

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 589

DATE: JANUARY 1, 2019

PROJECT RP0560

**The following classification changes will be effected by this Notice of Changes:**

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols New:	G01M	13/003
Titles Changed:	G01M	subclass
	G01M	1/00, 1/04, 1/08, 1/22, 1/30, 1/32
	G01M	3/00, 3/022, 3/16, 3/165, 3/202, 3/205, 3/229, 3/28
	G01M	5/00
	G01M	7/00
	G01M	9/00, 9/062, 9/065
	G01M	10/00
	G01M	11/02, 11/04, 11/06, 11/08, 11/088, 11/30
	G01M	13/00, 13/005, 13/02, 13/021, 13/022, 13/023, 13/025, 13/026, 13/027, 13/028, 13/04, 13/045
	G01M	15/04, 15/10, 15/14
	G01M	17/00, 17/007, 17/0076, 17/0078, 17/013, 17/02, 17/022, 17/024, 17/025, 17/027, 17/028, 17/03, 17/04, 17/06, 17/08, 17/10
Warnings New:	G01M	13/00, 13/003
Notes Deleted:	G01M	15/00, 15/04, 15/14
<b>DEFINITIONS:</b>		
Definitions New:	G01M	15/04, 15/14
Definitions Modified:	G01M	subclass
	G01M	1/00, 1/30, 1/32
	G01M	3/00, 3/022, 3/025, 3/202, 3/24, 3/3236
	G01M	5/00
	G01M	7/00, 7/02, 7/022, 7/025, 7/08
	G01M	9/00
	G01M	10/00
	G01M	11/00, 11/005, 11/0242, 11/06, 11/08, 11/088, 11/30, 11/3181
	G01M	13/00
	G01M	15/00
	G01M	17/00, 17/013, 17/02, 17/024, 17/06, 17/08
	G01M	99/00

**No other subclasses/groups are impacted by this Notice of Changes.**

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**This Notice of Changes includes the following [Check the ones included]:**

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3.  REVISION CONCORDANCE LIST (RCL)

