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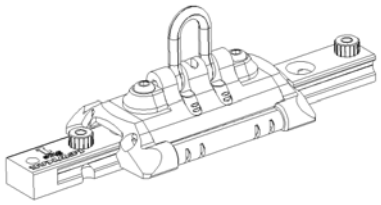
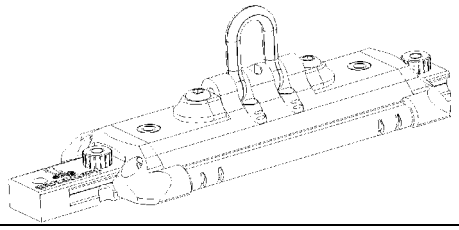
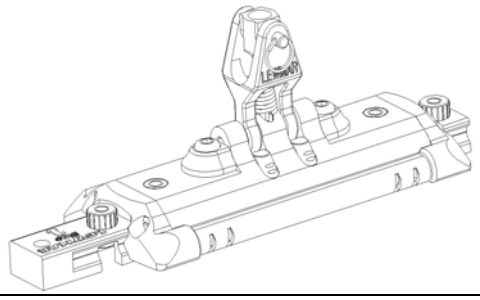
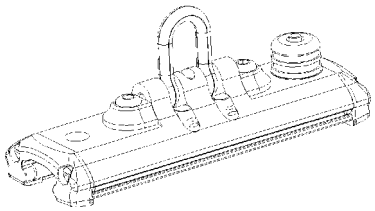
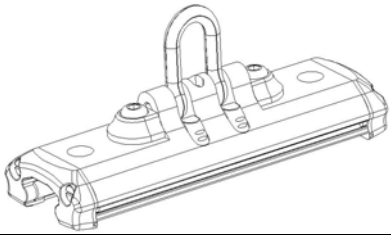
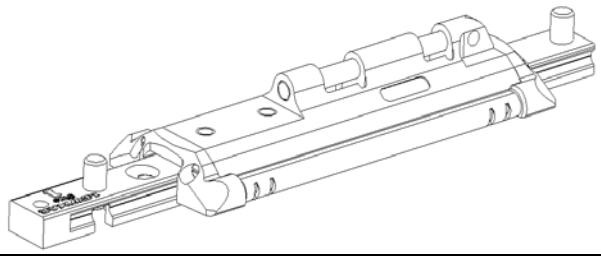
NTR Traveller Range

Spares

&

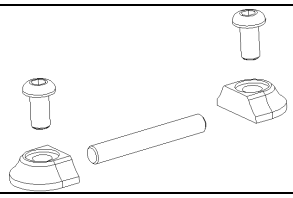
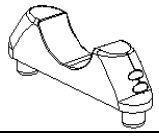
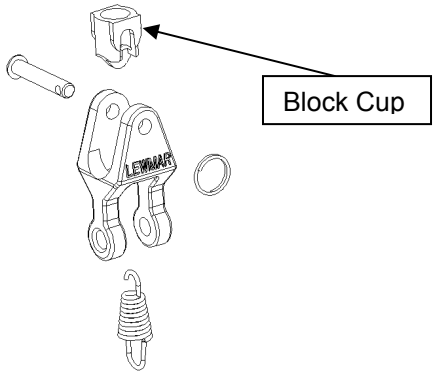
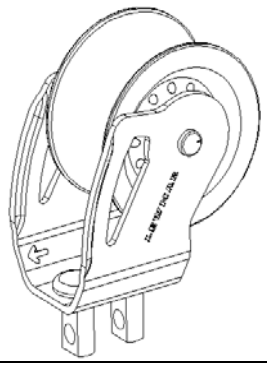
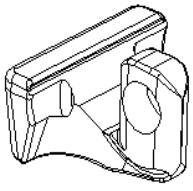
Data

