

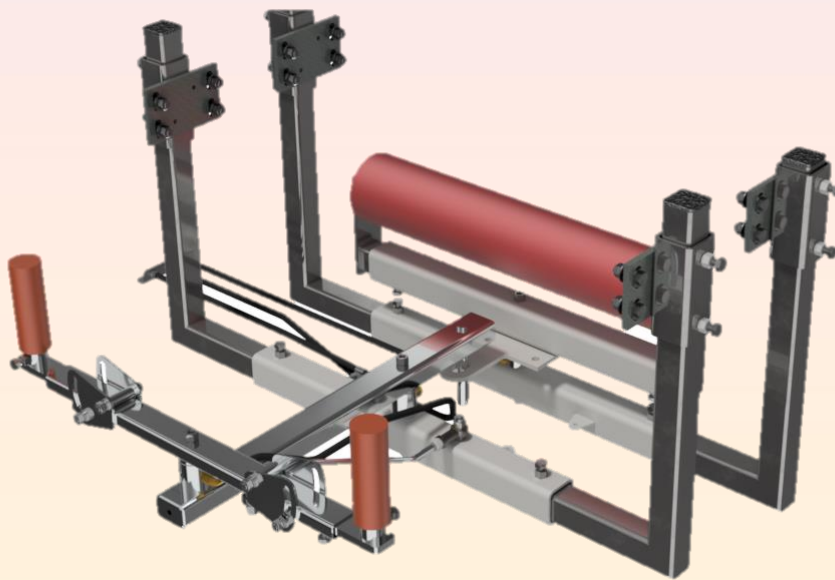


**ENGINEERING SERVICES & SUPPLIES PTY LTD**

**Ph: 1800 074 446 [www.esseng.com.au](http://www.esseng.com.au)**

# Upper & Lower Belt Tracker 600-1350 Belt Widths

Installation, Operation & Maintenance Manual





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**TOLL FREE 1800 074 446 FROM ANYWHERE IN AUSTRALIA**



## WARRANTY

**ESS WARRANTS** the **Upper & Lower Belt Tracker 600-1350 Belt Widths** to be free of defects both in materials and workmanship for a period of 12 months from the date of despatch of the product from the **ESS** factory. The warranty given by **ESS** in this regard will extend only to replacing or repairing product shown to be defective.

The warranty also is subject to the following restrictions:

- (a) Installation of the product contrary to the instructions contained in the supplied manual will void such warranty absolutely;
- (b) The warranty will not extend to any liability for injuries incurred and which result from the use of the product contrary to the instructions in the manual;
- (c) Save as prescribed by law, **ESS** will not be liable for any damage sustained by a purchaser or a third party by way of consequential loss arising out of defects in the product.

You are asked to note that **ESS** offers purchasers a service whereby either:

- (a) It will install the product and certify the correctness of such installation, or
- (b) Certify the correctness or otherwise of the installation of the product by third parties.

This certification service is designed to ensure that you obtain the full benefit of the **ESS** warranty hereby provided. If you would like to take advantage of the installation certification service provided, please contact **ESS** regarding the service.

Refer to the Final Checklist at the back of this manual.

Visit the **ESS** website [www.esseng.com.au](http://www.esseng.com.au) to register your product warranty.

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Information contained herein is for use in the operation of the **Upper & Lower Belt Tracker 600-1350 Belt Widths**, purchased from **ESS** and cannot be passed on to any other party without express permission, in writing, from **ESS**.



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## 1.0 SAFETY

The **Belt TRACKER** is designed to be quickly and easily serviced by appropriate personnel.

Under no circumstances should servicing or installation of the Belt tracker be carried out whilst the belt is in operation.

The conveyor must be shut down and locked out before any person enters or reaches into the conveyor enclosure.

Ensure that only suitably qualified and trained personnel install and service this product. Ensure that all site and statutory safety procedures are followed.



## 1.1. SAFETY LABELS

Pictograph labels are used to show graphically where potential safety hazards exist around this product. These labels do not represent every possible hazard. They are not intended to be a substitute for safe work practices and good judgment. These labels and *ESS* technical manuals use specific words to identify the severity of the hazard. They are described below. Take time to read and understand the meaning of these words and symbols.



