## REPARABILITY INDEX WORKSHEET OF TELEVISION **GENERAL INSTRUCTIONS**

#### **PURPOSE OF THE FILE**

This Excel file calculate the reparability index of a television.

### **REGULATORY FRAMEWORK**

Article L. 541-9-2 of the French Environmental Code states that: Manufacturers, importers, marketers and other retailers which put electrical and electronic equipment (EEE) on the French market have to inform, free of charge, downstream sellers and any person who made the request of "the reparability index" of their products, as well as the paramaters explaining how such index was established. This reparability index will inform consumers about the ability to repair the product category concerned. All information entered in this file must be truthful and verifiable.

The methods and rules of implementation for the reparabilty index are specified in the reparabilty index Decree N°2020-xxx 2020 (date) for electrical and electronic equipment (EEE), the Decision XXXX (date) on display conditions and parameters for calculating the reparability index and the Decision XXXX (date) on criteria, subcritera, rating system and display of the reparability index of televisions.

A complementary instructions manual provides explanatory informations and additional instructions on how to apply Decree and Orders of the reparability index of electrical and electronic equipement.

#### **FILE CONTENT**

General instructions	Description of the purpose of this Excel file, description of regulatory framework of the reparabily index and description of file content and how it will be completed.	
Product information	Description of the product and the assessment of its repairability index.	
C1_Documentation	Detailed criteria used to calculate the reparability index of the product	
C2_Disassembly	On each tab page, all 'orange boxes' must be completed by selecting the right	
C3_Availability of spare parts	information from the 'drop-down list' or by directly entered the right information in the box (e.g. criterion 4 : price and file to be send).	
C4_Price	When the information is enterred, the concerned box change to 'green'. No box	
C5_Specific	snould be left unanswered.	
Teparabily index and description of file content and how it will be completed.  Description of the product and the assessment of its repairability index.  Detailed criteria used to calculate the reparability index of the product.  C1_Documentation  Detailed criteria used to calculate the reparability index of the product.  On each tab page, all 'orange boxes' must be completed by selecting the right information from the 'drop-down list' or by directly entered the right information box (e.g. criterion 4 : price and file to be send).  C4_Price  When the information is enterred, the concerned box change to 'green'.  Should be left unanswered.  This tab automatically calculate final score of the reparability index of the product also scores per criteria and sub-criteria, before and after weighting.		
Note finale	reparabily index and description of file content and how it will be completed.  Description of the product and the assessment of its repairability index.  Detailed criteria used to calculate the reparability index of the product.  On each tab page, all 'orange boxes' must be completed by selecting the right information from the 'drop-down list' or by directly entered the right information i box (e.g. criterion 4: price and file to be send).  When the information is enterred, the concerned box change to 'green'. No should be left unanswered.  This tab automatically calculate final score of the reparability index of the product also scores per criteria and sub-criteria, before and after weighting.  This tab is the French translation of the "Final score" tab. It is automatically completed that is to be sent to all applicants.  Details about the therminology used for the reparability index.  Details about the list of "basic" tools and their reference standards.	
Annex 1	Details about the therminology used for the reparability index.	
Annex 2	Details about the list of "basic" tools and their reference standards.	
Annex 3	Details and application case about the concept of disassembly step.	

This button resets all data entered into the file. If you want to execute this action, please enable macros and click on the button.

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WARNING: this action cannot be undone.

# INFORMATIONS RELATING TO THE PRODUCT AND THE CALCULATION OF ITS REPAIRABILITY INDEX

Television

DATE OF CALCULATION	Please fill out
REQUESTOR OF THE ASSESSMENT	
LAST NAME	Please fill out
FIRST NAME	Please fill out
MAIL	Please fill out
PHONE NUMBER	Please fill out
RESPONSIBLE FOR EVALUATION	
LAST NAME	Please fill out
FIRST NAME	Please fill out
MAIL	Please fill out
PHONE NUMBER	Please fill out
RATED PRODUCT	
Producer's or importer's name or trademark	ExpressLUCK
Producer or importer adress	Hungary
Producer's or importer's model identifier	LE-24T2

CRITERION 1 : DOCUMENTATION Television

# SUB-CRITERION 1.1: COMMITMENT ON THE AVAILABILITY OVER TIME (WITHOUT CHARGE) OF THE TECHNICAL DOCUMENTATION AND THE OTHER DOCUMENTATION RELATED TO USER AND MAINTENANCE INSTRUCTIONS

#### ADDITIONAL INFORMATIONS:

**Documents/informations**: The information can be freely distributed at the initiative of the producer in various physical or dematerialized documents. Scoring points are awarded if the information referred to is available in any document.