4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS G01M – TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES;  
TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G01M	subclass	TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES; TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR	
M	G01M 1/00	0	Testing static or dynamic balance of machines or structures	
M	G01M 1/04	2	Adaptation of bearing support assemblies for receiving the body to be tested	
M	G01M 1/08	2	Instruments for indicating directly the magnitude and phase of the unbalance	
M	G01M 1/22	3	and converting vibrations due to unbalance into electric variables	
M	G01M 1/30	1	Compensating unbalance	
M	G01M 1/32	2	by adding material to the body to be tested, e.g. by correcting-weights	
M	G01M 3/00	0	Investigating fluid-tightness of structures	
M	G01M 3/022	2	{Test plugs for closing off the end of a pipe}	
M	G01M 3/16	3	using electric detection means ({G01M3/045, G01M3/06, G01M3/12, G01M3/20, G01M3/24, G01M3/26 take precedence})	
M	G01M 3/165	4	{by means of cables or similar elongated devices, e.g. tapes}	
M	G01M 3/202	4	{using mass spectrometer detection systems}	
M	G01M 3/205	5	{Accessories or associated equipment; Pump constructions}	
M	G01M 3/229	6	{removably mounted in a test cell}	
M	G01M 3/28	3	for pipes, cables or tubes; for pipe joints or seals; for valves	
M	G01M 5/00	0	Investigating the elasticity of structures, e.g. deflection of bridges or air-craft wings (G01M9/00 takes precedence)	
M	G01M 7/00	0	Vibration-testing of structures; Shock-testing of structures (G01M9/00 takes precedence)	
M	G01M 9/00	0	Aerodynamic testing; Arrangements in or on wind tunnels	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b><u>“CPC only” text should normally be enclosed in {curly brackets}**</u></b>	<b>Transferred to#</b>
M	G01M 9/062	2	{Wind tunnel balances; Holding devices combined with measuring arrangements }	
M	G01M 9/065	2	{dealing with flow }	
M	G01M 10/00	0	Hydrodynamic testing; Arrangements in or on ship-testing tanks or water tunnels	
U	G01M 11/005	1	{Testing of reflective surfaces, e.g. mirrors }	
M	G01M 11/02	1	Testing optical properties	
M	G01M 11/04	2	Optical benches therefor	
M	G01M 11/06	2	Testing the alignment of vehicle headlight devices	
M	G01M 11/08	1	Testing mechanical properties {(G01M11/005 takes precedence)}	
M	G01M 11/088	2	{of optical fibres; Mechanical features associated with the optical testing of optical fibres }	
M	G01M 11/30	1	{Testing of optical devices, constituted by fibre optics or optical waveguides }	
C	G01M 13/00	0	Testing of machine parts	G01M 13/00, G01M 13/003
N	G01M 13/003	1	Machine valves (testing valves for fluid tightness G01M 3/00)	
M	G01M 13/005	1	Sealing rings	
M	G01M 13/02	1	Gearings; Transmission mechanisms	
M	G01M 13/021	2	Gearings	
M	G01M 13/022	2	Power-transmitting couplings or clutches	
M	G01M 13/023	2	Power-transmitting endless elements, e.g. belts or chains	
M	G01M 13/025	2	Test-benches with rotational drive means and loading means; Load or drive simulation	
M	G01M 13/026	3	Test-benches of the mechanical closed-loop type, i.e. having a gear system constituting a closed-loop in combination with the object under test	
M	G01M 13/027	2	Test-benches with force-applying means, e.g. loading of drive shafts along several directions	
M	G01M 13/028	2	Acoustic or vibration analysis	
M	G01M 13/04	1	Bearings	
M	G01M 13/045	2	Acoustic or vibration analysis	
M	G01M 15/04	1	Testing internal-combustion engines	
M	G01M 15/10	2	by monitoring exhaust gases {or combustion flame }	
M	G01M 15/14	1	Testing gas-turbine engines or jet-propulsion engines	
M	G01M 17/00	0	Testing of vehicles (testing fluid tightness G01M 3/00; testing elastic properties of bodies or chassis, e.g. torsion-testing, G01M 5/00; testing alignment of vehicle headlight devices G01M 11/06; testing of engines G01M 15/00)	
M	G01M 17/007	1	Wheeled or endless-tracked vehicles (G01M 17/08 takes precedence)	
M	G01M 17/0076	3	{Two-wheeled vehicles }	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
M	G01M 17/0078	2	{Shock-testing of vehicles }	
M	G01M 17/013	2	Wheels	
M	G01M 17/02	2	Tyres	
M	G01M 17/022	3	{the tyre co-operating with rotatable rolls }	
M	G01M 17/024	4	{combined with tyre surface correcting or marking means }	
M	G01M 17/025	3	{using infrasonic, sonic or ultrasonic vibrations }	
M	G01M 17/027	3	{using light, e.g. infra-red, ultra-violet or holographic techniques }	
M	G01M 17/028	3	{using X-rays }	
M	G01M 17/03	2	Endless-tracks	
M	G01M 17/04	2	Suspension or damping	
M	G01M 17/06	2	Steering behaviour; Rolling behaviour	
M	G01M 17/08	1	Railway vehicles	
M	G01M 17/10	2	Suspensions, axles or wheels	

\*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

## NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.

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- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning notice(s)

**SUBCLASS G01M – TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES;  
TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR**

<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning</u></b>	<b><u>New/Modified Warning</u></b>
N	G01M 13/00		Group G01M 13/00 is impacted by reclassification into group G01M 13/003. Groups G01M 13/00 and G01M 13/003 should be considered in order to perform a complete search.
N	G01M 13/003		Group G01M 13/003 is incomplete pending reclassification of documents from group G01M 13/00. Groups G01M 13/00 and G01M 13/003 should be considered in order to perform a complete search.

\*N = new warning, M = modified warning, D = deleted warning

NOTE: The “Location” column only requires the symbol PRIOR to the location of the warning. No further directions such as “before” or “after” are required.

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C. New, Modified or Deleted Note(s)

**SUBCLASS G01M – TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES;  
TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	G01M 15/00	<p>Informative note</p> <p>References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:</p> <p>Measurement of mechanical vibrations in general G01H</p> <p>Analysing gases in general G01N</p> <p>Arrangements for testing electrical properties;</p> <p>Arrangements for locating electric faults;</p> <p>Arrangements for electrical testing characterised by what is being tested not provided for elsewhere G01R 31/00.</p>	
M	G01M 15/04	<p>1. Informative note</p> <p>References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:</p> <p>Monitoring or diagnostic devices for exhaust-gas treatment apparatus F01N11/00</p> <p>Indicating or supervising devices of internal-combustion engines F02B77/08</p> <p>Running in of internal-combustion engines F02B79/00</p> <p>Controlling combustion engines F02D</p> <p>Apparatus for testing, tuning or synchronising carburettors, e.g. carburettor flow stands F02M19/01</p> <p>Testing fuel-injection apparatus F02M65/00</p> <p>Testing internal-combustion engine ignition, e.g. timing F02P17/00</p> <p>Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity G01L3/24</p> <p>Determining the characteristic of torque in relation to revolutions per unit of time G01L5/26</p> <p>Devices for detecting or indicating knocks in internal-combustion engines G01L23/22</p> <p>Devices for measuring pressure in inlet or exhaust ducts of internal combustion engines G01L23/24</p> <p>Means for indicating positions of pistons or cranks of internal-combustion engines by measuring pressure G01L23/30.</p>	Delete <u>only</u> Note (1).



