	8	1.5	130	100	60 Nm + 50°
836151	DMF-DWC	21.5	9	N/A	N/A	N/A	45Nm+95°
836152	DMF-DWC	21.5	9	N/A	N/A	N/A	45Nm+95°
836161	DMF	21.5	8	3.0	122	100	30Nm+90°
836162	FULLPACK™	21.5	8	3.0	122	100	30Nm+90°
836172	DMF	21.5	9	2.5	134	100	60Nm+10°
836173	DMF	21.5	8	3.0	130	50	30Nm+90°
836174	DMF	21.5	9	4.0	134	50	50 Nm + 15°
836175	DMF	21.5	9	4.0	130	50	50 Nm + 15°
836222	DMF	21	7	1.5	129	100	30 Nm + 90°
836223	DMF	21	7	1.5	130	100	48 Nm
836224	DMF	21	8	1.5	131	100	60 Nm + 50°

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
836225	DMF	21	8	1.5	131	100	60 Nm + 50°
836240	DMF	21	8	1.5	131	100	60 Nm + 50°
836242	DMF	16	6	1.5	125	100	60 Nm + 50°
836243	DMF	21	7	1.5	130	100	105 Nm
836244	DMF	21	7	1.5	125	100	105 Nm
836245	DMF	21	7	1.5	125	100	105 Nm
836246	DMF	21	8	1.5	131	100	60 Nm + 50°
836247	DMF	21	7	1.5	130	100	105 Nm
836248	DMF	21	7	1.5	125	100	105 Nm
836249	DMF	21	8	1.5	130	100	60 Nm + 50°
836250	DMF	23	9	1.5	133	100	60 Nm + 50°
836251	DMF	21	8	1.5	131	100	60 Nm + 50°
836252	DMF	21	8	1.5	133	100	60 Nm + 50°
836253	DMF	26.5	9	2.5	139	50	128Nm
836254	DMF	26.5	9	2.5	139	50	128Nm
836255	DMF	26.5	9	2.5	145	50	128Nm
836256	DMF	21.5	7	3.0	130	100	30Nm+55°
836257	DMF	21.5	9	2.5	130	100	45Nm+95°
836258	DMF	21.5	9	4.0	134	50	N/A
836267	DMF	21	7	1.5	130	100	105 Nm
836268	DMF	21	7	1.5	130	100	105 Nm
836274	DMF	21	7	3.0	130	100	105 Nm
836275	DMF	21	8	1.3	122	100	30 Nm + 90°
836278	DMF	21	8	1.5	129	100	60 Nm + 50°
836279	DMF	21	8	1.5	130	100	60 Nm + 50°
836281	DMF	21	7	1.5	130	100	105 Nm
836286	DMF	21	8	1.5	130	100	60 Nm + 50°
836297	DMF	21	8	1.5	133	100	60 Nm + 50°
836298	DMF	21	7	1.5	125	100	105 Nm
836308	DMF	21	8	1.3	119	100	80 Nm
836309	DMF	21	8	1.5	130	100	70 Nm
836316	DMF	21	8	1.5	130	100	60 Nm + 50°
836318	DMF	21	8	2.5	130	100	110 Nm
836319	DMF	26	10	2.5	130	100	110 Nm
836320	DMF	21	8	2.5	130	100	110 Nm