Language of documents: In accordance with the law of August 4, 1994 on the use of the French language, information intended for consumers must be drawn up in French; English is tolerated for very technical aspects intended for professional repairers (example: technical bulletins).

**Technical bulletins:** This wording covers announcements made by the producer to professional repairers, informing them, for example, of recently discovered bugs, of the corrections to be made, of the supply disruption of parts which have been replaced by others. Points are awarded if the edition of a technical bulletin is planned on an ongoing basis (when necessary).

**Information on access to professional repairers**: The producer or importer is free to indicate to consumers the professional repairers of his choice, but it is advisable to mention at least the repairer directories listed by Ademe: www.annuaire-reparation.fr

Instructions for self-repair: Points corresponding to years of availability are only granted if one or more operations are specified to consumers for self-repair, with adequate safety instructions, in a specific section under the title "self-repair", for example in the technical manual or of the instructions for use and maintenance. Article L 441-5 of the Consumer Code specifies the responsibility of the producer regarding self-repair.

Comm	nitment on the availability over time of the documentation (in years)	Column B Repairers		Column C Consumers	
	Type of documentation	Duration of availability	Subtotal	Duration of availability	Subtotal
1.1.A n	he unequivocal identification of the product (type of product, trademark, trade ame, model, and possibly, serial number)	if X ≥ 11 years	11	if X ≥ 11 years	11
	dissasembly map or exploded view	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.C W	Viring and connection diagrams	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.D E	Electronic boards diagrams	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.E Li	ist of necessary repair and test equipment	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.F T	echnical manual of instructions for repair	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.G D	Diagnostic fault and error codes	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.H C	Component and diagnosis information	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.l ln	nstructions for software and firmware (including reset software)	if X ≥ 11 years	11	if X ≥ 11 years	11
	nformation on how to access data records of reported failure incidents stored on the product	if NA or X < 7 years	0	if NA or X < 7 years	0
	echnical bulletins	if X ≥ 11 years	11	if X ≥ 11 years	11
1.1.L S	specific guidance for self-repair (recommended operations, safety and repair structions, any implications for the guarantee)*			if X ≥ 11 years	11
1.1.M H	low to get access to professional repairers			if X ≥ 11 years	11
1.1.N F	ailures detection and required action (consumers approach)			if X ≥ 11 years	11
1.1.O U	Jser and maintenance instructions			if X ≥ 11 years	11
	Total sub-criterion 1.1		110		154

<sup>\*</sup>Points correspondina to vears of availability are only awarded if one or more operations are specified to consumers for self-repair, with adeauate safety instructions, in a specific

#### CRITERION 2: DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS

Television

PLEAS	E ANSWER THE FOLLOWING QUESTIONS :	ANSWERS
1)	Does the product have any internal power supply ?	Yes
2)	Does the porduct have any WiFi module ?	No
3)	Does the product have any Bluetooth module ?	No

#### SUB-CRITERION 2.1 : EASE OF DISASSEMBLY OF SPARE PARTS - BROKEN / MALFUNCTIONING PARTS (LIST 2)

ADDITIONAL INFORMATIONS:
Details of the dismantling steps can be found on the right side of this sheet and in Annex 3 grid.

PARTICULAR CASE OF TELEVISION External power supply and remote control do not need to be disassembled for disassembly steps. For these parts, the steps counted shall be: disconnecting the power cor and removing accumulators and battery from remote ontrol.