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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	G01M 15/14	Informative note References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group: Rocket-engine plants characterised by specially adapted arrangements for testing or measuring F02K 9/96.	

\*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

## 2. A. DEFINITIONS (New)

Insert: The following two new definitions.

### G01M 15/04

#### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Monitoring or diagnostic devices for exhaust-gas treatment apparatus	F01N 11/00
Indicating or supervising devices of internal-combustion engines	F02B 77/08
Running in of internal-combustion engines	F02B 79/00
Controlling combustion engines	F02D
Apparatus for testing, tuning or synchronising carburettors, e.g. carburettor flow stands	F02M 19/01
Testing fuel-injection apparatus	F02M 65/00
Testing internal-combustion engine ignition, e.g. timing	F02P 17/00
Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity	G01L 3/24
Determining the characteristic of torque in relation to revolutions per unit of time	G01L 5/26
Devices for detecting or indicating knocks in internal-combustion engines	G01L 23/22
Devices for measuring pressure in inlet or exhaust ducts of internal combustion engines	G01L 23/24
Means for indicating positions of pistons or cranks of internal-combustion engines by measuring pressure	G01L 23/30

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## G01M 15/14

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

Rocket-engine plants characterised by specially adapted arrangements for testing or measuring	F02K 9/96
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## 2. A. DEFINITIONS (Modified)

Insert: The following modified definitions.

### G01M

#### Definition statement

Delete: The following two existing statements in the Definitions statement section.

The scope of the subclass **G01M** is so broad that a detailed description of the subject matter appropriate for this place is correctly possible only at the main group level.

The user is referred to the CPC definitions for the individual main groups of **G01M** which follow hereinafter. The following list is intended to assist the user:

Insert: Bullets in the Definitions statement section before the existing statements that follow this sentence: *Testing characterised by the objects investigated*:

- Machines or machine parts – see definitions for **G01M 1/00**, **G01M 9/00**, **G01M 10/00**, **G01M 13/00**, **G01M 15/00**, **G01M 17/00**
- Structures – see definitions for **G01M 1/00**, **G01M 3/00**, **G01M 5/00**, **G01M 7/00**

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- Apparatus not provided elsewhere – see definitions for [G01M 11/00](#), [G01M 99/00](#)

Insert: **Bullets** in the Definitions statement section before the existing statements that follow this sentence: *Testing characterised by the properties investigated:*

- Balance – see definition for [G01M 1/00](#)
- Fluid tightness – see definition for [G01M 3/00](#)
- Elasticity, deflection – see definition for [G01M 5/00](#)
- Vibration resistance – see definition for [G01M 7/00](#)
- Aerodynamic properties – see definition for [G01M 9/00](#)
- Hydrodynamic properties – see definition for [G01M 10/00](#)
- Optical properties – see definition for [G01M 11/00](#)

## Relationships with other classification places

Insert: The word: “**Subclass**” before [G01N](#) and the word: “**subclass**” before [G01M](#), as shown in the text below.

Subclass [G01N](#) covers investigating, i.e. testing or determining, the properties of materials, as opposed to testing or determining the properties of structures or apparatus, machine parts, which is covered by subclass [G01M](#).

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Devices for testing the performance of portable percussive tools with fluid-pressure drive	<a href="#">B25D 9/005</a>
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**Limiting references**

Delete: The entire Limiting references section.

**Limiting references**

*This place does not cover:*

Devices for testing the performance of portable percussive tools with fluid-pressure drive	B25D 9/005
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**Glossary of terms**

In the existing Glossary of terms table:

Delete: In the **first** column, in all four rows, the word: “~~means~~” shown with strikethrough in the table below (to indicate deletion), and

Insert: In the **second** column, in all four rows, the word: means” at the beginning of the text in each of the four rows.

