

# IMT

## MATERIAL HANDLING SYSTEMS

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### RCL SYSTEM PARTS



**IOWA MOLD TOOLING CO., INC.**

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424

MANUAL PART NUMBER 99903386

Iowa Mold Tooling Co., Inc. is an Oshkosh Truck Corporation company.

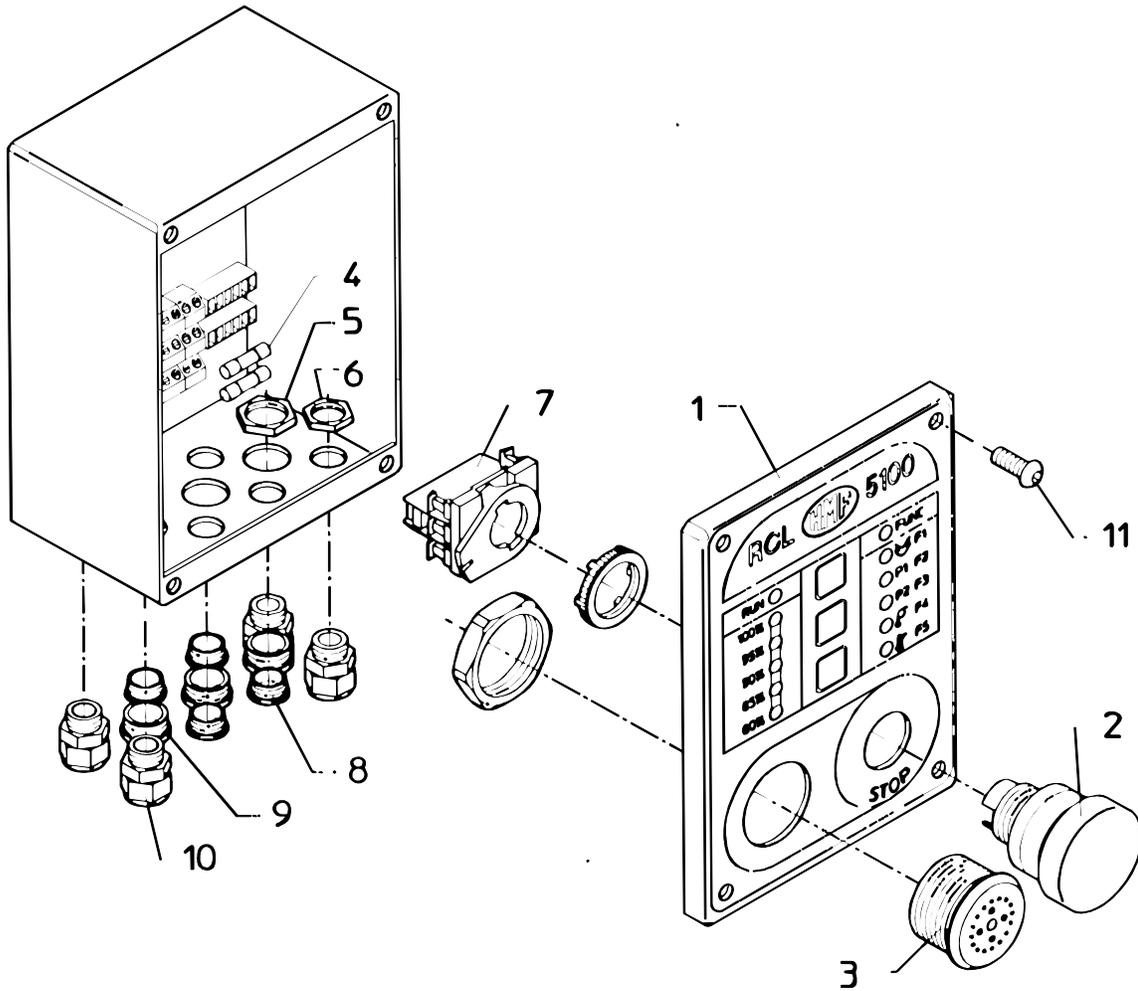
## TABLE OF CONTENTS

<b>REVISIONS LIST .....</b>	<b>3</b>
<b>RCL 5100 .....</b>	<b>4</b>
<b>RCL 5200 .....</b>	<b>5</b>
<b>ECT 5010 .....</b>	<b>6</b>
<b>ECT 5020 .....</b>	<b>7</b>
<b>ECT 5050 .....</b>	<b>8</b>
<b>EJB 5080 .....</b>	<b>8</b>
<b>SPOOL SENSORS .....</b>	<b>9</b>
<b>RCL 5100, CABLE REFERENCES .....</b>	<b>10</b>
<b>RCL 5100, BASIC CONFIGURATION .....</b>	<b>11</b>
<b>RCL 5100, ECT 5020 .....</b>	<b>12</b>
<b>RCL 5100, TS .....</b>	<b>13</b>