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
836321	DMF	21	8	2.5	130	100	110 Nm
836324	DMF	21	8	2.5	130	100	110 Nm
836325	DMF	23	8	1.5	130	100	105 Nm
836328	DMF	21	6	1.5	125	100	70 Nm
836334	DMF	26.5	9	2.5	145	50	128Nm
836335	DMF	26.5	9	2.5	145	50	128Nm
836336	DMF	26.5	9	2.5	145	50	128Nm
836337	DMF-DWC	22.5	9	N/A	N/A	N/A	45Nm+95°
836338	DMF	21.5	9	45/14.0	130	50	45Nm+90°
836339	DMF-DWC	15.5	6	N/A	N/A	N/A	45Nm+95°
836340	DMF-DWC	21.5	9	N/A	N/A	N/A	45Nm+95°
836341	DMF	31.3	12	3.0	127	100	20Nm+50°
836342	DMF	23	8	1.5	131	100	60 Nm + 50°
836347	DMF	23	9	1.5	131	100	60 Nm + 50°
836348	DMF	22	7	3.0	116	100	44 Nm
836349	DMF	22	7	3.0	116	100	44 Nm
836350	DMF	22	7	3.0	116	100	44 Nm
836356	DMF	21.5	8	3.0	127	50	60 Nm
836357	DMF	21.5	8	3.0	127	50	60 Nm
836358	DMF	21.5	9	3.0	127	50	65 Nm
836359	DMF	21.5	9	4.0	130.0	50	N/A
836360	DMF	21.5	8	3.0	127.0	100	20Nm+50°
836361	DMF-DWC	22.5	9	N/A	N/A	N/A	N/A
836362	DMF	26.5	9	2.5	139	50	128Nm
836367	DMF	21	8	2.5	125	100	70 Nm
836376	DMF	22.5	9	3.0	130.0	50	45Nm+95°
836377	DMF-DWC	21.5	9	N/A	N/A	N/A	45Nm+95°
836380	DMF	25	8	2.5	130	100	30Nm+55°
836381	DMF	21.5	7	3.0	130	100	30Nm+55°
836386	DMF	21.5	7	3.0	130	100	30Nm+55°
836387	DMF	26.4	10	3.0	118	50	30 Nm + 50°
836388	DMF	21	8	1.5	131	100	120 Nm
836390	DMF	26	10	1.5	131	100	120 Nm
836426	DMF-DWC	26.5	9	N/A	N/A	N/A	45Nm+40°
836427	DMF-DWC	26.5	9	N/A	N/A	N/A	45Nm+40°

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
836460	DMF	26.6	9	2.5	139	50	70 Nm
836462	DMF-DWC	21.5	8	N/A	N/A	N/A	45Nm+90°
836463	DMF-DWC	21.5	N/A	N/A	N/A	N/A	45Nm+90°
836465	DMF	21	8	1.5	133	100	60 Nm + 50°
836466	DMF	21	8	1.5	131	100	120 Nm
836531	DMF	21	8	1.5	131	100	60 Nm + 50°
836532	DMF	21	8	1.3	120	100	55 - 60 Nm
836533	DMF	21	8	1.5	129	100	55 - 60 Nm
836534	DMF	21	7	1.5	130	100	60 Nm + 50°
836535	DMF	21	8	1.3	122	100	48 Nm
836538	DMF	21	8	1.5	129	100	55 - 60 Nm
836539	DMF	21	8	1.5	129	100	44 ± 4 Nm
836540	DMF	16	6	1.5	125	100	60 Nm + 50°
836541	DMF	21	8	1.5	131	100	60 Nm + 50°
836542	DMF	21	8	1.5	131	100	60 Nm + 50°
836543	DMF	21	8	1.5	131	100	60 Nm + 50°
836544	DMF	21	8	1.5	131	100	60 Nm + 50°
836545	DMF	21	8	1.5	131	100	60 Nm + 50°
836546	DMF	21	8	1.5	131	100	60 Nm + 50°
836547	DMF	21	8	1.5	131	100	60 Nm + 50°
836548	DMF	21	8	1.5	131	100	60 Nm + 50°
836549	DMF	21	8	1.5	125	100	85 Nm + 45°
836550	DMF	21	7	1.5	125	100	60 Nm + 50°
836551	DMF	16	6	1.5	125	100	60 Nm + 50°
836552	DMF	21	8	1.5	131	100	60 Nm + 90°
836553	DMF	21	8	1.3	120	100	44 ± 4 Nm
836554	DMF	21	7	1.5	133	100	60 Nm + 50°
836555	DMF	21	8	1.5	133	100	60 Nm + 50°
836556	DMF	21	7	1.5	125	100	105 Nm
836557	DMF	21	7	1.5	130	100	105 Nm
836558	DMF	21	7	1.5	130	100	105 Nm
836559	DMF	21	7	1.5	130	100	105 Nm
836560	DMF	21	7	1.5	125	100	105 Nm
836561	DMF	16	6	1.5	125	100	60 Nm + 50°
836563	DMF	23	6	1.5	135	100	70 Nm