Danger labels call attention to imminently hazardous situations that will result in serious personal injury or death if not avoided. Injury from these hazards is immediate in nature and has a high probability of resulting in a serious or fatal accident if proper precautions are not followed.



Warning labels call attention to potentially hazardous situations that could result in serious personal injury or death if not avoided. Injury from these hazards is usually serious in nature, and a severe or fatal accident can occur if proper precautions are not followed.



Caution labels call attention to potentially hazardous situations that may result in minor or moderate personal injury if not avoided. Injury from these hazards is normally less serious than those from Danger or Warning hazards. However, there is still the potential for an accident resulting in serious injury if proper precautions are not followed.



## 2.0 INTRODUCTION

The **BELT TRACKER** Belt Tracking Systems automatically sense and continuously correct belt tracking. A light touch of the belt against the guide rollers creates precision correction. The patented tie rod aligner translates the action of the guide roller pivot assembly to the training idler. The upper guide unit is used on the carry side of the belt, the lower guide unit is used on the return side.

A steering roller must be supplied by the client. Typically the roller removed from the system will suffice. For greater efficiency of the **BELT TRACKER**, ESS recommends the steering roller be coated with a rubber lagging.

### ALTERNATE TRACKING SYSTEMS

For conveying systems that reverse or have substantial roll back the **SMART BELT TRACKER** is available.

The **HEAVY DUTY BELT TRACKER** is available for belt widths from 1500-2000.



### 3.0 PREPARATION FOR INSTALLATION

1. **CHECK INSTALLATION DRAWINGS** – Ensure that you have the correct drawings and equipment for your conveyor/s.
2. **PRE-ASSEMBLE THE BELT TRACKERS AND MOUNTS** – Do this in your workshop or similar area, rather than at the conveyor. This will enable you to:
  - (a) Verify all required equipment is present.
  - (b) Familiarise yourself with the Belt Tracker assembly.
  - (c) Allow you to plan the installation, reducing installation time.
3. **ASSEMBLE THE FOLLOWING TOOLS;**
  - Wrenches (for M16, M10, M12 Bolts)
  - Adjustable Wrenches (300mm) x 2
  - Metric/ Imperial Allen Keys
  - Measuring Tape and Steel Rule
  - Electric Drill & Grinder (if allowable)
  - Welding and Cutting Equipment
  - G-Cramps
  - Square, Level, Straight Edge
  - Chalk or Marker
  - Lead Lights, Flash Light
  - Safety Equipment
  - Scaffolding as required



## 4.0 INSTALLATION

**Lower Belt Tracker** Locate the lower guide unit approximately three times the belt width before the point where the belt adjustment is needed or before any major pulley. If installing multiple units, allow 21 to 50m between units depending on the severity of mistracking.

**Upper Belt Tracker** Locate the upper guide unit beyond the loading point or three times the belt width before the point where the belt adjustment is needed. If installing multiple units, allow 21 to 50m between units depending on the severity of mistracking.

Remove existing troughing idler. Set aside for later use.

### Step 1.

Refer to the installation drawing F0154 (lower) or F0155 (upper) attached.

Mark out the four hole patterns at 300mm centres on the stringers as shown.

Check before drilling the hole patterns are perpendicular to each other from the left to right stringers.

If measuring from the tail pulley, first ensure the tail pulley is square with the stringers.

### Step 2.

Refer to the exploded parts drawing F0158 (lower) or F0159 (upper) attached.

Install the rear cross section. Mounts should be fastened after the rear cross section is in place.

### Step 3.

Fit the cross section/pivot plate into position using the M12 x 210 lg. bolt & nyloc nut.

Tighten the nut & check that the cross section pivots freely.

### Step 4.

Adjust both the rear cross section and cross section/pivot plate.

Ensuring that they are both centralised and the cross section/pivot plate is adjusted correctly for the Idler (client supply), tighten the adjustment screws.

### Step 5.

Adjust the rear cross section to engage the training idler to the belt. The idler should be elevated 20-25mm from the standard return idler alignment as shown on the installation drawing.