<b>RCL 5100, HDL 2.....</b>	<b>14</b>
<b>RCL 5100, DUAL CIRCUIT .....</b>	<b>15</b>
<b>RCL 5100, 2-STAGE LMB, 2.1 .....</b>	<b>16</b>
<b>RCL 5100, HS 2.2-2.....</b>	<b>17</b>
<b>RCL 5100, HS 2.2-4.....</b>	<b>18</b>
<b>RCL 5100, REMOTE CONTROL .....</b>	<b>19</b>
<b>RCL 5200 CABLE REFERENCES .....</b>	<b>20</b>
<b>RCL 5200 BASIC CONFIGURATION .....</b>	<b>21</b>
<b>RCL 5200, ECT 5020 .....</b>	<b>22</b>
<b>RCL 5200, TS .....</b>	<b>23</b>
<b>RCL 5200, HDL 2.....</b>	<b>24</b>
<b>RCL 5200, DUAL CIRCUIT .....</b>	<b>25</b>
<b>RCL 5200, 2-STAGE LMG 2.1 .....</b>	<b>26</b>
<b>RCL 5200, HS 2.2-2.....</b>	<b>27</b>
<b>RCL 5200, HS 2.2-4.....</b>	<b>28</b>
<b>RCL 5200, REMOTE CONTROL .....</b>	<b>29</b>

DATE	LOCATION	DESCRIPTION OF CHANGE
20050509 20070220	P. 11 COVER	28235 REPLACED BY 28821 UPDATED WITH OSHKOSH INFORMATION.