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
836564	DMF	21	8	1.5	130	100	60 Nm + 50°
836565	DMF	21	7	1.5	130	100	60 Nm + 50°
836566	DMF	21	8	1.5	128	100	60 Nm + 50°
836567	DMF	21	8	1.5	133	100	60 Nm + 50°
836570	DMF	20	7	1.5	133	100	60 Nm + 50°
836571	DMF	23	9	1.5	133	100	60 Nm + 50°
836573	DMF	23	9	1.5	130	100	60 Nm + 50°
836576	DMF	21	8	1.5	129	100	40 Nm + 50°
836581	DMF	21	8	1.5	131	100	60 Nm + 50°
836587	DMF	21	8	1.5	131	100	60 Nm + 50°
836588	DMF	21	7	1.5	125	100	60 Nm + 50°
836589	DMF	21	7	3.0	130	100	105 Nm
836590	DMF	21	7	3.0	130	100	105 Nm
836591	DMF	21	8	1.5	133	100	60 Nm + 50°
836592	DMF	21	7	1.5	130	100	105 Nm
836595	DMF	21	8	1.5	129	100	60 Nm + 50°
836745	DMF	21	8	1.5	130	100	100 Nm
836747	DMF-DWC	21.5	8	N/A	N/A	N/A	45Nm+90°
836752	DMF	26	10	2.5	133	100	45 Nm + 90°
836784	DMF-DWC	22.5	9	N/A	N/A	N/A	45Nm+40°
836785	DMF-DWC	22.5	9	N/A	N/A	N/A	45Nm+40°
836786	DMF-DWC	22.5	9	N/A	N/A	N/A	45Nm+40°
836789	DMF	23	9	1.5	131	100	60 Nm + 50°
836825	DMF-DWC	21	8	N/A	N/A	100	60 Nm + 50°
836826	DMF-DWC	21	8	N/A	N/A	100	60 Nm + 50°
836827	DMF-DWC	21	8	N/A	N/A	100	60 Nm + 50°
836828	DMF	20	6	3.0	130	100	105 Nm
836866	DMF-DWC	21	8	N/A	N/A	100	60 Nm + 50°
837001	FULLPACK™	21.5	7	1.5	124	100	30Nm+55°
837003	FULLPACK™	16	6	1.5	125	100	60 Nm + 50°
837004	FULLPACK™	21.5	7	1.5	124	100	30Nm+55°
837005	FULLPACK™	21.5	7	1.5	124	100	30Nm+55°
837010	FULLPACK™	20.5	7	3.0	130	100	30Nm+55°
837011	FULLPACK™	20.5	7	3.0	130	100	30Nm+55°
837017	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837019	FULLPACK™	20	7	1.5	130	100	60 Nm + 50°
837038	FULLPACK™	16	5	1.5	124	100	30Nm+55°
837039	FULLPACK™	16	5	1.5	124	100	30Nm+55°
837041	FULLPACK™	16	6	1.5	125	100	60 Nm + 50°
837045	FULLPACK™	21	8	1.3	122	100	48 Nm
837046	FULLPACK™	21	7	1.5	133	100	60 Nm + 50°
837047	FULLPACK™	21	8	1.5	133	100	60 Nm + 50°
837048	FULLPACK™	16	6	1.5	125	100	60 Nm + 50°
837049	FULLPACK™	21	7	1.5	130	100	105 Nm
837050	FULLPACK™	21	7	1.5	130	100	105 Nm
837053	FULLPACK™	21	8	1.5	131	100	60 Nm + 50°
837055	FULLPACK™	16	6	1.5	125	100	60 Nm + 50°
837057	FULLPACK™	20	7	1.5	133	100	60 Nm + 50°
837059	FULLPACK™	21	7	1.5	125	100	105 Nm
837060	FULLPACK™	20	7	1.5	130	100	60 Nm + 50°
837072	FULLPACK™	21.5	8	3.0	127	100	45Nm+40°
837073	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837074	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837075	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837081	FULLPACK™	26.4	10	3.0	127	50	50 Nm
837085	FULLPACK™	21	7	1.5	130	100	105 Nm
837086	FULLPACK™	21	7	3.0	130	100	105 Nm
837087	FULLPACK™	21	7	1.5	130	100	105 Nm
837088	FULLPACK™	21	7	3.0	130	100	105 Nm
837090	FULLPACK™	21	7	1.5	130	100	105 Nm
837091	FULLPACK™	21	7	1.5	130	100	105 Nm
837093	FULLPACK™	21	7	3.0	130	100	105 Nm
837094	FULLPACK™	21	7	1.5	130	100	105 Nm
837095	FULLPACK™	21	7	1.5	130	100	105 Nm
837096	FULLPACK™	21	8	1.3	120	100	60 Nm + 50°
837102	FULLPACK™	21	7	1.5	130	100	105 Nm
837103	FULLPACK™	21	7	1.5	125	100	105 Nm
837104	FULLPACK™	21	8	1.5	130	100	60 Nm + 50°
837106	FULLPACK™	21.5	8	3.0	130.0	50	30Nm+90°
837108	FULLPACK™	21	7	1.5	125	100	105 Nm