	Ease of disassembly	Rating	
	List 2 : Broken / malfunctioning parts	Number of steps required to disassemble the spare part	Subtotal
2.1.A	Remote control*	if DDi = 1	3
2.1.B	External power supply		
2.1.C	internal power suplly	if DDi < 8	3
2.1.D	Main board	if DDi < 8	3
2.1.E	Display panel/LCD panel	if DDi < 8	3
	Total sub-criterion 2.1		12
	Total 300-CiticHoll 2.1		10,0

<sup>\*</sup> Requires only to remove accumulators and battery

#### SUB-CRITERION 2.2: NECESSARY TOOLS TO REMOVE SPARE PARTS - BROKEN / MALFUNCTIONING PARTS (LIST 2)

#### ADDITIONAL INFORMATIONS:

ADDITIONAL INFORMATIONS:

- Necessary tools to unitarily disassemble a spare part include all tools used to get access and disassemble the concerned part without causing damage to the product (which might include getting access to fasteners).

- Tools used are classified according to the complexity of the operation to final users and the availability of tools.

- In case of using different types of tools in the disassembly and reassembly sequences of a spare part, the worst score shall be considered.

	Necessary tools for disassembly	Rating	
	List 2 : Broken / malfunctioning parts	Type of tools used for disassembly	Subtotal
2.2.A	Remote control	D : Removable with no tool with tools supplied with the product or with basic	4
2.2.B	External power supply		
2.2.C	Internal power suplly	D : Removable with no tool with tools supplied with the product or with basic	4
2.2.D	Main board	D : Removable with no tool with tools supplied with the product or with basic	4
2.2.E	Display panel/LCD panel	D : Removable with no tool with tools supplied with the product or with basic	4
	Total sub-criterion 2.2		16
	Total Sub-Crite/1011 2.2		10,0

#### SUB-CRITERION 2.3: CHARACTERISTICS OF FASTENERS FOR THE ASSEMBLY OF SPARE PARTS (LISTS 1 AND 2)

#### ADDITIONAL INFORMATIONS:

- Fasteners : A hardware device that mechanically or magnetically connects or fixes two or more objects, parts or pieces. A fastener is generally reactions. A flational device that internal inclination of integretically connected intext who intoll eduptics, parts of pieces. A resterier is generally non-permanent, i.e., it can be easily removed or disassembled without damaging the objects, parts or pieces connected or fixed together (e.g., screws or clips). Welds and some glues are in contrast to permanent fixings. Adhesives are considered non-reusable fasteners unless new ones are supplied with the spare part.

- Fasteners removed are classified according to their accessibility, reusability, amovibility and also their constraints imposed to the product reparability (e.g. fasteners causing damage or leaving welding or glue residues which preclude reusability of the removed part).

- In case of removing different types of fasteners during the disassembly step of a spare part, the worst score shall be considered

	Fasteners characteristics	Rating	
	List 1 : Functional parts List 2 : Broken / malfunctioning parts	Type of fasteners	Subtotal
2.3.A	Rear cover	C : Removable and reusable	2
2.3.B	WiFi module	Select a choice	0
2.3.C	Bluetooth module	Select a choice	9
2.3.D	Infrared receiver (IR)	A : Neither removable nor reusable	0
2.3.E	Loudspeaker	C : Removable and reusable	2
2.3.F	Connectors to connect external equipment (cable, antenna, USB, DVD and Blue-Ray)	C : Removable and reusable	2
2.3.G	Remote control	C : Removable and reusable	2
2.3.H	External power supply		
2.3.1	internal power supily	C : Removable and reusable	2
2.3.J	Main board	C : Removable and reusable	2
2.3.K	Display panel/LCD panel	C : Removable and reusable	2
	Total sub-criterion 2.3		14
	Total 300-CiticHoll 2.3		8,8

#### CRITERION 3 : AVAILABILITY OF SPARE PARTS Television

SUB-CRITERION 3.1: COMMITMENT ON THE AVAILABILITY OVER TIME OF SPARE PARTS - BROKEN/MALFUNCTIONING PARTS (LIST 2)

Definition of spare parts distributor: The definition of a spare parts distributor is given in the glossary appended to this manual.