TRAVELER RANGE BUILD BLOCKS – CARS

Short Car – Torlon balls – Shackle 29421300 SZ1 SHORTCAR TB SHKL 29422300 SZ2 SHORTCAR TB SHKL 29423301 SZ3 SHORTCAR TB SHKL	
Standard Car – Torlon Balls - Shackle 29431300 SZ1 CAR TB SHKL 29432300 SZ2 CAR TB SHKL 29433300 SZ3 CAR TB SHKL Size 1 Car, Shackle, Torlon Balls	
Standard Car – Torlon Balls - Upstand 29431400 SZ1 CAR TB UPS 29432400 SZ2 CAR TB UPS 29433400 SZ3 CAR TB UPS	
Standard Car – Slide Rod – Shackle – Plunger 29441723 SZ1 CAR SR SHKL PLUNGER 29442723 SZ2 CAR SR SHKL PLUNGER Sz3 does exist but not without stirrup	
Standard Car – Slide Rod - Shackle 29431500 SZ1 CAR SR SHKL 29432500 SZ2 CAR SR SHKL Sz3 does not exist	
28004474 This car does not use pivot covers	

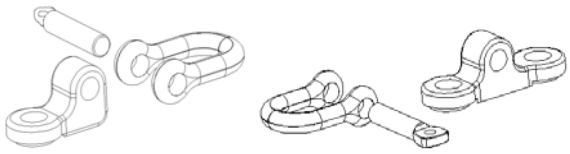
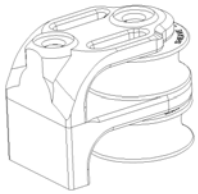
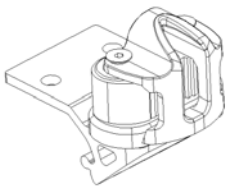
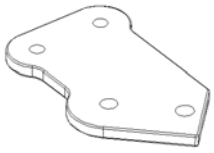
TRAVELER RANGE BUILD BLOCKS

PIVOT COVERS, UPSTANDS, SHACKLES, GENOA STIRUUPS

Rod & Pivot End Cover Kit	
Upstand Buffers 25003492 SZ1 25003494 SZ2 25003494 SZ3 (same as size 2)	
Car Shackle 25000007 6MM CAR SHACKLE – used on Sz1 25000047 8MM SHACKLE – used on Sz2 & 3	
Upstand Kit 29171024 SZ1 UPSTAND CONVERSION 29172024 SZ2 UPSTAND CONVERSION 29173024 SZ3 UPSTAND CONVERSION **Block Cup Only** 25000027 SZ1 M/SHEET BLOCK CUP 25000053 SZ2 M/SHEET BLOCK CUP 25000115 SZ3 M/SHEET BLOCK CUP **Spring Only** 25000016 SZ1 UPSTAND SPRING 25000057 SZ2 UPSTAND SPRING 25000116 SZ3 UPSTAND SPRING	 Sz1 fits 60mm Synchro block Sz2 fits 72mm Synchro block Sz3 fits 90mm Synchro block
Genoa Stirrup 28003225 SZ1NTR GENOA STIRRUP ASSY 28003226 SZ2 GENOA STIRRUP KIT (PB) 28002231 S/S MK2 STIRRUP RIVETTED ASSY.	
Genoa Stirrup Angle Limiter 25003711 SZ1 MKII I/B LIMITER 25003712 SZ2 MKII I/B LIMITER No limiter available for size 3	

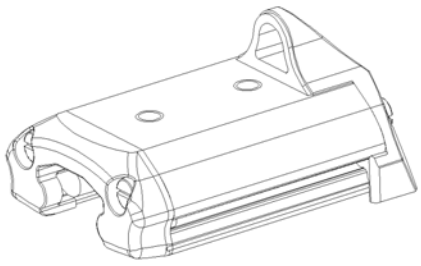
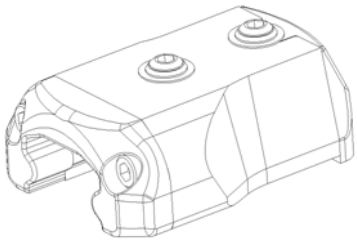
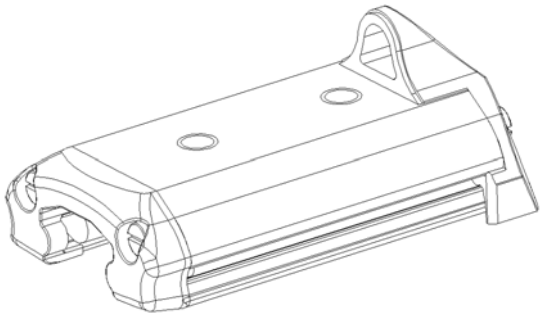
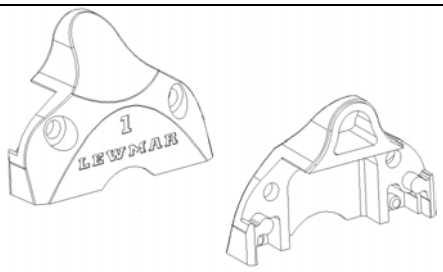
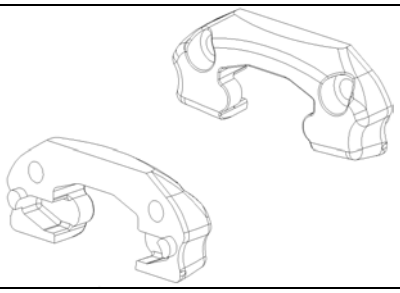
TRAVELER RANGE BUILD BLOCKS

