
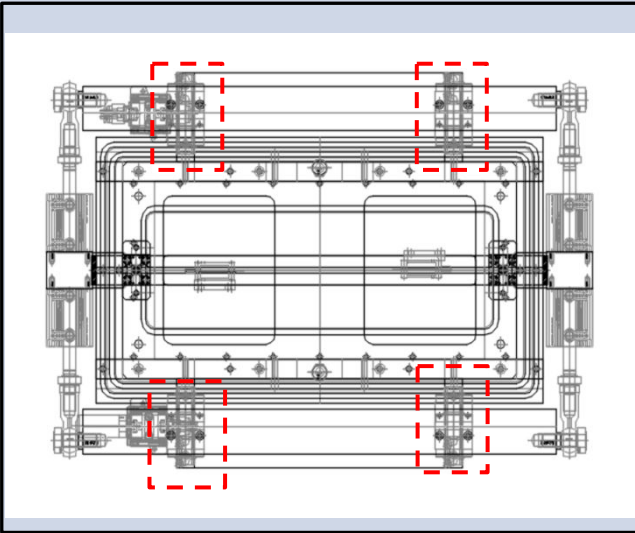


# CH 3. Five Types of Equipment Map

## Article 1. Grease Lubrication Map

### 3.1.1 LEAK DETECTOR M/C


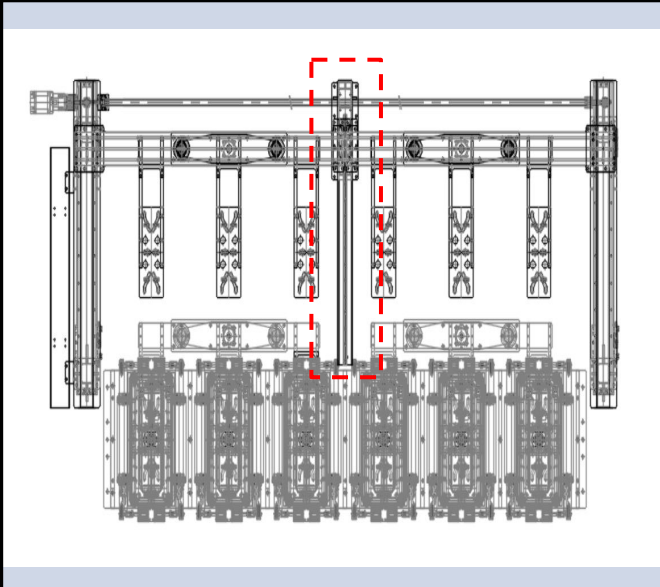
	Grease Lubrication Map	RE Date	Oct. 01, 2018
			

No.	Div.	Subject	Equipment Details			Lubrication Base			Lead Time (min.)	Required Staff (person)	Tool (set)
			Target of Inspection	Checking Point	Q'ty [EA]	Lubricant	Lubrication Amount				
1	LEAK DETECTOR(Lower Part)	Equip. Service	LM GUIDE	4 sections	4X6	1	AFF	Until finding Grease from the NEEDLE	10	1	Lubrication GUN

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## Article 1. Grease Lubrication Map

### 3.1.1 LEAK DETECTOR M/C

	Grease Lubrication Map	RE Date	Oct. 01, 2018
			


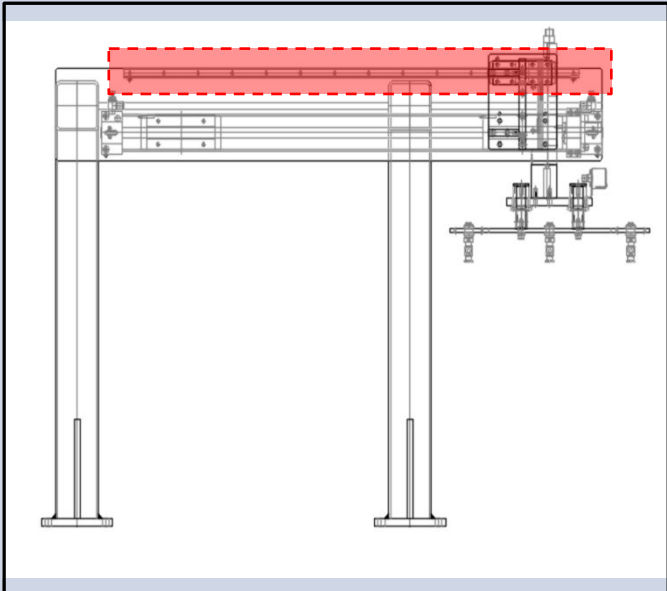
No.	Div.	Subject	Equipment Details			Lubrication Cycle (m.o.)	Lubrication Base		Lead Time (min.)	Required Staff (person)	Tool (set)
			Target of Inspection	Checking Point	q'ty [EA]		Lubricant	Lubrication Amount			
1	CELL OUT TRANSFER	Equip. Service	LM GUIDE	1 section	1	1	AFF	Until finding Grease from the NEEDLE	10	1	Lubrication GUN