Calibrating <b>means</b>	means ascertaining the quality of a measuring or testing device, or checking, adjusting graduations of measuring or testing device
Monitoring <b>means</b>	means maintain a continuous or periodical watch (human or instrumental) on, to enable action to be taken or initiated, or a signal to be given, if undesired conditions occur
Investigating <b>means</b>	means testing or determining.
Testing <b>means</b>	means determination of the presence, quality, or genuineness of object to be tested.

## **G01M 1/00**

### **Definition statement**

Delete: In the Definition statement section, the following statements.

- Determining the moment of inertia of machines.
- Static balancing of machines.
- Determining position of center of gravity of machines.
- Devices for determining unbalance of machines.
- Devices for correcting unbalance of machines.

Replace: In the Definition statement section, the deleted statements with the following statements.

- Determining and compensating static or dynamic unbalance of machine or structures.
- Determining the moment of inertia of machines or structures.
- Static balancing of machines or structures.
- Determining position of centre of gravity of machines or structures.
- Devices for determining unbalance of machines.
- Devices for correcting unbalance of machines or structures.

### **Relationships with other classification places**

Delete: The following two paragraphs in the Relationships with other classification places section.

**G01H** covers the combination of generation and measurement of mechanical and other vibrations while subclass **G01M 1/00** covers determining unbalance by oscillating or rotating the body to be tested.

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**H04R** covers vibration transducers while **G01M 1/00** covers determining unbalance by evaluating measured vibrations.

Insert: The following three paragraphs in the Relationships with classification places section.

**G01H** covers the combination of generation and measurement of mechanical and other vibrations while subclass **G01M** covers determining unbalance by oscillating or rotating the body to be tested.

**G01R** covers instruments for measuring electrical variables, which can be used for balancing machines or devices but not specially adapted for this purposes.

**H04R** covers electromechanical transducers producing acoustic waves or variations of electric variables (current or voltage) while **G01M** covers determining unbalance by converting vibrations due to unbalance into electric variables.

### Application-oriented references

Delete: In the Application-oriented references table, the following two rows.

Equipment to decrease pitch, roll, or like unwanted vessel movements	B63B 39/00
Apparatus for indicating vessel attitude	B63B 39/00

Insert: In the Application-oriented references table, the following row.

Equipment to decrease pitch, roll, or like unwanted vessel movements; Apparatus for indicating vessel attitude	<b>B63B 39/00</b>
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**Informative references**

Delete: From the Informative references table, **only** the text shown with strikethrough in the row below.

Correcting- or balancing-weights or equivalents means for balancing rotating bodies, e.g. vehicle wheels, <del>for vibration suppression</del>	F16F 15/32
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Insert: The following three new rows in the Informative references table.

Measuring vibrations in general	G01H
Measuring electrical variables in general	G01R
Microphones or like acoustic electromechanical transducers	H04R

**Special rules of classification**

Delete: The entire Special rules of classification section.

**Special rules of classification**

The sub-group G01M/38 is not used anymore: classify in the correspondent classes in G01M 1/14 and G01M 1/30.

**G01M 1/30****Informative references**

Delete: In the Informative references table, **only** the text shown with strikethrough in the column/row below.

Counterweights; <del>Attaching or mounting same</del>	F16F 15/28
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**G01M 1/32****Informative references**

Replace: Only the text in the first column/row of the Informative references table with the text shown below.

Correcting-weights per se	F16F 15/32
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**G01M 3/00****Limiting References**

Delete: The entire Limiting references section: heading, preamble, and table.

**Informative references**

Replace: In the last row of the existing Informative references table, the word “characterized” with the version/spelling shown below.

characterised

Insert: In the existing Informative references table the new rows shown below.

Detection of leak in washing machines	A47L 15/4212
Membrane leak detection in blood dialysis	A61M 1/1692
Detecting medical infusion flow leakage	A61M 5/16831
Leak detection in membrane	B01D 65/102
Leakage-indicating devices for large containers	B65D 90/50
Locating fluid leaks in boreholes or wells	E21B 47/10
Leak detection in pumps	F04B 43/009
Means for stopping flow from pipes	F16L 55/10

