The following error was found in the EX ROVR Instruction Manual. We apologize for the error and correct it. Please check back for additional details.

Additional Contents

Common to all manuals 1.3(p1-5)

Precautions for the on-board gas detection function

The gas detector requires periodic filter replacement and calibration for proper operation. These are performed during the periodic and precision inspections described in the maintenance section, so do not forget to inspect the EX ROVR.

Additional Contents

Common to all manuals 1.4(p1-6)

| Driving time: | 1 to 2 hours when fully charged (varies according to operation) |
|---------------|---|
| | Time required for full charge: 2 hours (from empty battery) |

Error Correction

Common to all manuals 1.4(p1-6)

| Landing | (Incorrect) |
|---------|--|
| | U-shaped: Minimum dimensions of 1800 mm(W) x 1000 mm(D) |
| | L-shaped: Minimum dimensions of 1000 mm(W) x 1000 mm(D) |
| | (Correct) |
| | U-shaped: Minimum dimensions of 1800 mm(W) x 1100 mm(D) |
| | L-shaped: Minimum dimensions of 1100 mm (W) x 1100 mm(D) |

Common to all manuals 1.4(p1-6)

WARNING Do not drive at high or medium speeds on stairs, slope, and rough roads such as grating or gravel. Accident or damage may result due to tipping over or slipping. Always move at low speed on stairs, slope, and rough roads such as grating or gravel. Refer to the driving section for how to adjust the speed. CAUTION On gravel, be careful of gravel roll-in and do not force EX ROVR to run. Gravel of 20 to 30 mm in size may get caught in the gap between the crawler belt grouser and the main

Additional Contents

Common to all manuals 1.4(p1-7)

Places where driving is not possible

frame, resulting in motor overload.

If there are pipes of $\Phi 20 \sim 40$, convex areas of 20~40 in width, grating (illustrated in the figure below) or concave areas where the crawler's grouser could get caught, or flexible objects such as nets, ropes or cables (illustrated in the figure below), please lay protective plates, change the route, etc. Excessive load on the drive system may cause accidents or damage due to inability to travel.





Common to all manuals 2. (p2-2)

🚹 DANGER

Stairs on which ASCENT runs should be maintained so that rust is not exposed by painting or covering with cushioning materials the equipment in the area lower than 1 m in height from the flat area at the top, such as stairway landing.

If rust is caught between the aluminum member of ASCENT and the equipment at a speed faster than the travel speed (approx. 1.5[m/sec] or more) due to sliding or other reasons, there is a risk of igniting the surrounding flammable gas.

Additional Contents

Common to all manuals 2. (p2-4)

Installation and Setup manual (L5-59EU023 R00) 6.1(p6-1)

NOTE

Purge and use outside of hazardous areas.

There is a risk of condensation and foreign matter contamination.

Additional Contents

1

Common to all manual 3.3(p3-9)

NOTE Prepare the power cable for teleoperation terminal according to your environment. A power cable (125 V, 10 A, IEC 60320-1 C13 female connector, type A-3 grounded male plug, UL/CSA) with Japanese/US specifications is included. Prepare a male plug conversion adapter or a new power cable with the same female connector according to the environment in which it will be used.

Ω

Installation and Setup manual (L5-59EU023 R00) 6.1.1(p6-1)

| Communication | Available carriers differ depending on the country or region of use. |
|---------------|--|
| environment | Please check the following websites for available carriers and |
| | communication method (LTE). |
| | Plan01s except Japan: |
| | https://soracom.jp/services/air/cellular/pricing/price_iot_sim/ |
| | Docomo is the standard for Japan. (If you would like to use other |
| | carriers, please contact us.) |
| | Please contact each carrier for their coverage and compatible LTE |
| | bands. The LTE bands that can be used by ASCENT and |
| | teleoperation terminals are listed in Chapter 10 of the Installation |
| | and Setup manual. |
| | • |

NOTE

Video streaming transfers a lot of data and incurs communication charges.

Live data streaming, about 10Mbyte/min from EX ROVR to cloud and about 10Mbyte/min from cloud to teleoperation terminal, is confirmed during the 3D mapping of the site and scenario creation in the 3D map.

For autonomous operation it is recommended not to use the teleoperation terminal to confirm the live data streaming as it costs a lot.

Installation and Setup manual (L5-59EU023 R00) 6.5.2(p6-19)

| • | If ASCENT stops unintentionally during operation, check the status LED on the rear side of ASCENT. |
|---|--|
| | If it is blinking green or red, restart from a remote terminal. If it is blinking red, please refer to Chapter 9 Troubleshooting. |

Error Correction

Installation and Setup manual (L5-59EU023 R00) 10.1(p10-1)

| Max. surface | (Incorrect) | 66.4°C |
|--------------|----------------|--|
| temperature | (Correct) | - |
| | (Explanation) | Because this information is related to thermal hazards |
| | (described in | 2.1 (p2-7) common to all editions) and is not a |
| | specification. | |

Error Correction

Installation and Preparation (L5-59EU023 R00) Appendix B (pB-2)

| Station | (Incorrect) Rating(Um) : Single phase 200VAC 50/60Hz |
|-----------|---|
| nameplate | (Correct) Rating : Single phase AC200-240V±5% 50/60Hz |

Additional Contents

Installation and Setup manual (L5-59EU023 R00) Appendix C (pC-1)

| Countries | Please check the regulations of the country/region where you intend |
|----------------|---|
| outside Japan, | to set up the station, use ASCENT or teleoperation terminal. |
| EU and USA | |

1

Operation manual (L5-59EU024 R00) 8.3(p8-5)

NOTE

When mapping, avoid inching operation and keep smooth operation. In particular, when turning, use low speed and continuous motion to make a gradual turn.

Spin turn or pivot turn in high/medium speed may cause errors in ASCENT's orientation and may result in inaccurate mapping.

Additional Contents

Operation manual (L5-59EU024 R00) 9.3(p9-6)

NOTE

Do not exit or enter the charging-station during one scenario.

It may not auto-patrol properly.

Error Correction

Operation manual (L5-59EU024 R00) 15.1(p15-18)

| Error Code | (Incorrect) |
|------------|-----------------------|
| 202 | Emergency Stop button |
| Recovery | (Correct) |
| Method | Torque off button |