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## Article 1. Grease Lubrication Map

### 3.1.1 LEAK DETECTOR M/C

	Grease Lubrication Map	RE Date	Oct. 01, 2018
			

No.	Div.	Subject	Equipment Details			Lubrication Cycle (m.o.)	Lubrication Base		Lead Time (min.)	Required Staff (person)	Tool (set)
			Target of Inspection	Checking Point	q'ty [EA]		Lubricant	Lubrication Amount			
1	NG Ejection	Equip. Service	LM GUIDE	1 section	1	1	AFF	Until finding Grease from the NEEDLE	10	1	Lubrication GUN

# CH 3. Five Types of Equipment Map

## Article 2. Defect Map

### 3.2.1 LEAK DETECTOR

<Instructions>

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.
- Complete all units related to the Defect part in the relevant equipment.

LG화학 / 전지사업본부	<b>Defect Map</b>	<b>RE Date</b>	<b>Oct. 01, 2018</b>

No	Process	Equip. Name	Unit Name	Part Name	Defective Spot	Defective Spot Details	Material	Expected Problem	Cause of Defect	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL IN P&P	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly because of the defect in the Cableveyor.	friction	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	friction

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- Complete all units related to the Defect part in the relevant equipment.

LG화학 / 전지사업본부	Defect Map	RE Date	Oct. 01, 2018

No	Process	Equip. Name	Unit Name	Part Name	Defective Spot	Defective Spot Details	Material	Expected Problem	Cause of Defect	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL IN TRANSFER	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly because of the defect in the Cableveyor.	friction	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	friction

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LG화학 / 전자사업본부	Defect Map	RE Date	Oct. 01, 2018

No	Process	Equip. Name	Unit Name	Part Name	Defective Spot	Defective Spot Details	Material	Expected Problem	Cause of Defect	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	LEAK DETECTOR (Upper Part)	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly because of the defect in the Cableveyor.	friction	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	friction

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LG화학 / 전지사업본부	Defect Map	RE Date	2018.07.14

No	Process	Equip. Name	Unit Name	Part Name	Defective Spot	Defective Spot Details	Material	Expected Problem	Cause of Defect	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency of Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL OUT TRANSFER	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly because of the defect in the Cableveyor.	friction	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	friction



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No	Process	Equip. Name	Unit Name	Part Name	Defective Spot	Defective Spot Details	Material	Expected Problem	Cause of Defect	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	NG Ejection	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly because of the defect in the Cableveyor.	friction	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	friction

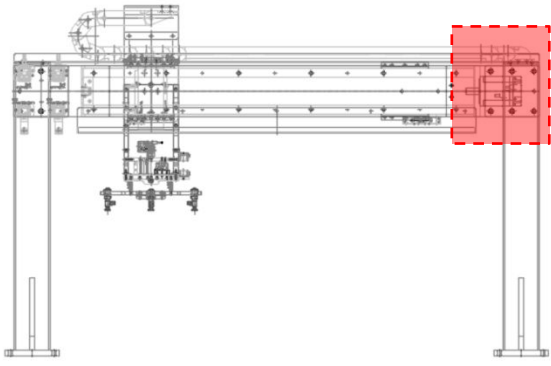
# CH 3. Five Types of Equipment Map

## Article 3. Vibration Source Map

### 3.3.1 LEAK DETECTOR

<Instructions>

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.
- Complete all units related to the vibration source in the relevant equipment.