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Preventing, monitoring or locating loss in the pipe-line and networks	<a href="#">F17D 5/02</a>
Leak detection in steam boilers	<a href="#">F22B 37/421</a>
Leakage detection in pressure sensors	<a href="#">G01L 19/0672</a>
Investigating material strength by pressure test	<a href="#">G01N 3/12</a>
Investigating the permeability, pore volume, or surface area of porous materials	<a href="#">G01N 15/08</a>
Investigating the presence of flaws or irregularities of material by mechanical methods	<a href="#">G01N 19/08</a>
Investigating the presence of flaws, defects or contamination by the use of optical means	<a href="#">G01N 21/88</a>
Investigating the presence of flaws by the use of microwaves	<a href="#">G01N 22/02</a>
Investigating the presence of flaws by wave or particle radiation, e.g. X-rays	<a href="#">G01N 23/18</a>
Investigating the presence of flaws by the use of thermal means	<a href="#">G01N 25/72</a>
Investigating the presence of flaws by the use of electric, electro-chemical or magnetic means	<a href="#">G01N 27/00</a>
Investigating the presence of flaws by the use of ultrasonic, sonic or infrasonic waves	<a href="#">G01N 29/04</a>
Mass spectrometers per se	<a href="#">H01J 49/26</a>
Leak testing of cell or batteries	<a href="#">H01M 10/4228</a>

## **G01M 3/022**

### **Limiting references**

Delete: The entire Limiting references section: heading, preamble, and table.

Insert: The following new section: Informative references.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Means for stopping flow from pipes	<a href="#">F16L 55/10</a>
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**G01M 3/025**

**Limiting references**

Delete: The entire Limiting references section: heading, preamble, and table.

Insert: The following new section: Informative references.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Failures in purge control systems	<a href="#">F02M 25/0809</a>
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**G01M 3/202**

**Application-oriented references**

Delete: The entire Application-oriented references section: heading, preamble, and table.

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Insert: The following new section: Informative references.

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Mass spectrometer per se	<a href="#">H01J 49/26</a>
--------------------------	----------------------------

## **G01M 3/24**

### **Definition statement**

Insert: Bullets, as shown below, before the existing statements in the Definitions statement section.

- Locating leak in underground pipes.
- Signal processing in the time and frequency domain.
- Signal processing using correlation techniques.
- Passive detection (no active source is used).

## **G01M 3/3236**

### **Limiting references**

Delete: The entire Limiting references section: heading, preamble, and table.

Insert: The following new section: Informative references.

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Leak testing of cell or batteries	<a href="#">H01M 10/4228</a>
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## G01M 5/00

### Definition statement

Insert: Bullets before the existing statements in the Definitions statement section.

- by determining damage, crack or wear.
- by determining deflection or stress.
- by using vibration or acceleration excitation or detection.
- by using an external apparatus, like a test bench.
- by measuring a variation of impedance (resistance, inductance or capacitance).
- by using electromagnetic excitation or detection.

### Limiting references

Delete: The following rows from the Limiting references table.

Testing of machine parts	G01M 13/00
Testing a vehicles	G01M 17/00
Mechanical testing of complete machine	G01M 99/005
Testing a structure by applying load	G01M 99/007
Earthquake detection	G01V 1/00
Testing of nuclear power plants	G21C 17/00

### Informative references

Insert: The following new rows in the Informative references table.

Testing of machine parts	G01M 13/00
Testing a vehicles	G01M 17/00
Mechanical testing of complete machine	G01M 99/005
Testing a structure by applying load	G01M 99/007
Earthquake detection	G01V 1/00
Testing of nuclear power plants	G21C 17/00

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## G01M 7/00

### Relationships with other classification places

Replace: The text in the Relationships with other classification places section with the updated text below.

**G01B** covers Instruments and methods for measuring linear dimensions of objects such as length, thickness, width, height, depth, diameter, coordinates of points of objects, distance or clearance between spaced objects or spaced apertures, angles or tapers, alignment of axes, areas, contours, curvatures, or profiles, roughness or irregularities of surfaces, deformation in a solid.

**G01H** covers measurement of mechanical vibrations in general.

### Limiting references

Delete: In the Limiting references table, the following rows.