VS Reference	Type	Free Play Angle (JI) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837109	FULLPACK™	21	7	3.0	130	100	105 Nm
837110	FULLPACK™	21	7	1.5	125	100	105 Nm
837111	FULLPACK™	21	7	1.5	125	100	105 Nm
837112	FULLPACK™	21	8	1.3	120	100	60 Nm + 50°
837114	FULLPACK™	21	7	1.5	125	100	105 Nm
837115	FULLPACK™	21	7	1.5	125	100	60 Nm + 50°
837119	FULLPACK™	21.5	8	3.0	127	50	50 Nm
837123	FULLPACK™	21.5	8	3.0	127	50	60 Nm
837124	FULLPACK™	21	6	1.5	125	100	70 Nm
837125	FULLPACK™	21	8	1.5	130	100	30 Nm + 90°
837127	FULLPACK™	21	7	1.5	130	100	105 Nm
837128	FULLPACK™	22	7	3.0	116	100	44 Nm
837132	FULLPACK™	26.6	9	2.5	139	50	70 Nm
837134	FULLPACK™	21	7	3.0	130	100	105 Nm
837141	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837148	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837149	FULLPACK™	21	7	1.5	130	100	105 Nm
837154	FULLPACK™	21	8	1.5	131	100	120 Nm
837159	FULLPACK™	21	8	1.5	131	100	120 Nm
837161	FULLPACK™	26	10	1.5	131	100	120 Nm
837162	FULLPACK™	21.5	8	3.0	127	50	60 Nm
837173	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837212	FULLPACK™	21	8	1.3	122	100	30 Nm + 90°
837217	FULLPACK™	21	8	3.0	120	100	60 Nm + 50°
837283	FULLPACK™	21	8	1.5	131	100	120 Nm
837300	FULLPACK™	16	5	1.5	130	100	30Nm+55°
837301	FULLPACK™	16	5	1.5	130	100	30Nm+55°
837302	FULLPACK™	21.5	9	3.0	130	100	85Nm+35°
837304	FULLPACK™	21	8	1.5	131	100	60 Nm + 50°
837305	FULLPACK™	26.4	9	3.0	127	50	60 Nm
837314	FULLPACK™	17	7	2.5	130	100	45 Nm + 90°
837315	FULLPACK™	21	8	1.3	120	100	55 - 60 Nm
837318	FULLPACK™	21	8	1.5	129	100	55 - 60 Nm
837320	FULLPACK™	21	7	1.5	130	100	48 Nm
837321	FULLPACK™	21	8	1.5	131	100	60 Nm + 50°

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837322	FULLPACK	21.5	8	3.0	127	100	30Nm+90°
837325	FULLPACK	21	8	1.5	129	100	44 ± 4 Nm
837341	FULLPACK	21	8	1.5	129	100	44 ± 4 Nm
837342	FULLPACK	21.5	8	3.0	127	50	85 Nm
837344	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837345	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837346	FULLPACK	21.5	8	3.0	127	50	85 Nm
837347	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837348	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837352	FULLPACK	21.5	8	3.0	127	50	85 Nm
837359	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837361	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837394	FULLPACK	21.5	8	3.0	127	100	30Nm+90°
837396	FULLPACK	21.5	9	2.5	134	100	60Nm+10°
837397	FULLPACK	21.5	8	3.0	127	50	85 Nm
837398	FULLPACK	21.5	7	1.5	124	100	30Nm+55°
837399	FULLPACK	21.5	7	1.5	124	100	30Nm+55°
837402	FULLPACK	21	8	1.3	120	100	55 - 60 Nm
837404	FULLPACK	21	7	1.5	130	100	48 Nm
837405	FULLPACK	21.5	8	3.0	127	50	85 Nm
837406	FULLPACK	21	8	1.5	129	100	55 - 60 Nm
837407	FULLPACK	21	8	1.5	129	100	55 - 60 Nm
837408	FULLPACK	21	8	1.5	130	100	85 Nm + 45°
837409	FULLPACK	21	8	1.5	131	100	30 Nm + 90°
837415	FULLPACK	21	8	1.5	129	100	60 Nm + 50°
837424	FULLPACK	14	5	1.5	133	100	105 Nm
837425	FULLPACK	14	5	1.5	133	100	105 Nm
837427	FULLPACK	14	5	1.5	133	100	105 Nm
837431	FULLPACK	21.5	9	2.5	134	100	60Nm+10°
837432	FULLPACK	21.5	9	3.0	127	50	65 Nm
837435	FULLPACK	21	8	1.5	133	100	60 Nm + 50°
837436	FULLPACK	21	8	1.5	125	100	85 Nm + 45°
837437	FULLPACK	21	8	1.5	125	100	85 Nm + 45°
837438	FULLPACK	26.4	9	3.0	127	50	60 Nm
837440	FULLPACK	26.4	9	3.0	127	50	60 Nm