Commitments on the availability of spare parts and delivery times (except Sunday and fest days): To award points to the A columns, the producer should have his own in-house repair service (example: via the after-sales service). Whether for the period of availability of spare parts or the delivery time, the producer or the importer must retain, among all of their practices towards authorized and independent repairers, the period or the most penalizing time for each spare part. In the event that the producer or importer does not make spare parts directly available to independent repairers, then points are not awarded in column C of criterion 3.1, 3.2, 3.3 and 3.4.

in addition, in the event that the producer or importer does not have an approved repairers network, the points are awarded based on the most penalizing practices towards independent repairers.

Delivery time: The delivery time is understood in working days between the day of the order and the day of arrival at the actor

Commitment on the availability over time of spare						Column C		Column D			
	parts (in years)	Producer		Spare parts reta	ailers	Repairers		Consumers	5		
	List 2 : Broken / malfunctioning parts	Duration of availability	Subtotal								
3.1.A	Remote control	if X ≥ 11 years	11								
3.1.B	External power supply	Select a choice	0								
3.1.C	Internal power suplly	if X ≥ 11 years	11								
3.1.D	Main board	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7		
3.1.E	Display panel/LCD panel	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7		
	Total sub-criterion 3.1		36		36		36		36	144	/1
	Total sub-criterion 3.1									8,2	/1

#### SUB-CRITERION 3.2 : COMMITMENT ON THE AVAILABILITY OVER TIME OF SPARE PARTS - FUNCTIONAL PARTS (LIST 1)

Commitment on the availability over time of spare parts (in years)		Column A Producer		Column B Spare parts retailers		Column C Repairers		Column D Consumers			
	List 1 : Functional parts	Duration of availability	Subtotal	Duration of availability	Subtotal	Duration of availability	Subtotal	Duration of availability	Subtotal		
3.2.A	Rear cover	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11		
3.2.B	WiFi module	Select a choice	0	Select a choice	0	Select a choice	0	Select a choice	a		
3.2.C	Bluetooth module	Select a choice	0	Select a choice	0	Select a choice	9	Select a choice	0		
3.2.D	Infrared receiver (IR)	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7	if 7 years ≤ X < 9 years	7		
3.2.E	Loudspeaker	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11		
	Connectors to connect external equipment (cable, antenna, USB, DVD and Blue-Ray)	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11	if X ≥ 11 years	11		
	Total sub-criterion 3.2		40		40		40		40	160	/176
	Total sub-crite/IOH 3.2				The state of the s				, and the second	9,1	/10

#### SUB-CRITERION 3.3: COMMITMENT ON THE DELIVERY TIME OF SPARE PARTS - BROKEN/MALFUNCTIONING PARTS (LIST 2)

Commitment on the delivery time of spare parts (in working days)		Column A Producer		Column B Spare parts retailers		Column C Repairers		Column D Consumers		
	List 2 : Broken / malfunctioning parts	Delivery time	Subtotal	Delivery time	Subtotal	Delivery time	Subtotal	Delivery time	Subtotal	l
3.3.A	Remote control	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
3.3.B	External power supply	Select a choice	0	Select a choice	0	Select a choice	0	Select a choice	0	
3.3.C	Internal power suplly	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
3.3.D	Main board	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
3.3.E	Display panel/LCD panel	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
	Total sub-criterion 3.3		12		12		12		12	ı
	10101 000 011011 010									ı

#### SUB-CRITERION 3.4 : COMMITMENT ON THE DELIVERY TIME OF SPARE PARTS - FUNCTIONAL PARTS (LIST 1)

Commitment on the delivery time of spare parts (in working days)		Column A Producer		Column B Spare parts retailers		Column C Repairers		Column D Consumers		
	List 1: Functional parts	Delivery time	Subtotal	Delivery time	Subtotal	Delivery time	Subtotal	Delivery time	Subtotal	
3.4.A F	Rear cover	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	1
3.4.B V	ViFi module	Select a choice	0	Select a choice	0	Select a choice	0	Select a choice	0	
3.4.C B	Bluetooth module	Select a choice	0	Select a choice	0	Select a choice	0	Select a choice	0	
3.4.D lr	nfrared receiver (IR)	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
3.4.E L	oudspeaker	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
3.4.F	Connectors to connect external equipment (cable, antenna, USB, DVD and Blue-Ray)	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	if X ≤ 3 days	3	
	Total sub-criterion 3.4		12		12		12		12	
	Total sub-criterion si-									1