Testing of gearings and transmission mechanisms using acoustic or vibration analysis	G01M 13/028
Testing of bearings using acoustic or vibration analysis	G01M 13/045
Testing of internal combustion engine using acoustic or vibration analysis	G01M 15/12
Testing the effect of speed or acceleration	G01M 99/004
Investigating the properties of solids material by application of a single impulsive force	G01N 3/30
Investigating the properties of solids material by application of a repeated or pulsating force	G01N 3/32
Investigating the properties of material by the use of ultra sonic, sonic or infra sonic waves	G01N 29/00
Investigating the presence of flaws in solids by the use of ultrasonic, sonic or infrasonic waves	G01N 29/04
Earthquake detection	G01V 1/00
Testing of nuclear power plants	G21C 17/00

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## Informative references

Insert: The following new rows in the Informative references table

Strain gauges	G01B
Testing of gearings and transmission mechanisms using acoustic or vibration analysis	G01M 13/028
Testing of bearings using acoustic or vibration analysis	G01M 13/045
Testing of internal combustion engine using acoustic or vibration analysis	G01M 15/12
Testing the effect of speed or acceleration	G01M 99/004
Investigating the properties of solids material by application of a single impulsive force	G01N 3/30
Investigating the properties of solids material by application of a repeated or pulsating force	G01N 3/32
Investigating the properties of material by the use of ultra sonic, sonic or infra sonic waves	G01N 29/00
Investigating the presence of flaws in solids by the use of ultrasonic, sonic or infrasonic waves	G01N 29/04
Earthquake detection	G01V 1/00
Testing of nuclear power plants	G21C 17/00

## Special rules of classification

Replace: In the Special rules of classification paragraph, this text:

excitation): it is possible to classify in both main group

with the text shown below.

excitation). It is possible to classify in both main groups

## G01M 7/02

### Definition statement

Delete: The word “Also” from the existing text, so text reads as follows:  
Environmental testing.

## G01M 7/022

### Definition statement

Delete: The word “Also” from the existing text, so text reads as follows:  
Overload protection.

## G01M 7/025

### Definition statement

Delete: The word “Also” from the existing text, so text reads is as follows:  
Measurement data analysis of vibration testing.

## G01M 7/08

Delete: The entire Limiting references section: heading, preamble, and table.

### Limiting references

*This place does not cover:*

Shock testing of vehicles	<a href="#">G01M 17/0078</a>
Shock-testing of solid materials	<a href="#">G01N 29/045</a>

Insert: The following two new rows in the existing Informative references table.

Shock testing of vehicles	<a href="#">G01M 17/0078</a>
Shock-testing of solid materials	<a href="#">G01N 29/045</a>



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## G01M 9/00

Insert: The following new Relationships with other classification places section.

### Relationships with other classification places

G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purposes, e.g. strain gauges.

G01H covers measurement of mechanical vibrations in general.

### Informative references

Replace: This existing row: “Investigating properties of materials in general ... G01N” with the row below.

Investigating the ductility of materials	G01N 3/28
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## G01M 10/00

Insert: The following new Relationships with other classification places section.

### Relationships with other classification places

G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purposes, e.g. strain gauges.

G01H covers measurement of mechanical vibrations in general.

Delete: The entire Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Building aspects	E
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Method for design, building or repairing or determining properties using towing tanks or model basins	B63B 9/02
Determining vessel properties with respect stability or balance	B63B 9/08
Apparatus for indicating vessel attitude	B63B 39/00
Investigating properties of materials in general	G01N
Strain gauges	G01B
Investigating the ductility of materials	G01N 3/28
Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft	G01P 5/00

## G01M 11/00

### Relationships with other classification places

Delete: In the second paragraph of the Relationships with other classification places section, the extra space before the word “Testing”.

Testing of optical devices or apparatus is classified in [G01M 11/00](#) only if there is no appropriate place for that subject matter elsewhere.

### Limiting references

Delete: The entire existing Limiting references section: heading, preamble, and table.

### References out of a residual place

Delete: The entire existing References out of a residual place section: heading, preamble, and table.

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Insert: The following new rows in the existing Informative references table.

### Informative references

Devices for testing or checking weapon sighting devices	F41G 1/54
Devices for testing or checking aiming and laying means	F41G 3/32
Calibrating optical contour or curvature measuring devices	G01B 11/2504
Photometry	G01J 1/00
Testing electrical properties of light emitting diodes, laser diodes or photodiodes	G01R 31/2635
Testing electrical properties of lamps	G01R 31/44
Devices or arrangements for the control of the intensity, colour, phase, polarisation or direction of light arriving from an independent light source, e.g. switching, gating, or modulating	G02F 1/00
Repairing of testing liquid crystal displays	G02F 1/1309
Testing correct operation of photographic apparatus	G03B 43/00
Testing and control of apparatus for microlithography	G03F 7/70483 – G03F 7/70541, G03F 7/70558, G03F 7/70591– G03F 7/70683
Inspection of images for flow detection	G06T 7/0002
Electronic inspection or testing of displays, like LED or LCD	G09G 3/006
Testing electrical properties of solar cells	H02S 50/10
Diagnosis, testing or measuring for television systems or their details	H04N 17/00