VS Reference	Type	Free Play Angle (JI) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837441	FULLPACK	20	6	3.0	130	100	105 Nm
837442	FULLPACK	20	6	2.5	130	100	160 Nm
837443	FULLPACK	20	6	2.5	134	100	160 Nm
837444	FULLPACK	23	7	2.5	130	100	160 Nm
837445	FULLPACK	23	7	2.5	134	100	105 Nm
837447	FULLPACK	21	7	1.5	130	100	48 Nm
837454	FULLPACK	21.5	7	3.0	127	50	50 Nm
837456	FULLPACK	15.5	7	3.0	130	100	30Nm+55°
837457	FULLPACK	20.5	7	3.0	130	100	30Nm+55°
837458	FULLPACK	21	8	1.5	133	100	60 Nm + 50°
837459	FULLPACK	21.5	8	3.0	127	50	60 Nm
837460	FULLPACK	21.5	8	3.0	127	50	60 Nm
837461	FULLPACK	23	8	1.5	131	100	60 Nm + 50°
837462	FULLPACK	21.5	9	3.0	127	50	65 Nm
837467	FULLPACK	26.4	10	3.0	127	50	60 Nm
837469	FULLPACK	23	9	1.5	131	100	60 Nm + 50°
837470	FULLPACK	22	7	3.0	116	100	44 Nm
837471	FULLPACK	22	7	3.0	116	100	44 Nm
837473	FULLPACK	22	7	3.0	116	100	44 Nm
837474	FULLPACK	22	7	3.0	116	100	44 Nm
837475	FULLPACK	22	7	3.0	116	100	44 Nm
837476	FULLPACK	22	7	3.0	116	100	44 Nm
837477	FULLPACK	22	7	3.0	116	100	44 Nm
837479	FULLPACK	26.5	9	2.1	139	50	128Nm
837480	FULLPACK	26.5	9	2.5	139	50	128Nm
837481	FULLPACK	26.5	9	2.5	145	50	128Nm
837487	FULLPACK	21	8	1.5	133	100	60 Nm + 50°
837490	FULLPACK	21	8	1.3	120	100	55 - 60 Nm
837491	FULLPACK	21	8	1.3	120	100	55 - 60 Nm
837492	FULLPACK	21	8	1.5	129	100	40 Nm + 50°
837493	FULLPACK	21	8	1.5	130	100	60 Nm + 50°
837497	FULLPACK	21.5	8	3.0	127	50	85 Nm
837498	FULLPACK	21.5	8	3.0	127	100	30Nm+90°
837499	FULLPACK	21	8	3.0	120	100	60 Nm + 50°
837500	FULLPACK	21	8	2.5	125	100	70 Nm