### ADDITIONAL INFORMATIONS:

Deduction of delivery costs: The principle adopted is to make a calculation excluding transport or delivery costs. If the latter are included in the tariffs of the general terms and conditions of sale, it is up to the producer or importer to deduct them in order to calculate the ratio. In particular for the price of spare parts, two methods are possible for deducting transport or delivery costs: individually for each of the parts in list 2 or on a flat-rate basis (in absolute value or as a percentage). The same applies to the price of new equipment.

Spare part(s) forming part of a batch: If one or more of the parts in list 2 are part of a batch offered for sale or of any other subset of inseparable parts, the price of the part concerned is the price of this batch or subset.

Part not available: In the event that, at the time the index is calculated, a part from list 2 is not available, the number of points

Part not available: In the event that, at the time the index is calculated, a part from list 2 is not available, the number of points awarded for criterion 4 relating to the price of spare parts is 0.

Parts not managed by the producer or importer: if parts from list 2 are not managed by the producer or importer, the price of the

Parts not managed by the producer or importer: If parts from list 2 are not managed by the producer or importer, the price of the parts to be considered is then that of the supplier's general terms and conditions of sale at the time of the index calculation.

Options for products with the same reference: If options are offered for the same reference, and do not influence the technical

Options for products with the same reference: If options are offered for the same reference, and do not influence the technical characteristics for the purpose of calculating the index, then the calculation of the price ratio to be achieved is based on the price of spare parts and the price of the most current version of the product concerned.

Absence of a part: if the equipment does not include a part listed in list 1 or 2 of the category concerned, then the price of the absent part does not appear in the calculation of the ratio.

		RATING						
PRICE Criterion	Value (euros)	Score (%)	POINTS (/100)	FINAL SCORE (/10)				
Pre-tax price of the most expensive spare part (list 2)	145							
Average pre-tax price of other spare parts (list 2)	25	42,50%	0	0				
Manufacturer's price pre-tax of concerned model	200							

The number of points obtained for this criterion is determined as follows:

- if the result is greater than 0.3 then the number of points is 0;
- if the result is less than 0.1 then the number of points is 100;
- if the result is between 0.1 and 0.3 then the number of points is determined according to the following correspondence table :

Ratio	0,1	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,18	0,19	0,2	0,21	0,22	0,23	0,24	0,25	0,26	0,27	0,28	0,29	0,3
Points	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0

CRITERION 5 : SPECIFIC CRITERION Television

#### ${\bf SUB\text{-}CRITERION\,5.1:ACCESSIBILITY\,OF\,USAGE\text{-}METER\,TO\,CONSUMERS}$

ADDITIONAL INFORMATIONS:

- Definition of the usage meter: The usage meter is a device that cumulatively records the use of the equipment in number of units. This counter can either be visible directly by the consumer each time the device is started up or require a voluntary operation on the part of the user to become aware of the value displayed by the usage counter.

Unit of the usage meter: The unit considered is the number of hours of screen use.

Usage-counter	Column C Consumers		
	Condition	Subtotal	
5.1.A Accessibility of usage-counter	C : Visible or easily accessible	2	
Total sub-criterion 5.1		2 10,0	/2 /10

#### REPAIRABILITY INDEX CALCULATION AND PRESENTATION OF THE PARAMETERS WHICH ALLOWED TO ESTABLISH IT

Television

Date of calculation	Please fill out
Producer or importer adress	ExpressLUCK
Producer's or importer's model identifier	Hungary
Producer's or importer's name or trademark	LE-24T2

This "FINAL\_SCORE" tab in English is purely indicative. In order to meet regulatory obligations, only the
"NOTE FINALE" tab in French (see the next tab) is to be sent. Note: The results are automatically reported in the French tab.