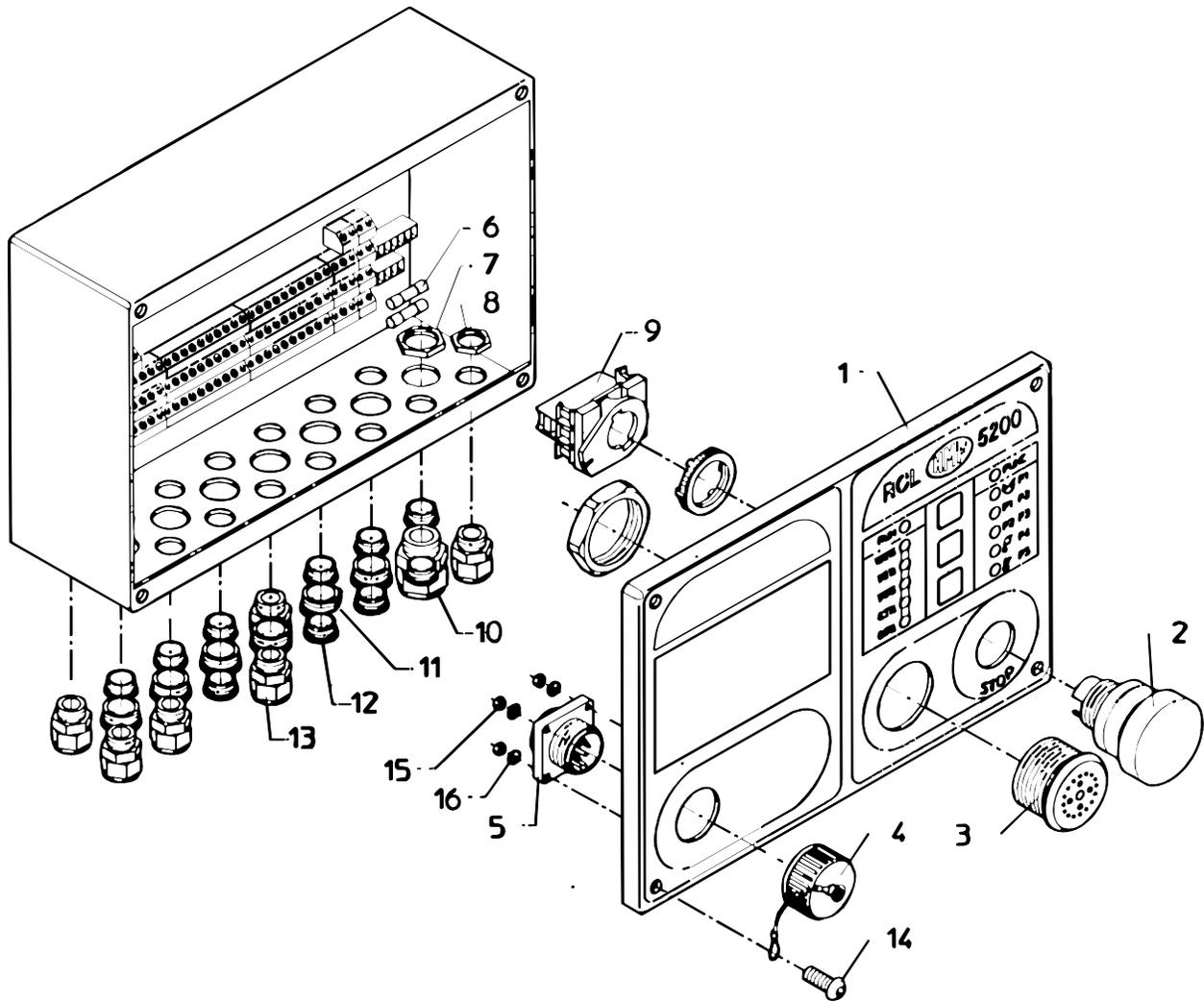
**RCL 5100**

	28228	RCL 5100 CONTROLLER	1
1.	28283	FRONT COVER (INCL. 2 & 3)	1
2.	28241	EMERGENCY STOP BUTTON (INCL. 7)	1
3.	28240	BUZZER	1
4.	28259	FUSE, 4 AMP	2
5.	28416	NUT	3
6.	28415	NUT	8
7.	28242	ELEMENT SWITCH	1
8.	28245	PLUG	4
9.	28247	PLUG	3
10.	28244	LEAD-IN CABLE	4
11.	32222	SCREW BH ULS6 X 16	4