VS Reference	Type	Free Play Angle (J1) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837501	FULLPACK	21	8	2.5	125	100	70 Nm
837502	FULLPACK	21	8	1.5	130	100	60 Nm + 50°
837503	FULLPACK	21	8	1.5	130	100	105 Nm
837504	FULLPACK	23	9	1.5	133	100	60 Nm + 50°
837505	FULLPACK	21	8	2.5	130	100	110 Nm
837522	FULLPACK	26.4	10	3.0	127	50	60 Nm
837529	FULLPACK	26	10	2.5	133	100	45 Nm + 90°
837534	FULLPACK	22	7	3.0	116	100	44 Nm
837535	FULLPACK	22	7	3.0	116	100	44 Nm
837538	FULLPACK	21	8	1.5	125	100	80 Nm
837540	FULLPACK	21	8	1.5	130	100	100 Nm
837541	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837542	FULLPACK	21	8	1.5	130	100	70 Nm
837544	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837545	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837546	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837547	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837548	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837549	FULLPACK	21	8	1.5	133	100	60 Nm + 50°
837550	FULLPACK	17	7	2.5	130	100	45 Nm + 90°
837551	FULLPACK	23	7	1.5	130	100	60 Nm + 50°
837552	FULLPACK	23	7	1.5	133	100	60 Nm + 50°
837553	FULLPACK	23	9	1.5	133	100	60 Nm + 50°
837558	FULLPACK	26.4	10	3.0	118	50	30 Nm + 50°
837559	FULLPACK	26.4	10	3.0	118	50	30 Nm + 50°
837560	FULLPACK	26	10	2.5	130	100	100 Nm
837561	FULLPACK	26	10	2.5	130	100	100 Nm
837562	FULLPACK	26	10	2.5	130	100	100 Nm
837563	FULLPACK	25.4	10	3.0	118	50	30 Nm + 50°
837564	FULLPACK	25.4	10	3.0	118	50	30 Nm + 50°
837565	FULLPACK	21.5	8	3.0	127	50	85 Nm
837566	FULLPACK	21	8	1.5	128	100	60 Nm + 50°
837568	FULLPACK	14	5	1.5	133	100	105 Nm
837571	FULLPACK	26.5	9	2.1	139	50	128Nm
837572	FULLPACK	26.5	9	2.2	145	50	128Nm

VS Reference	Type	Free Play Angle (JI) Maximum acceptable angle	Maximum Ring gear number of teeth	TILT Maximum permissible value	Radius for Tilt Measurement	Load for Tilt Measurement (N)	Crankshaft bolts tightening Torque
837573	FULLPACK	26.5	9	2.2	145	50	128Nm
837574	FULLPACK	21.5	7	3.0	130	100	30Nm+55°
837575	FULLPACK	23	9	1.5	131	100	60 Nm + 50°
837577	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837578	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837579	FULLPACK	17	7	2.5	130	100	45 Nm + 90°
837580	FULLPACK	26.4	10	3.0	118	50	30 Nm + 50°
837581	FULLPACK	16	5	1.5	130	100	30Nm+55°
837582	FULLPACK	17	7	2.5	130	100	45 Nm + 90°
837583	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837586	FULLPACK	21.5	9	2.5	130	100	45Nm+95°
837587	FULLPACK	21.5	9	2.5	130	100	45Nm+95°
837588	FULLPACK	21.5	7	3.0	130	100	30Nm+55°
837597	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837600	FULLPACK	25	8	2.5	130	100	30Nm+55°
837603	FULLPACK	25.4	8	3.0	127	50	50 Nm+90°
837604	FULLPACK	21	8	1.5	130	100	65 Nm + 50°
837605	FULLPACK	21	7	1.5	129	100	30 Nm + 90°
837617	FULLPACK	22	7	3.0	116	100	44 Nm
837700	FULLPACK	25	8	2.5	130	100	30Nm+55°
837797	FULLPACK	21.5	8	3.0	127	50	85 Nm
837118	FULLPACK	26	9	1.5	130	100	105 Nm
836437	DMF	26	9	1.5	130	100	105 Nm
837185	FULLPACK	21	8	1.5	124	100	60 Nm + 50°
837730	FULLPACK	26	10	2.5	133	100	45 Nm + 90°
837706	FULLPACK	21	8	2.5	130	100	110 Nm
837213	FULLPACK	26	10	1.5	131	100	120 Nm
836719	DMF	14	5	1.5	146	100	105 Nm
837610	FULLPACK	21	8	1.5	131	100	60 Nm + 50°
837629	FULLPACK	21	8	4.0	130	50	50 Nm + 15°
837630	FULLPACK	21	8	4.0	134	50	50 Nm + 15°

The Valeo logo is centered in the image. It features the word "Valeo" in a bold, white, sans-serif font. A white swoosh underline is positioned beneath the letters "o" and "e". The background is a dark blue, semi-transparent technical drawing of a car seat, showing the headrest, backrest, and seat base with various dashed lines indicating stitching and contours.

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