CONTROL LINE PARTS & PLUNGER

Control Line Becket Kit 29471010 SZ1 BKT KIT PAIR 29472010 SZ2 BKT KIT PAIR 29473010 SZ3 ENDSTOP BKT PAD EYE+FIX Some size 3 uses size 2 part	 Size 1 Size 2  Size 3
Single Control Line Sheave 29471011 SZ1 SINGLE CL KIT PAIR ENDSTOP 29472011 SZ2 SINGLE CL KIT PAIR ENDSTOP Size 3 uses Sz2 or a 60mm Racing Footblock Plain bearings Ball sheaves have yellow sides	
Double Control Line Sheave 29471012 SZ1 DOUBLE CL KIT PAIR ENDSTOP 29472012 SZ2 DOUBLE CL KIT PAIR ENDSTOP Size 3 uses Sz2 or a 60mm Racing Footblock Plain bearings Ball sheaves have yellow sides	
Cleat Assembly For End Stop 29471015 SZ1 CLEAT ASSY PAIR ENDSTOP 29472015 SZ2 CLEAT ASSY PAIR ENDSTOP Size 3 loads are to high for cleats. Use a clutch on the deck	
Cleat Assembly For Car 28004144 The current traveller range (NTR) uses different plates from the Ocean Traveller Range. Size 3 loads are to high for cleats. Use a clutch on the deck	
Plunger Kits 28003321 SZ1 PLUNGER KIT 28003459 SIZE 2 PLUNGER KIT **Workshop fit only. Required swaging.**	

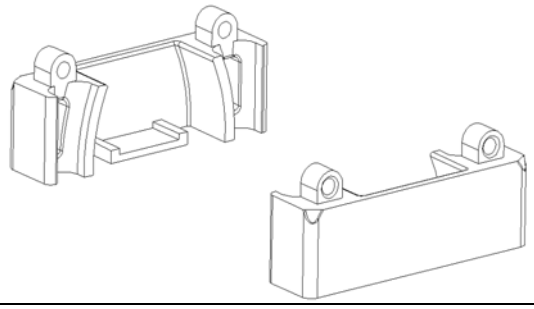
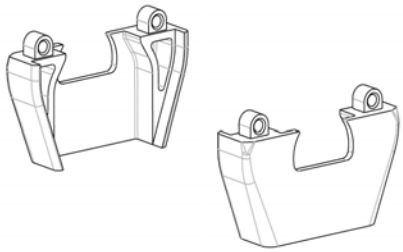
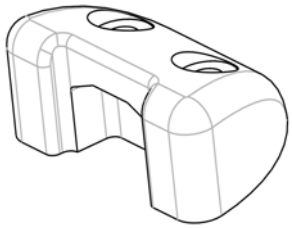
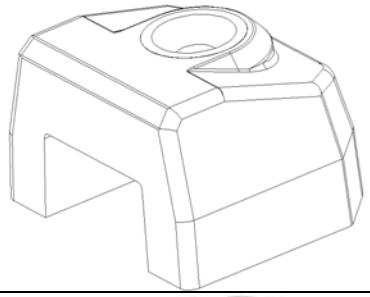
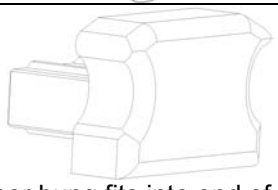
TRAVELER RANGE BUILD BLOCKS