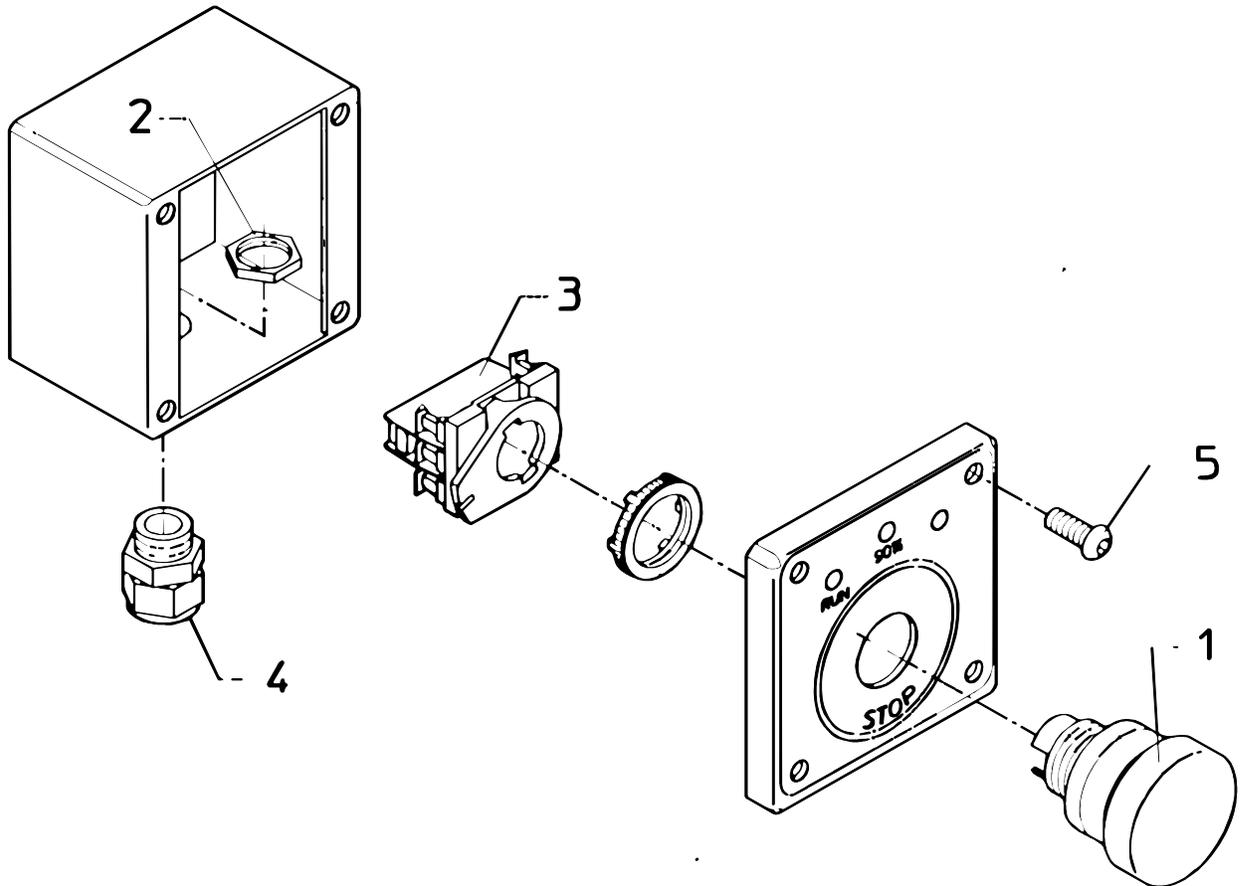
**RCL 5200**

	28227	RCL 5200 CONTROLLER	1
1.	28284	FRONT COVER (INCL. 2,3,5)	1
2.	28241	EMERGENCY STOP BUTTON (INCL. 9)	1
3.	28240	BUZZER	1
4.	28274	PLUG, DUST CAP	1
5.	28287	PLUG (INCL. 4)	1
6.	28259	FUSE, 4 AMP	2
7.	28416	NUT	7
8.	28415	NUT	16
9.	28242	ELEMENT SWITCH	1
10.	28246	LEAD-IN CABLE	1
11.	28247	PLUG	6
12.	28245	PLUG	10
13.	28244	LEAD-IN CABLE	6
14.	32222	SCREW BH ULS5X16	4
15.	30851	NUT M3	4
16.	31187	LOCK WASHER 3MM	4