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Diagnosis, testing or measuring for television cameras	H04N 17/002
Monitoring or testing of lasers	H04S 3/008

## G01M 11/005

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Optical means to measure roughness of a surface	G01B 11/30
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## G01M 11/0242

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Measuring contours or curvatures by optical means	G01B 11/24
Measuring geometric parameters required to locate ophthalmic lenses in spectacles frames	G02C 13/005

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## G01M 11/06

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Arrangements for automatically correcting headlights in vehicle	<a href="#">G01B 11/30</a>
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## G01M 11/08

Insert: The following new References section: Limiting references.

### References

#### Limiting references

*This place does not cover:*

Testing of reflective surfaces, e.g. mirrors	<a href="#">G01M 11/005</a>
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## G01M 11/088

Delete: The entire existing Limiting references section: heading, preamble, and table.

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Insert: The following new Informative references section.

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Mechanical testing of thin elongated materials, like filament, web, tape or non-optical fibres	<a href="#">G01N 2203/028</a>
--	-------------------------------

## **G01M 11/30**

Delete: The following text located under the Limiting references table.

In general this group cover the testing of optical by measuring one or more given physical parameter, however if it concerns the use of fiber for determining one or more physical parameter see the coresponding fields (for instance [G01L](#) for force measurement, [G01K](#) for temperature measurement ...)

Insert: The following new Relationships with other classification places section.

### **Relationships with other classification places**

In general, this group covers the testing of optical by measuring one or more given physical parameters; however, if it concerns the use of fibre for determining one or more physical parameters, see the corresponding fields (for instance [G01L](#) for force measurement, [G01K](#) for temperature measurement ...).

### **Limiting references**

Delete: The entire existing Limiting references section: heading, preamble, and table.

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## Informative references

Insert: The following three new rows in the Informative references table.

*Attention is drawn to the following places, which may be of interest for search:*

Measuring a length, thickness, angle with an optical fibre	G01B 9/00
Measuring a non-specific physical parameter with an optical fibre	G01D 5/353
Measuring force with an optical fibre	G01L 1/242

Replace: The symbol H04B10/08 in the existing Informative references table with the symbol below.

H04B 10/07

## Special rules of classification

Replace: The symbol H04B10/08 in the Special rules of classification section with the symbol below.

H04B 10/07

Replace: In the second sentence of the Special rules of classification section, the word “document” with the following word:

Documents

## G01M 11/3181

## Limiting references

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Polarization Mode Dispersion measurement in transmission	<a href="#">G01M 11/336</a>
Polarization Dependent Loss measurement in transmission	<a href="#">G01M 11/337</a>

**G01M 13/00**

**Limiting references**

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Apparatus for testing, tuning or synchronising carburettors, e.g. carburettor flow stands	<a href="#">F02M 19/01</a>
Testing fuel-injection apparatus	<a href="#">F02M 65/00</a>
Testing of ignition installations peculiar to internal-combustion engines	<a href="#">F02P 17/00</a>
Testing of valves	<a href="#">F16K 37/0075</a>
Testing brakes	<a href="#">G01L 5/28</a>
Pressure-testing of materials	<a href="#">G01N 3/12</a>
Investigating machinability by cutting tools; Investigating the cutting ability of tools	<a href="#">G01N 3/58</a>



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## G01M 15/00

### Definition statement

Delete: The first two statements in the Definitions statement section (shown below).

G01M 15/04

No document should be classified in this sub-group but in:

Insert: The following new Relationships with other classification places section.

G01L covers instruments which can be used for testing of machine parts (gearing, transmission mechanisms), of steering or rolling behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.

### Limiting references

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following two new rows in the Informative references table.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Testing positive displacement machines for liquids, pumps, pumping installation	F04B 51/00
Knock detection in internal combustion engines	G01L 23/221

## G01M 17/00

### Definition statement

Delete: The existing paragraph in the Definitions statement section.

Testing of vehicles and also different parts of vehicles, e.g. wheels, tyres, endless-tracks, suspension, or of damping as a part of wheeled or endless-tracked vehicles or suspension, axles, wheels suspension, or of axles as a part of railway vehicles.

Insert: The following three paragraphs in the Definitions statement section.

Testing of machine parts, such as: sealing rings, gearings, power-transmitting couplings or clutches, power-transmitting endless, e.g. belts, chains, bearings.