### Step 6.

Install the front cross section.

Mounts should be fastened after the front cross section is in place. Adjust the front cross section, ensuring the torque arm pivot point is aligned centrally with the cross section/pivot plate pivot point.

Fit the torque arm using the M12 x 175 lg. bolt & nyloc nut. Tighten the nut and ensure the torque arm pivots freely.

### Step 7.

Fit the guide frame (without guide arms) to the torque arm using the M12 x 135 lg. bolt & nyloc nut. Tighten the nut and ensure the guide frame pivots freely.



**Step 8.**

Fit the parallel stay to the guide frame and front cross section using an M12 nyloc nut.

Adjust the parallel stay if required to ensure the guide frame is parallel with the front cross section and perpendicular with the torque arm when the unit is centralised.

**Step 9.**

Rotate the torque arm so the centre pivot of the guide frame is in line with the centre of the belt. Fit the guide roller arms (including guide rollers) allowing 3-6mm gap between the belt and the guide rollers. Ensure the guide arms are extended an equal distance from the guide frame and tighten adjustment screws.

**Step 10.**

Adjust the guide arms on the upper belt tracker to the belt trough angle.

Adjust the front cross section to allow the belt to contact as close to the middle of the guide roller as possible.

Note that the torque arm must have clearance from the cross section/pivot plate.

**Step 11.**

Finally the grease nipples on the torque arm, front and rear cross sections should be lubricated adequately.

Note: Regrease nipples at regular service intervals.



## 5.0 COMMISSIONING

### **Step 1.**

Manually move the guide rollers from side to side to check the system function.  
Ensure all bolts have been tightened adequately.

### **Step 2. Is the belt empty?**

Make sure there are no tools left on the belt  
They may clog up conveyor systems.

### **Step 3. Start the conveyor.**

Follow the established safety rules.

### **Step 4. Observe the action of the Belt Tracker.**

Check the Belt Tracker action to ensure it is functioning correctly. Allow at least 10 revolutions of the belt.  
If adjustment is required, turn off and lock out/tag out the energy source to the conveyor and conveyor accessories.

Check and tighten all fasteners after running the belt.

### **Step 5. Demonstrate the system to the Operating Supervisors and Crew.**

Call the Supervisors responsible for the maintenance and operation to the site. Make a short run of the system. Show the operator how to adjust the system.

### **Step 6. Secure the system for production.**

Follow plant procedure to secure the conveyor for production.



## 6.0 OPERATOR TRAINING

The last step is the correct training of personnel to maintain and service the equipment or employ ESS on a contract basis to service and maintain ESS equipment keeping it in its optimum working condition.

If using your own personell to maintain the equipment, train them as follows;

1. Adhere to all local safety rules.
2. Give a “hands on” instruction with your conveyor system shut down.
3. Give a “hands on” instruction with your conveyor system running.
4. All services must be recorded and given to a person of responsibility.
5. Encourage the person being trained to look out for possible problems developing on the system.  
eg. Belt tracking excessively, tears or damage to the belt, excessive carry back, seized idlers, missing bolts etc. A warning to the Maintenance Department to rectify small problems can save the company a lot of money in repairs and production costs.
6. Impress how important it is to maintain and service ESS equipment correctly.



## 7.0 ROUTINE

Regular inspections and servicing is the key to an efficient conveyor system. It is recommended that the Belt tracker be inspected once per week. Actual intervals will vary considerably from plant to plant.

### **Inspection**

Inspect the condition of the Belt Tracker. Check the pivot points and guide rollers for free movement.

### **If maintenance is required**

**Step 1** Shut down and lock out the conveyor.

**Step 2** Grease the service nipples on the torque arm and the front and rear cross frames. If required replace guide rollers.

**Step 3** Remove locks or tags and restart belt. Observe Belt Tracker action. Clean up work area.



## 8.0 TROUBLE SHOOTING

### **PROBLEM** – Mounts don't fit in desired location

CAUSE	SOLUTION
Belt is too far below the stringers	Use alternative mounts available from ESS
Belt returns between the stringers	The belt will need to be deflected into position along the length the Belt tracker will be mounted.