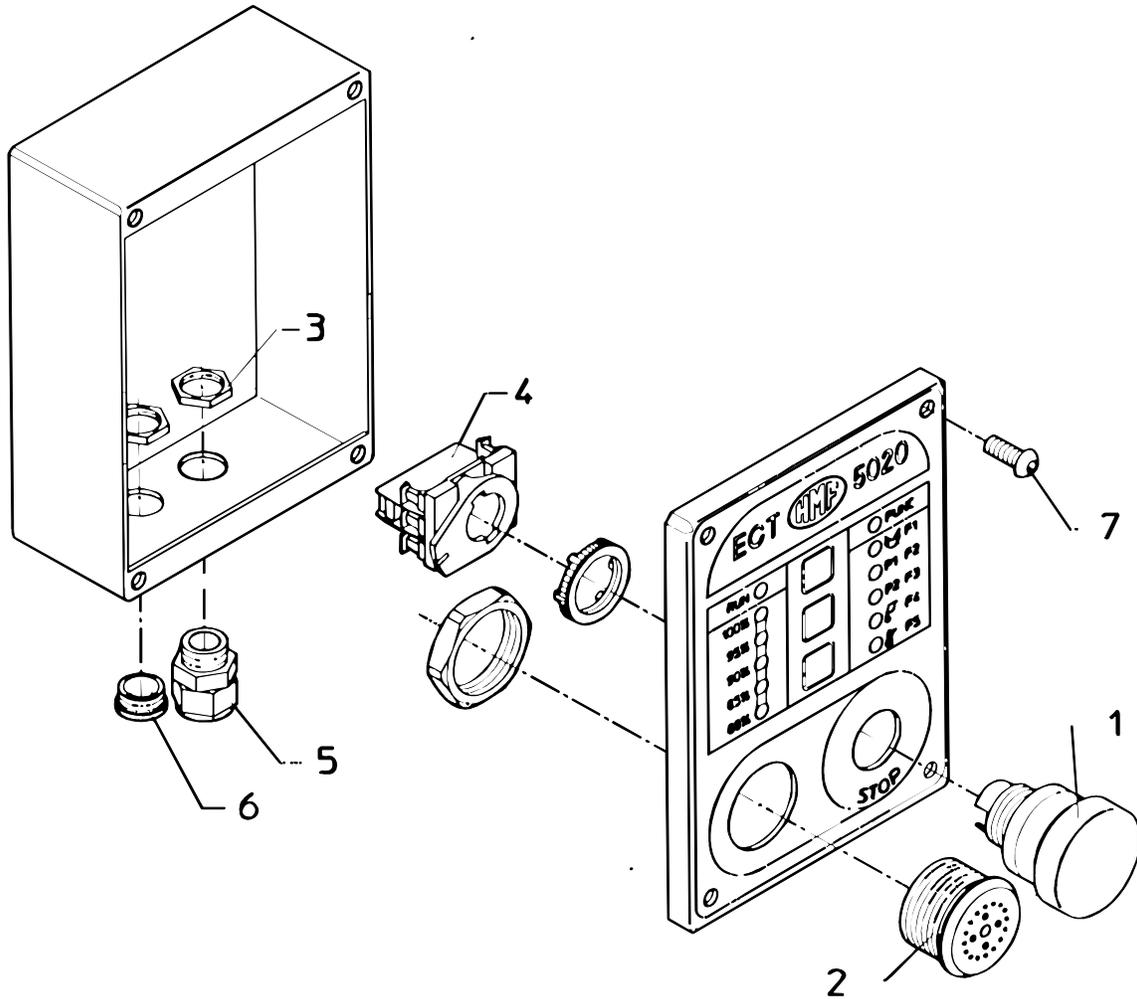
**ECT 5010**

	28230	EXTERNAL STOP BUTTON	1
1.	28241	EMERGENCY STOP BUTTON (INCL. 3)	1
2.	28416	NUT	1
3.	28242	ELEMENT SWITCH	1
4.	28246	LEAD-IN CABLE	1
5.	32222	SCREW	4