Testing of engines, e.g. by monitoring different engine parameters: pressure, temperature, velocity, vibration, and power, detecting misfire, exhaust gases, combustion flame.

Testing of different parts of vehicles, e.g. wheels, tyres, endless-tracks, suspension, or of damping as a part of wheeled or endless-tracked vehicles or suspension, axles, wheels suspension, or of axles as a part of railway vehicles.

Insert: The following new Relationships with other classification places section.

### Relationships with other classification places

G01L covers instruments which can be used for testing of machine parts (gearing, transmission mechanisms), of steering or rolling behaviour of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.

### Limiting references

Delete: The following two rows from the Limiting references table.

Testing brakes	G01L 5/28
Testing of electric installation on transport means	G01R 31/006

**Informative references**

Insert: The following two new rows in the existing Informative references table.

Testing brakes	<a href="#">G01L 5/28</a>
Testing of electric installation on transport means	<a href="#">G01R 31/006</a>

**G01M 17/013**

Delete: The existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Railway wheel testing	<a href="#">G01M 17/10</a>
Testing of wheel alignment by optical means	<a href="#">G01B 11/275</a>

**G01M 17/02**

Delete: The existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Tyre tread bands and tread patterns	<a href="#">B60C 11/00</a>
Tyre tread bands and tread patterns wear indicating arrangements	<a href="#">B60C 11/24</a>

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Measuring profile depth	G01B 21/18
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**G01M 17/024**

Insert: The following new row in the Informative references section.

**Informative references**

Marking location of unbalance	G01M 1/26
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**G01M 17/06**

Insert: The following new row in the Informative references section.

**Informative references**

Measuring steering angles	G01B
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**G01M 17/08**

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new Informative references section.

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Testing of railways brake system	B60T 17/228
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**G01M 99/00****Limiting References**

Delete: The entire existing Limiting references section: heading, preamble, and table.

Insert: The following new References out of a residual place references section.

**References out of a residual place**

*Examples of places in relation to which this place is residual:*

Testing static or dynamic balance of machines or structures	G01M 1/00
Investigating fluid tightness of structures	G01M 3/00
Investigating the elasticity of structures, e.g. deflection of bridges, aircraft wings	G01M 5/00
Vibration testing of structures; Shock-testing of structures	G01M 7/00
Aerodynamic testing; Arrangements in or on wind tunnels	G01M 9/00
Hydrodynamic testing; Arrangements in or on ship-testing tanks or water tunnels	G01M 10/00
Testing of optical apparatus	G01M 11/00
Testing of machine parts	G01M 13/00
Testing of engines	G01M 15/00
Testing of vehicles	G01M 17/00

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## Informative references

Delete: In the Informative references table, only the comma before the first symbol.

Measuring golf clubs, bats or rackets	, <a href="#">A63B 51/005</a> , <a href="#">A63B 60/42</a> , <a href="#">A63B 60/46</a>
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Delete: The following two rows from the Informative references table.

Testing of electrical properties of sparking plugs	G01R 31/38
Testing or measuring during manufacture or treatment of semiconductor devices	H01L 21/66

Insert: The following replacement rows in the Informative references table.

Testing of electrical properties of sparking plugs	<a href="#">H01T 13/60</a>
Testing or measuring during manufacture or treatment of semiconductor devices	<a href="#">H01L 22/00</a>

## Special rules of classification

Replace: The second paragraph in the Special rules of classification section with the following paragraph.

Testing of particular devices or apparatus is often covered by the respective subclass provided for that devices or apparatus. Testing of particular devices or apparatus is classified in [G01M 99/00](#) only if there is no appropriate place elsewhere for that subject matter.

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3. REVISION CONCORDANCE LIST (RCL)

<b><u>Type*</u></b>	<b><u>From CPC Symbol (existing)</u></b>	<b><u>To CPC Symbol(s)</u></b>
C	G01M 13/00	G01M 13/00, G01M 13/003

\* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01M 13/003	G01M 13/003	NEW
G01M 13/005	G01M 13/005	UPDATE
G01M 13/021	G01M 13/021	UPDATE
G01M 13/022	G01M 13/022	UPDATE
G01M 13/023	G01M 13/023	UPDATE
G01M 13/025	G01M 13/025	UPDATE
G01M 13/026	G01M 13/026	UPDATE
G01M 13/027	G01M 13/027	UPDATE
G01M 13/028	G01M 13/028	UPDATE
G01M 13/045	G01M 13/045	UPDATE

\*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.