CONTROL LINE END STOP PARTS

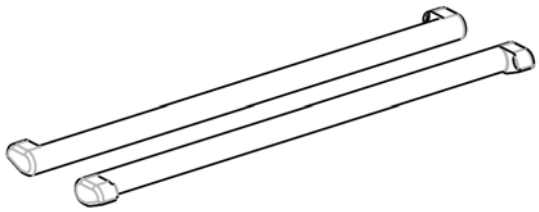
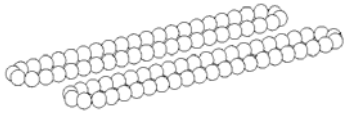
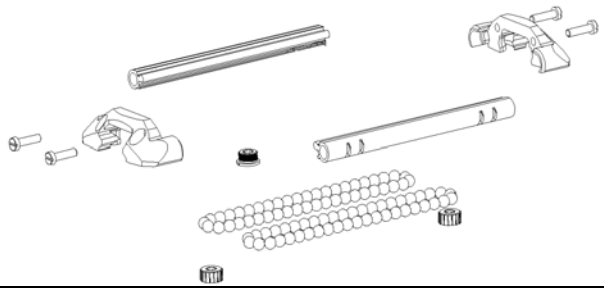
Standard End Stop 29471030 SZ1 CL ENDSTOP BASE 29472030 SZ2 CL ENDSTOP BASE 29473030 SZ3 IMPACT END STOP	 Size 1 & 2  Size 3
28004481 High Load Control Line End Stop What is the difference ?ID required	
End Stop Covers 25002927 SZ1 END STOP COVER 25002988 SZ2 END STOP COVER 25003963	
End Stop Buffer 25002915 SZ1 NTR BUFFER 25003440 SZ2 NTR BUFFER 25003894 SZ3 NTR BUFFER MKII	

TRAVELER RANGE BUILD BLOCKS

SIMPLE END STOPS & TRACK COVERS

Beam Track End Cover 29471041 SZ1 BM TRK END COVER PAIR 29472041 SZ2 BM TRK END PAIR 29473041 SZ3 BM TRK END COVER	
HD Beam Track Cover 29471042 SZ1 HD BM TRK COVER PAIR 29472042 SZ2 HD BM TRK COVER PAIR Size3 HD Beam Track does not exist	
Track End Stop 29171040 SZ1 SIMPLE END STOP 29172040 SZ2 SIMPLE END STOP 29173040 SZ3 SIMPLE END STOP	
Impact End Stop 29905105 SZ1 ONE PIECE IMPACT END STOP Does not exist for Sz 2 or Sz3	
29905114 SZ1 TRK PLUG 29905214 SZ2 TRK PLUG 29905314 SZ3 TRK PLUG 29905414 SZ4 TRK PLUG	 Rubber bung fits into end of track

TRAVELER RANGE BUILD BLOCKS – BEARINGS

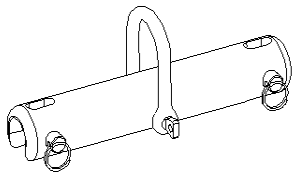
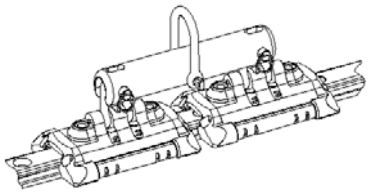
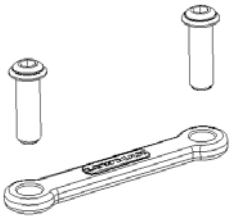
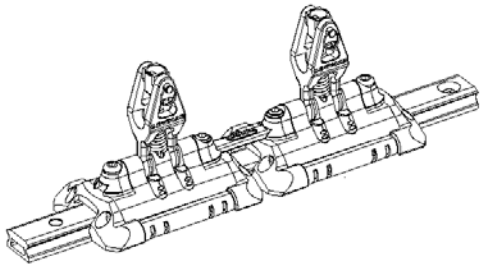
Slide Rods The current traveller range (NTR) uses different slide rods from the Ocean Traveller Range. NTR slide rods are not created as spares	
Torlon Balls 29171021 SZ1 TORLON BALL SPARES 29172021 SZ2 TORLON BALL SPARES 29173021 SZ3 TORLON BALL SPARES	
Slide Rod to Balls Conversion Kit 29471027 SZ1 REC BALL CONVERSION KIT 29472027 SZ2 REC BALL CONVERSION KIT Sz3 conversion not possible.	