### **PROBLEM** – Groove worn into the guide roller

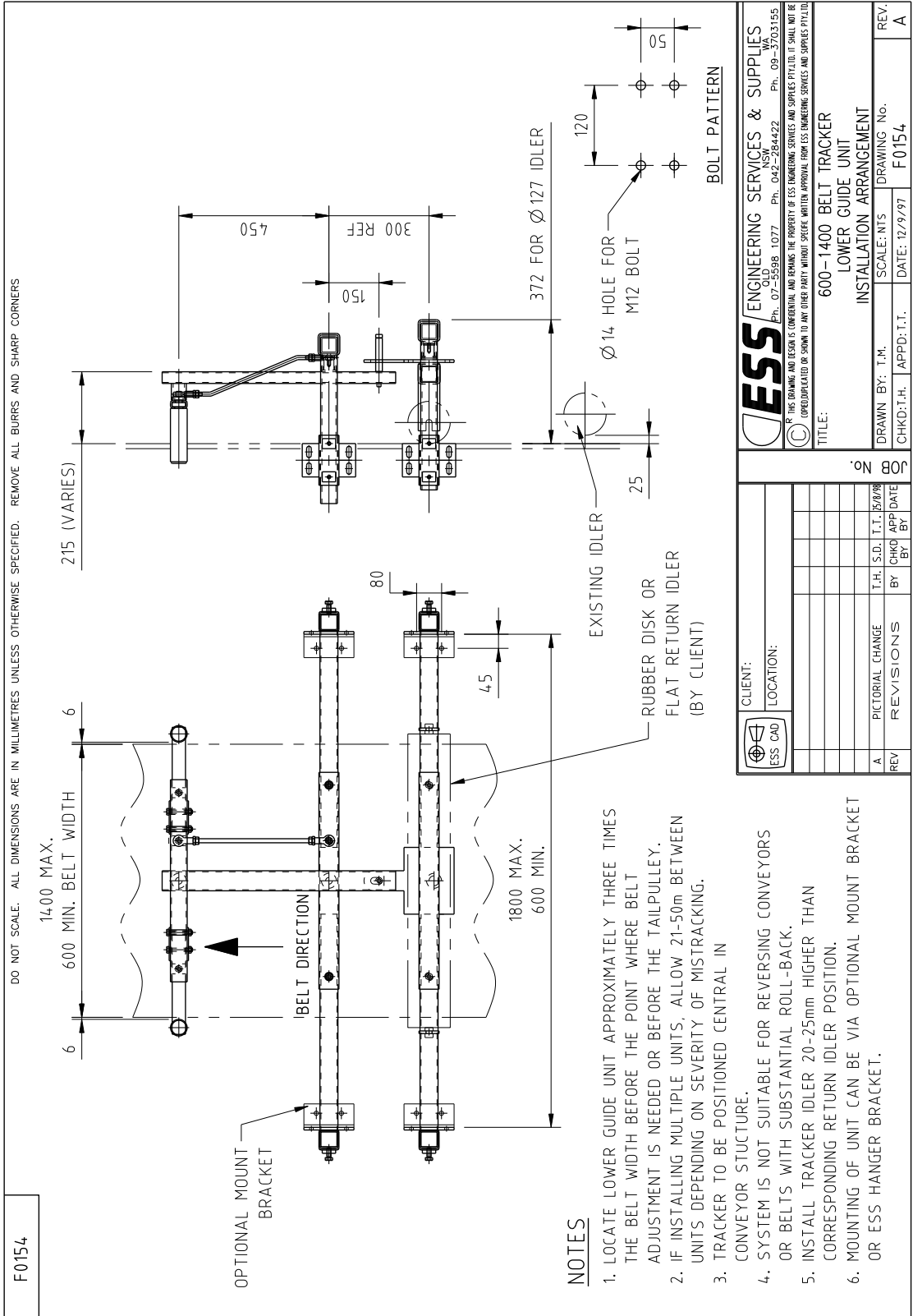
CAUSE	SOLUTION
Guide roller bearing may be seizing	Replace guide rollers
Torque arm, Front or Rear pivot points may be seizing	Check pivot points and replace bushing and grease if required