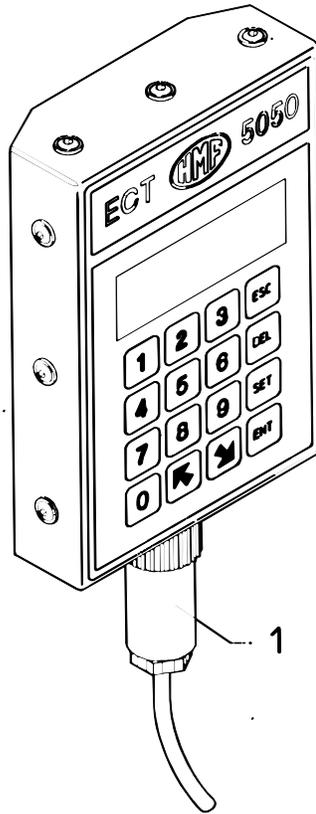
**ECT 5020**

28221	EXTERNAL INDICATOR PANEL	1
1. 28241	EMERGENCY STOP BUTTON (INCL. 4)	1
2. 28240	BUZZER	1
3. 28416	NUT	2
4. 28242	ELEMENT SWITCH	1
5. 28246	LEAD-IN CABLE	1
6. 28247	PLUG	1
7. 32222	SCREW	4



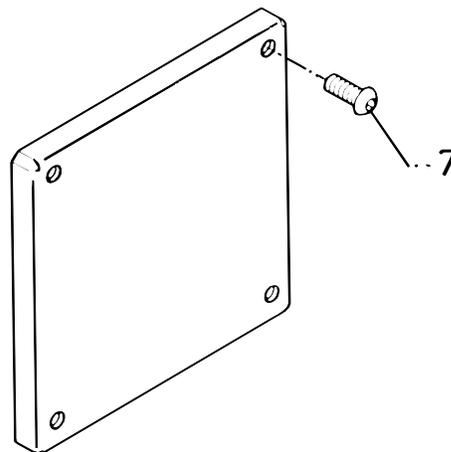
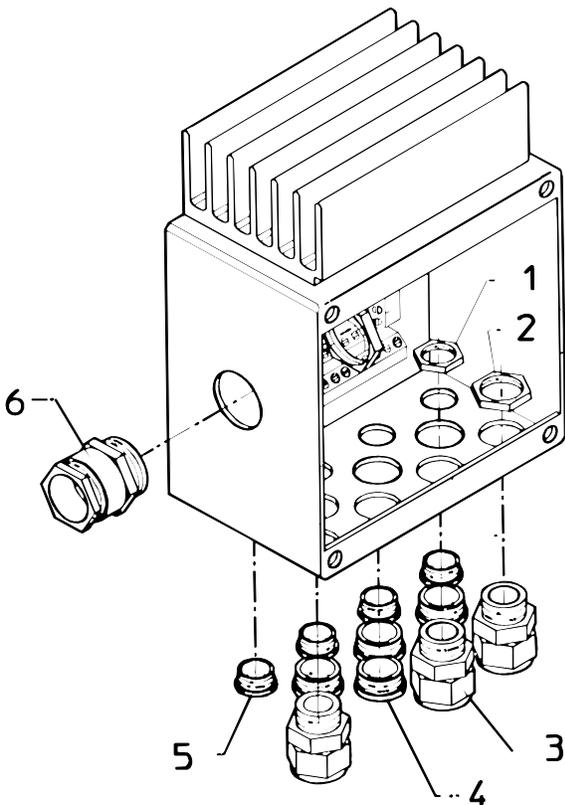
**ECT 5050**