TRAVELER RANGE BUILD BLOCKS - MISC

Joining Insert For Drilled Plunger Track 29970029 SZ0 BOX TRACK JOIN INSERT 29971029 SZ1 BOX TRACK JOIN INSERT 29972029 SZ2 BOX TRACK JOIN INSERT 29973029 SZ3 BOX TRACK JOIN INSERT	

TRAVELER RANGE BUILD BLOCKS

LINKS FOR JOINING CARS

Links For Short Cars – Short Car Links 29471063 SZ1 SHORTCAR LINK 29472063 SZ2 SHORTCAR LINK	Parts in kit  Link fitted to cars 
Dog Bone Link 29472064 SZ2 DOG BONE LINK Will fit any size 2 cars (Needs to be confirmed)	Parts in kit  Link fitted to cars 

TRAVELER RANGE BUILD BLOCKS

FASTENING TABLE

Size 1	**Fixings For Car**	**Fixings For End Stop**
End Stop Base		M6x length depends on installation
Single Control Line		M6x35
Double Control Line		M6x53
Single Control Line, Becket		M6x35
Double Control Line, Becket		M6x53
Double Control Line, Becket, Cleat		M6x53
High Load End Stop With 40mm Sheave		M8x60
Size 2	**Fixings For Car**	**Fixings For End Stop**
End Stop Base		M8x35 + M8x20 (2 lengths required)
Single Control Line		M8x45
Double Control Line		M8x65
Single Control Line, Becket		M8x45
Double Control Line, Becket		M8x70
Single Control Line, Becket, Vertical		M8x50
Sheave		M8x70
Double Control Line, Ball Bearing		M12 (length depends on installation)
Sheave, Becket		M8x20
High Load Impact End Stop		M8x45
Mid Track End Stop		M8x70
Mid Track Single Control Line, Becket		M8x45
Double Control Line, Becket, Cleat		M8x70

CAR UPSTAND TO BLOCK COMPATABILITY

Lewmar - NTR Traveller Range - Car Upstand To Block Compatability

Last Up-date: 20-Aug-07

Block Details

Block Type	Part Number	Block Size	Shackle Post Diameter (mm)	Shackle Post Diameter Tollerance (+/- mm)	Shackle Pin Diameter (mm)
Synchro	n/a	50mm	7.90	0.10	4
Synchro	n/a	60mm	9.43	0.05	5
Synchro	n/a	72mm	11.90	0.10	6
Synchro	n/a	90mm	16.50	0.10	9.8
Synchro	n/a	105mm	19.75	0.05	10
Control	n/a	30 Single	7.10	0.20	4
Control	n/a	30 Triple	9.25	0.25	5
Control	n/a	40 Single	8.00	0.05	4
Control	n/a	40 Triple	11.45	0.05	6
Control	n/a	60 single	9.50	0.10	5
Control	n/a	60 Double	9.90	0.10	6
Control	n/a	60 Triple	9.90	0.10	6
Racing		80mm LL Single	12.40	0.10	6
Racing		80mm LL Fiddle	12.40	0.10	6
Racing		80mm LL Double	14.00	0.20	8
Racing		80mm LL Triple	14.00	0.20	8
Racing	29941611	60mm HL single	11.10	0.10	6
Racing	29941612	60mm HL double	13.85	0.10	8
Racing	29941613	60mm HL triple	13.85	0.10	8
Racing	29941614	60mm HL single becket	11.10	0.10	6
Racing	29941615	60mm HL double becket	13.85	0.10	8
Racing	29941801	80mm Hl single	15.00	0.20	8
Racing	29941802	80mm Hl double	19.80	0.10	10
Racing	29941804	80mm HL single becket	15.00	0.20	8
Racing	29941805	80mm HL double becket	19.80	0.10	10
Racing	29941831	80mm HL Fiddle Block	15.00	0.20	8
Racing	29941834	80mm HL Fiddle & Becket	15.00	0.20	8
Racing	29941101	105mm HL single	19.80	0.10	10
Racing	29941102	105mm HL double	21.75	0.05	12
Racing	29941104	105mm HL single becket	19.80	0.10	10
Racing	29941131	130mm HL single	22.70	0.10	12
Racing	29941134	130mm HL single becket	22.70	0.10	12
Racing	29941151	155mm HL single	25.80	0.10	14
Racing	29941154	155mm HL single becket	25.80	0.10	14
Racing	29942606	60mm Runner shackle post	17.50	0.20	8
Racing	29942806	80mm Runner shackle post	23.75	0.20	10
Racing	29942106	105mm Runner shackle post	24.00	0.20	10
Racing	29942136	130mm Runner shackle post	28.00	0.20	12
Racing	29942156	155mm Runner shackle post	36.00	0.20	16