### **PROBLEM** – Belt is not Tracking correctly

CAUSE	SOLUTION
Belt Tracker may not be adjusted correctly	Adjust Belt tracker as mentioned in Installation
There may be multiple points of misalignment in the structure	Multiple Belt Trackers may be required

# 9.0 INSTALLATION DRAWINGS

## F0154 600 – 1400 Lower Guide Unit



<b>ESS/ENGINEERING SERVICES &amp; SUPPLIES</b> <small>N.S.W. Ph. 02-9598-1077 Ph. 042-284422 Ph. 09-3703155                  Q.L.D. Ph. 07-5598-1077 Ph. 042-284422 Ph. 09-3703155                  W.A. Ph. 08-9498-1077 Ph. 042-284422 Ph. 09-3703155</small>	
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TITLE: <b>600-1400 BELT TRACKER LOWER GUIDE UNIT INSTALLATION ARRANGEMENT</b>	
DRAWN BY: T.H.	SCALE: NTS
CHECKED: T.H.	DATE: 12/9/97
APPD: T.I.	DRAWING No. F0154
REV.	REV.
A	A

CLIENT:	JOB No.
LOCATION:	T.H. S.D. T.I. J.S.B./M
PICTORIAL CHANGE	BY (CHK) APP (DATE)
REVISIONS	BY



# 10.0 EXPLODED PARTS DRAWINGS

## F0158 600 – 1350 Lower Guide Unit

DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED. REMOVE ALL BURRS AND SHARP CORNERS

30	WASHER M12 304SS	10	-	02319512s
29	SCREW M12X30 HEX SET 304SS	2	-	02315530s
28	GREASE NIPPLE 1/8 TECALEMIT H29	3	-	02315160
27	MAINFRAME PLUG TO SUIT 50RHS PLASTIC	4	-	02650435P
26	WASHER M10 SPRING 304SS	4	-	02319412s
25	WASHER M12 SPRING 304SS	16	-	02319514s
24	WASHER M10 304SS	8	-	02319410s
23	WASHER 1/2" X 1 1/4" DIA 14G HD 304SS	32	-	02320312s
22	NUT M10 HEX 304SS	4	-	02311410s
21	NUT M12 NYLOC 304SS	5	-	02311514s
20	NUT M12 HEX 304SS	18	-	02311512s
19	BOLT M10X75 HEX 304SS	4	-	02303475s
18	SCREW M12X40 HEX SET 304SS	16	-	02315540s
17	SCREW M12X28 HEX SET POINTED 304SS	16	-	02315529s
16	GUIDE ROLLER ARM 1050-1350	2	D1130	79070620
15	GUIDE ROLLER ARM 600-900	2	D0512	79070619
14	GUIDE PIVOT BOLT x 135 LONG	1	D0595	79070700
13	FRONT PIVOT BOLT x 175 LONG	1	D0595	79070695
12	IDLER PIVOT BOLT x 210 LONG	1	D0595	79070690
11	GUIDE FRAME ELBOW 600-1350	2	D0509	79070617
10	GUIDE FRAME 900-1350	1	D1131	79070607
9	GUIDE FRAME 600-750	1	D0516	79070605
8	BUSH AND SLEEVE 600-1350 (SPARE PART)	3	-	79070615
7	PARALLEL STAY 600-1350	1	D0506	79070625
6	FRONT CROSS SECTION 600-1350	1	D0498	79070630
5	REAR CROSS SECTION UPPER/LOWER 600-1350	1	D0502	79070650
4	CROSS SECTION/PIVOT PLATE LOWER ONLY 600-1350	1	D0499	79070670
3	IDLER TELESCOPIC TUBE LOWER ONLY 600-1350	2	D0510	79070685
2	TORQUE ARM 600-1350	1	D0504	79070610
1	MOUNTING BRACKET LOWER ONLY 600-1350	4	D0507	79070680
0	TELESCOPIC TUBE LOWER ONLY 600-1350	4	D0515	79070677
	REPLACEABLE GUIDE ROLLER	2	D0597	79070622
ITEM	DESCRIPTION	QTY.	DRG.No.	PART No.