DOCUMENTATION  CRITERION 2: DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  CRITERION 3: AVAILABILITY OF SPARE PARTS  CRITERION 4: PRICE OF SPARE PARTS  CRITERION 5: SPECIFIC CRITERION  1.2.1 Ease of disassembly part 2.2 Necessary tools (List 2) 2.3 Fasteners characteristics 3.1 Availability over time part 3.2 Availability over time part 3.3 Delivery time parts from 4. Ratio between price of parts 5.1 Accessibility of usage-cor 5.2 Free remote assistance	Reparability index on 10					
CRITERION 1: DOCUMENTATION  CRITERION 2: DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  CRITERION 3: AVAILABILITY OF SPARE PARTS  CRITERION 4: PRICE OF SPARE PARTS  1.1 Availability of the technic instructions  2.2 Lease of disassembly part 2.2 Necessary tools (List 2) 2.3 Fasteners characteristics 3.1 Availability over time part 3.2 Availability over time part 3.3 Delivery time parts from 3.4 Delivery time parts from 3.4 Delivery time parts from 3.5 Lease of disassembly part 4. Ratio between price of parts 5.1 Accessibility of usage-core	.3 Possibility to reset softwares					
CRITERION 1 : DOCUMENTATION  CRITERION 2 : DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  CRITERION 3 : AVAILABILITY OF SPARE PARTS  CRITERION 4 : PRICE OF SPARE PARTS  1.1 Availability of the technic instructions  2.2 Lease of disassembly part 2.2 Necessary tools (List 2) 2.3 Fasteners characteristics 3.1 Availability over time part 3.2 Availability over time part 3.3 Delivery time parts from 3.4 Delivery time parts from CRITERION 4 : PRICE OF SPARE PARTS  5.1 Accessibility of usage-core	5.2 Free remote assistance		0,5	20,0		
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  CRITERION 3 : 3.1 Availability over time parts AVAILABILITY OF SPARE PARTS  CRITERION 4 : PRICE  CRITERION 4 : PRICE  4. Ratio between price of parts.	e-counter to consumers	10,0	1			
CRITERION 1 : DOCUMENTATION 1: Instructions 2: DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time parts AVAILABILITY OF SPARE PARTS 1.1 Availability over time parts from 3.3 Delivery time parts from	f parts from list 2 to the price of the product	0	2	0		
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : 2.1 Ease of disassembly part 2.2 Necessary tools (List 2)  TOOLS, FASTENERS 2.3 Fasteners characteristics  CRITERION 3 : 3.1 Availability over time part 2.2 Availability over time part 3.2 Availability over time part 3.3 Availability over time part 3.5 Availability over 3.5 Availability 0.5 Availability 0	rom List 1	10,0	0,2	20,0		
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : 2.1 Ease of disassembly part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  CRITERION 3 : 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS 2.3 Fasteners characteristics 3.1 Availability over time part DISASSEMBLY, ACCESSIBILITY, TOOL	3.2 Availability over time parts from List 1 3.3 Delivery time parts from List 2		0,3	17,7	75,6	
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : DISASSEMBLY, ACCESSIBILITY, TOOLS, FASTENERS  2.1 Ease of disassembly part 2.2 Necessary tools (List 2) 2.3 Fasteners characteristics			0,5			
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : 2.1 Ease of disassembly part DISASSEMBLY, ACCESSIBILITY, 2.2 Necessary tools (List 2)	e parts from List 2	8,2	1			
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : 2.1 Ease of disassembly part DISASSEMBLY, 2.2 Necessary tools (List 2)	2.3 Fasteners characteristics parts from List 1** and List 2		0,5			
CRITERION 1 : 1.1 Availability of the technic instructions  CRITERION 2 : 2.1 Ease of disassembly part	2)	10,0	0,5	19,4		
CRITERION 1: 1.1 Availability of the techni	parts from List 2*	10,0	1			
Criteria	chical documentation and other documentation related to user and maintenance	9,2	2	18,5		
	Sub-criteria	Score of subcriterion /10	Weighting factor of subcriterion	Score of criterion /20	Total criteria scores /100	

<sup>\*</sup> list 2: list of a maximum of 3 to 5 spare parts (depending on the category of equipment concerned) whose broken or malfunctioning parts are the most frequent;
\*\* list 1: list of a maximum of 10 other spare parts (depending on the category of equipment concerned) whose good condition is necessary for the operation of the equipment.