Traveller Details

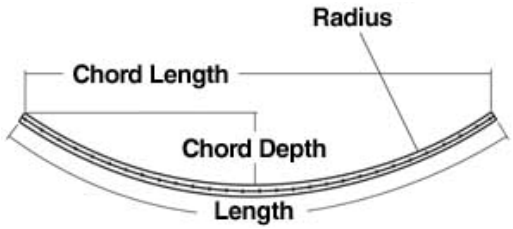
Traveller Range			Upstand Detail	
Ocean	Racing	NTR	Cup Diameter (mm)	Pin Diameter (mm)
0			-	-
1		1	9.5	5
	1		13	6
2		2	13	6
	2		21	10
3			16.5	10
		3	16.5	8
	3		24	12
		3HL	21	10
		3VHL	23	12
		4	tba	tba

NTR Upstand Conversion Kits	
29171024	SZ1 UPSTAND CONVERSION
29172024	SZ2 UPSTAND CONVERSION
29173024	SZ3 UPSTAND CONVERSION

BENT TRACK

BEND TYPES & MEASURMENT

Measurement



Bend Types

Horizontal "round the mast" annotation HR. Often used for self tacking jibs on mainsheet tracks on multihulls.	
Vertical Concave "ends up" annotation VC. Used for self tack in jibs and mainsheet tracks ensure the car moves to the end of the track as the control line is eased.	
Vertical Convex "ends down" annotation VX. Used where the mainsheet track follows the curve of the deck. Not very efficient since the car will try to remain in the centre – but aesthetically pleasing	

BENT TRACK

MINIMUM RADIUS FOR CARS

Car Length / Size	Short Car	Standard Car	Long Car
Size 1			
Car Length (mm)	107mm	162mm	n/a
Horizontal	3m	8m	n/a
Vertical	2m	4.5m	n/a
Size 2			
Car Length (mm)	140mm	210mm	307mm
Horizontal	3m	8m	12m
Vertical	4m	5m	12m
Size 3 with 2.5T Upstands			
Car Length (mm)	150mm	215mm	307mm
Horizontal	4m	10m	12m
Vertical	3m	5m	12m
Size 3 Production Radius Cars (HR = horizontal radius) (VR = vertical radius of either type)			
29333269 SZ3 CAR TB UPS HR 6-9M		6-9m HR	
29333246 SZ3 CAR TB UPS 2CL HR 4-6M		4-6m HR	
29333281 SZ3 CAR 2UPS HR 8-10M			8-10m HR
29333245 SZ3 CAR TB 2UPS 4CL VR8.22			7-9m VR
29333247 SZ3 CAR TB 3UPS 4CL VR8.2M			7-9m VR
29333248 SZ3 CAR TB 3UPS 2CL VR14M			14m VR

BENT TRACK – AVALBILITY

Size	Type			
	Drilled Plunger	Sliding Blot	Beam Track	Heavy Duty Beam Track
0	No	n/a	n/a	n/a
1	Yes	Yes	Yes	No
2	Yes	Yes	Yes	YES
3	Yes	Yes	Yes	No
4	Yes		n/a	
2 DBR	Yes			
25mm T-Track	No	n/a	n/a	n/a
32mm T-Track	No	n/a	n/a	n/a