CLIENT:	ESS CAD	PIR 1040	SD AM	10/10/20
LOCATION:	ITEM 20 ADDED TO ITEM 16	EDCR 1067	KG	DER NLSJ
	REF DWG WAS SPELT VIPPER	EDCR 1027	KO	RE SJT
	IT 28 WAS 02351550	EDCR422	RE	SD RE 21/02
	REVISED AS PER REQUEST	EDCR1844	AM	7/7
ITEM 30 ADDED	EDCR1844	AM	7/7	
REV	REF DOCS	BY	CHKD	APP DATE
REVISIONS				

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 CUSTOMER SERVICE No. 1800 074446

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TITLE:  
 ESS TRACKER  
 LOWER - 600 - 1350  
 EXPLODED PARTS

SCALE: NTS  
 DATE: 15/10/19  
 DRAWING No. F0158

REV. M

JOB No. \_\_\_\_\_

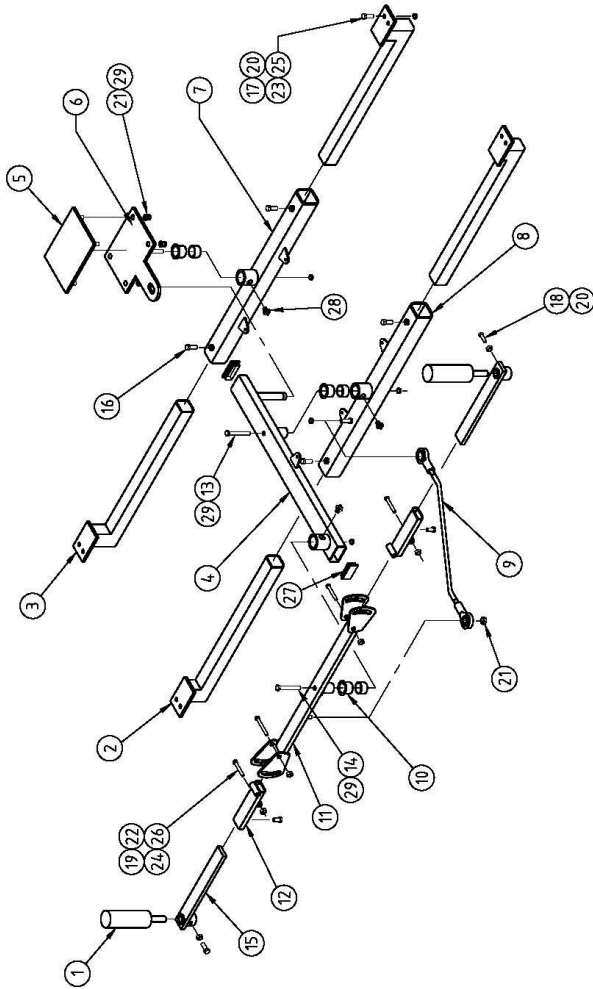
REVISIONS

REV	DESCRIPTION
01	LOWER TRACKER INSTALLATION
02	VIPER TRACKER EXPLODED PARTS
03	REFERENCE DRAWINGS

BELT WIDTH	PART No
600	79060600L (S)
750	79060750L (S)
900	79060900L (S)
1050	79061050L (S)
1200	79061200L (S)
1350	79061350L (S)

**F0159 600 – 1350 Upper Guide Unit**

DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED. REMOVE ALL BURRS AND SHARP CORNERS