### CALCUL DE L'INDICE DE RÉPARABILITÉ ET PRÉSENTATION DES PARAMÈTRES AYANT PERMIS DE L'ÉTABLIR

Téléviseur

# FICHE D'INFORMATION À TRANSMETTRE AUX DEMANDEURS (cf. Article L. 541-9-2 du Code de l'environnement)

Date de calcul	Please fill out
Nom ou marque commerciale du producteur ou de l'importateur	ExpressLUCK
Adresse du producteur ou de l'importateur	Hungary
Référence du modèle donnée par le	LE-24T2

Critère	Sous-critère	Note du sous- critère sur 10	Coefficient du sous critère	Note du critère sur 20	Total des notes des critères sur 100
CRITÈRE 1 : DOCUMENTATION	1.1 Durée de disponibilité de la documentation technique et relative aux conseils d'utilisation et d'entretien	9,2	2	18,5	
CRITÈRE 2 :	2.1 Facilité de démontage des pièces de la liste 2*	10,0	1		
DÉMONTABILITÉ, ACCÈS, OUTILS,	2.2 Outils nécessaires (liste 2)	10,0	0,5	19,4	
FIXATIONS	2.3 Caractéristiques des fixations entre les pièces de la liste 1** et de la liste 2		0,5		75,6
	3.1 Durée de disponibilité des pièces de la liste 2 3.2 Durée de disponibilité des pièces de la liste 1 3.3 Délais de livraison des pièces de la liste 2		1	17,7	
CRITÈRE 3 :			0,5		
DISPONIBILITÉ DES PIÈCES DÉTACHÉES			0,3		
	3.4 Délais de livraison des pièces de la liste 1	10,0	0,2		
CRITÈRE 4 : PRIX DES PIÈCES DÉTACHÉES	4. Rapport prix des pièces de la liste 2 sur prix de l'équipement neuf	0	2	0	
	5.1 Accessibilité du compteur d'usage	10,0	1		
SPECIFIQUE	5.2 Assistance à distance sans frais		0,5	20,0	
	5.3 Possibilité de réinitialisation logicielle		0,5		
		Note de	l'indice s	ur 10	7,6

<sup>\*</sup>liste 2 : liste des 3 à 5 pièces détachées au maximum (selon la catégorie d'équipements concernée) dont la casse ou les pannes sont les plus fréquentes ;

<sup>\*\*</sup>liste 1 : liste de 10 autres pièces détachées au maximum (selon la catégorie d'équipements concernée) dont le bon état est nécessaire au fonctionnement de l'équipement.

### ANNEX 1: TERMINOLOGY USED FOR THE REPARABILITY INDEX

The definitions of the following terms are specified in the decree relating to the repairability index for electrical and electronic equipment:
"Making available onthe market", "Placing on the market", "producer", "importer", "distributor", "Selier", "distance selling", "model".