	Vibration Source Map	RE Date	2018.07.14
			

No	Process	Equip. Name	Unit Name	Part Name	Vibration Source Section	Vibration Source Section Details	Expected Problem	Cause of Vibration Source	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequent Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL IN P&P	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M

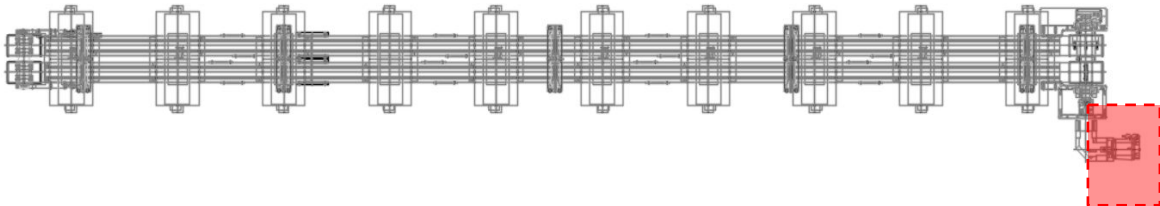
## CH 3. Five Types of Equipment Map

### Article 3. Vibration Source Map

#### 3.3.1 LEAK DETECTOR

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- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.
- Complete all units related to the vibration source in the relevant equipment.

Vibration Source Map		RE Date	2018.07.14
			

No	Process	Equip. Name	Unit Name	Part Name	Vibration Source Section	Vibration Source Section Details	Expected Problem	Cause of Vibration Source	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL IN CONVEYOR	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M

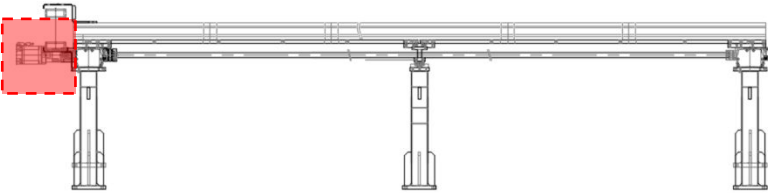
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Vibration Source Map		RE Date	2018.07.14
			

No	Process	Equip. Name	Unit Name	Part Name	Vibration Source Section	Vibration Source Section Details	Expected Problem	Cause of Vibration Source	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL IN TRANSFER	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M

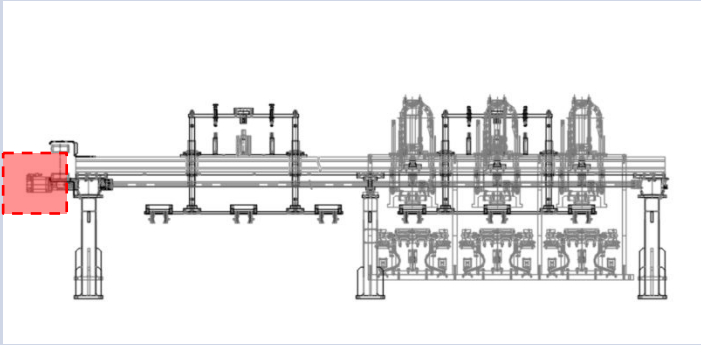
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No	Process	Equip. Name	Unit Name	Part Name	Vibration Source Section	Vibration Source Section Details	Expected Problem	Cause of Vibration Source	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL OUT TRANSFER	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M

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No	Process	Equip. Name	Unit Name	Part Name	Vibration Source Section	Vibration Source Section Details	Expected Problem	Cause of Vibration Source	Impact	Estimated Time for Replacement	Points	Level of Significance	Improvements	Completion Y/N	Frequency Inspection	Periodical Inspection
1	LGCWA #5	LEAK DETECTOR	CELL OUT CONVEYOR	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M

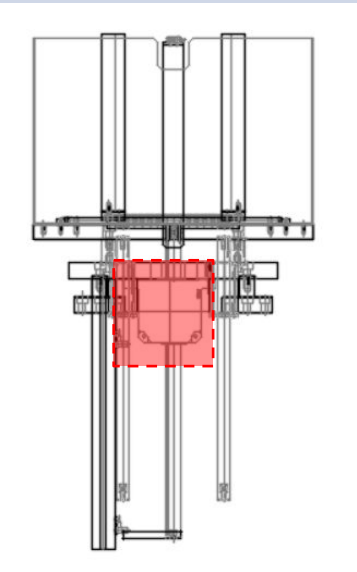
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1	LGCWA #5	LEAK DETECTOR	NG Ejection	Driving MOTOR	1	Driving MOTOR (SERVO MOTOR)	Inable to transfer CELL because of the defect in the MOTOR.	MOTOR Driving	Equipment Defect	10 min.		M	Visual Maintenance after Eye-Mark	Y	Once/6M	Once/6M