29	WASHER M12 304SS	10	-	02319512S
28	GREASE NIPPLE 1/8 TECALEMIT H29	3	-	02351160
27	MAINFRAME PLUG TO SUIT 604.0x3RHS PLASTIC	2	-	02650450p
26	WASHER M10 SPRING 304SS	4	-	02319412S
25	WASHER M12 SPRING 304SS	8	-	02319514S
24	WASHER M10 304SS	8	-	02319410S
23	WASHER 1/2" X 1 1/4" DIA 14G HD 304SS	16	-	02320312S
22	NUT M10 HEX 304SS	4	-	02311410S
21	NUT M12 NYLOC 304SS	9	-	02311512S
20	NUT M12 HEX 304SS	10	-	02311514S
19	BOLT M10X75 HEX 304SS	4	-	02303475S
18	SCREW M12X30 HEX SET 304SS	2	-	02315530S
17	SCREW M12X40 HEX SET 304SS	8	-	02315540S
16	SCREW M12X28 HEX SET POINTED 304SS	6	-	02315529S
15	TRACKER 1050-1350 UPPER/LOWER GUIDE ROLLER ARM	2	D1130	79070620
14	GUIDE ROLLER ARM 600-900	2	D0512	79070619
13	GUIDE PIVOT BOLT x 135 LONG	1	D0595	79070700
12	FRONT PIVOT BOLT x 175 LONG	1	D0595	79070695
11	GUIDE FRAME ELBOW 600-1350	2	D0509	79070617
10	GUIDE FRAME 900/1350	1	D1131	79070607
9	GUIDE FRAME 600/750	1	D0516	79070605
8	BUSH AND SLEEVE 600-1350 (SPARE PART)	3	-	79070615
7	PARALLEL STAY 600-1350	1	D0506	79070625
6	FRONT CROSS SECTION 600-1350	1	D0498	79070630
5	REAR CROSS SECTION UPPER/LOWER 600-1350	1	D0502	79070650
4	PIVOT PLATE UPPER ONLY 600-1350	1	D0500	79070645
3	BASE PLATE UPPER ONLY 600-1350	1	D0552	79070612
2	TORQUE ARM 600-1350	1	D0504	79070610
1	TELESCOPIC TUBE REAR UPPER ONLY 600-1350	2	D0496	79070655
0	TELESCOPIC TUBE FRONT UPPER ONLY 600-1350	2	D0497	79070635
	REPLACEABLE GUIDE ROLLER	2	D0597	79070622
ITEM DESCRIPTION		QTY.	DRG.No.	PART No.

BELT WIDTH	PART No.
600	79060600U(S)
750	79060750U(S)
900	79060900U(S)
1050	79061050U(S)
1200	79061200U(S)
1350	79061350U(S)

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TITLE: UPPER BELT TRACKER 600 – 1350 EXPLODED PARTS LIST

DRAWN BY: TM  
 CHECKED: TH  
 APPD: TT  
 SCALE: NTS  
 DATE: 15/10/97

REV. R  
 DRAWING No. F0159

CLIENT: ESS  
 LOCATION: QUEENSLAND

ITEM 29 ADDED ITEM 21 QTY WAS 7 EDCR 10334 AM 21/05/25  
 Q ITEM 20 ADDED TO ITEM 15 PIR 1040 SD AM 19/09/99  
 P QTY'S ITEM 2.3.5 UPDATED EDCR1179 MK 3/6/99  
 O WAS UPPER TRACKER CR 7113 KO MH LS 4/18  
 N QTY'S ITEMS 17,20,21,23 4/25 REV'D EDCR 1012 KR AM RE 29/3/06  
 M EDCR 862 RE 3/4/05

REV REVISIONS REF DOCS BY CHKD APP DATE



## 11.0 FINAL CHECKLIST

Site: \_\_\_\_\_ Number: \_\_\_\_\_ Date: \_\_\_\_\_

Site Equipment No./Location: \_\_\_\_\_ Site Contact: \_\_\_\_\_

Completed By: \_\_\_\_\_ **(Circle Yes or No Below)**

1. Was equipment to ESS Specification? \_\_\_\_\_ Yes/No

Drawing No. Ref: \_\_\_\_\_ Attached? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

Will this affect performance? Yes/No

If Yes, WHY \_\_\_\_\_

\_\_\_\_\_

2. Was this a standard  service  inspection  installation? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

3. Was work carried out as per procedure and JSA? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

4. Is equipment fit for commissioning? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

5. Was a final inspection carried out while plant was running? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

6. Has anything changed from previous service / inspection / installation? Yes/No

If Yes, WHAT \_\_\_\_\_

\_\_\_\_\_

7. Is equipment performance to Client expectations? Yes/No

If No, WHY \_\_\_\_\_

\_\_\_\_\_

ESS Signature: \_\_\_\_\_ Client Signature: \_\_\_\_\_