Authorized repairer	The authorized repairer is often referred to as a technical station or authorized service center. It is a professional repairer for whom one or more contracts precisely define the relationship between the authorized repairer and the producer[s].	
Independent repairer	Independent repairers are repairers in the sense of "professional craftsmen repairers" designating repair companies listed in the trade directory with an APE or NAFA Code. They are professional repairers who do not fall into the category of authorized repairers. For example, 51.72.2 Repair of nounpater and peripheral equipment, 93.12.2 Repair of televisions, radio receivers, VCR, CD and DVD players, camcorders for domestic use; 95.22 Z2-2. Repair of household appliances and home and garden equipment.	Based on the technical expertise of the repairability index working groups
Professional repairer	Authorized repairer or independent repairer.	
Distributor of spare parts	Any moral or physica person in the supply chain, other than the producer or importer, who offers a spare part for sale. They are commonly referred to as "spare parts wholesalers".	
Disassembly	The process by which a product, spare part or fastener is disassembled so that it can then be reassembled and made operational.	According to Standard NF EN 45554 "General methods for the
Reassembly	The process by which a product, a spare part or a fastener is reassembled so as to fulfill its functional role and be made operational.	evaluation of the repair, reuse and improvement capacity of energy- related products", 2020.
Reuse / Reusable	The process by which a product, spare part or fastener, having reached the end of its first use, is used for the same purpose for which it was designed. Reuse after a second or subsequent use(s) is also considered to be reuse.	related products , 2020.
Factory Restoration	A specific functionality or setting to be activated by the customer, if the product allows it, to restore the default value of a specific functionality of the device as set at the factory and available when the customer first uses the product.	Inspired by the Commission regulation (EU) 2019/2021
Update / Upgrade	The process of improving the functionality, performance, capacity or aesthetics of a product. This process may involve changes to the software, firmware and/or a hardware component of the product.	According to Standard NF EN 45554 "General methods for the evaluation of the repair, reuse and improvement capacity of energy- related products", 2020.
Corrective update	An update performed after a failure has been detected and intended to restore an asset or software to a state in which it can perform a required function. This type of update corrects hardware or software malfunctions or non-conformity but does not add new functionality.	Inspired by the AFNOR NF EN 13306 X 60-319 standard of June 2011 "All the technical, administrative and management actions during the life cycle of an asset, intended to
Evolutionary update	Upgrading, which consists of gradually modifying the software application by adding new features or additional modules, or by replacing an existing function with another, or even by proposing a different approach.	maintain or restore it to a state in which it can perform the required function "
Fastener	A hardware device that mechanically or magnetically connects or fixes two or more objects, parts or pieces. A fastener is generally non-permanent, i.e., it can be easily removed or disassembled without damaging the objects, parts or pieces connected or fixed together (e.g., screws or righ). Welden ad nome gleus are in contrast to permanent fixings. Adhesives are considered non-reusable fasteners unless new ones are supplied with the spare part.	Inspired by, "Fasteners - Their Needs and Types", Bright Hub Engineering, 2020.
Reusable fastener	See the definition of "reusable".	According to Standard NF EN 45554 "General methods for the evaluation of the repair, reuse and improvement capacity of energy- related products", 2020.
Removable fastener	An original fastener system that can be completely removed (without causing damage or leaving residue).	
Proprietary tool	A tool that is not commercially available and is owned exclusively by one party or company, and under which its use by another party (an end user or customer) involves copyright, license and/or cost.	Inspired by Will Kenton, "Proprietary Technology", 2019.
Part / Spare parts	A unitary element in the composition of the equipment.	

# **ANNEX 2: BASIC TOOLS AND THEIR REFERENCE STANDARDS**

According to the European Standard NF EN 45554 "General methods for the assessment of the ability to repair, reuse and upgrade energy-related products", 2020.

Tool type	Illustration (informative example)	Reference
Screwdriver for slotted heads, cross recess or for hexalobular recess heads		ISO 2380, ISO 8764, ISO 10664
Hexagon socket key		ISO 2936
Combination wrench		ISO 7738
Combination pliers		ISO 5746
Half round nose pliers		ISO 5745
Diagonal cutters		ISO 5749
Multigrip pliers (multiple slip joint pliers)		ISO 8976

Locking pliers	
Combination pliers for wire stripping and terminal crimping	
Prying lever	
Tweezers	
Hammer, steel head	ISO 15601
Utility knife (cutter) with snap-off blades	
Multimeter	
Voltage tester	

Soldering iron	
Hot glue gun	
Magnifying glass	

# **ANNEX 3: DETAILS ABOUT THE CONCEPT OF DISASSEMBLY STEP AN**

# **D APPLICATION CASE**