	28253	SERVICE TERMINAL	1	
	28282	SERVICE TERMINAL & CABLE (INCL. 1)	1	1
1.	28279	INTERFACE CABLE, 3M	1	



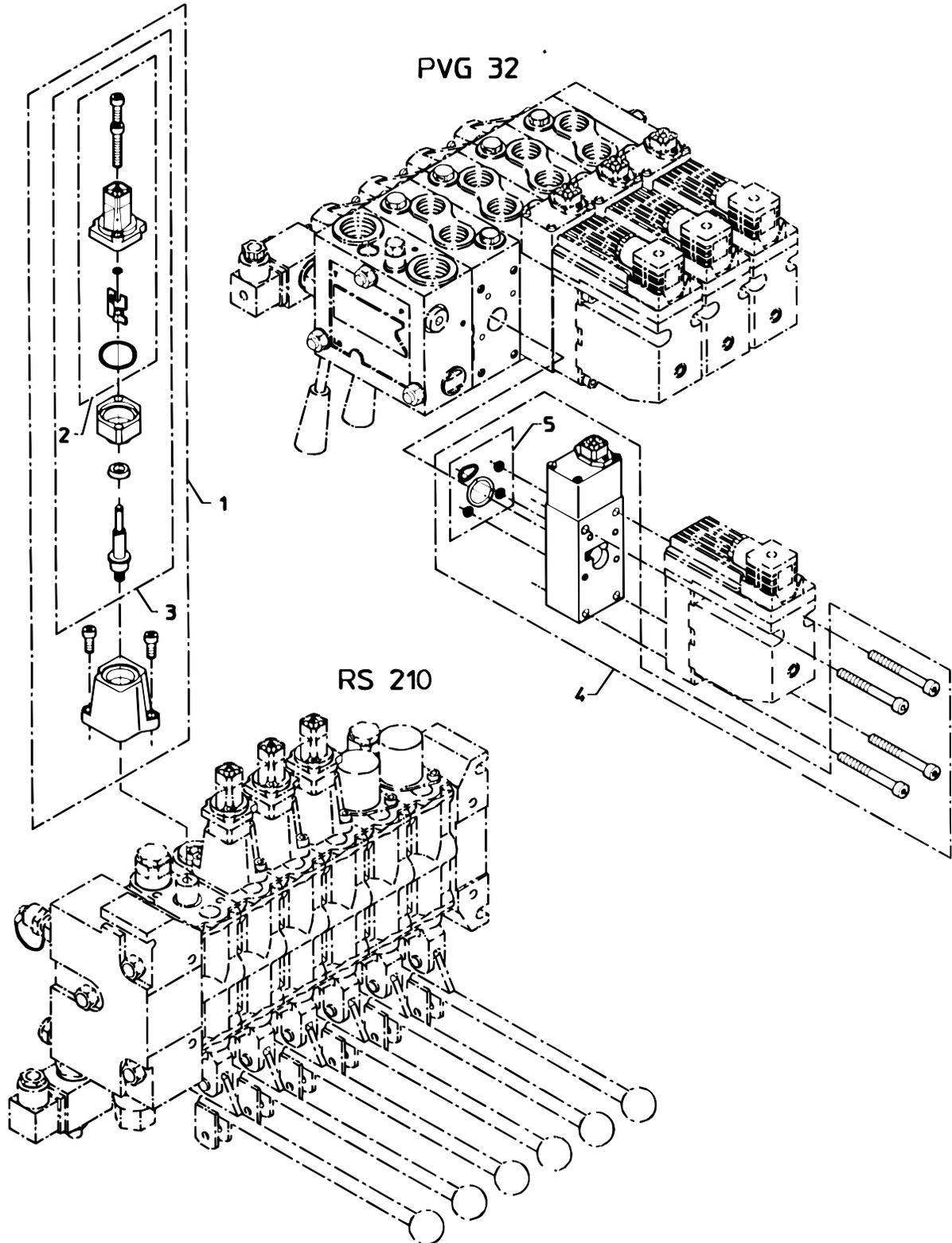
**EJB 5080**

	28277	POWER BOX	1
1.	28415	NUT	4
2.	28416	NUT	7
3.	28246	LEAD-IN CABLE	3
4.	28247	PLUG	4
5.	28245	PLUG	4
6.	28888	LEAD-IN CABLE	1
7.	32222	SCREW	4



**SPOOL SENSORS**

- |    |       |                   |   |
|----|-------|-------------------|---|
| 1. | 59594 | SPOOL SENSOR KIT  | 1 |
| 2. | 59243 | SPOOL SENSOR REP. | 1 |
| 3. | 59244 | SPOOL SENSOR REP. | 1 |
| 4. | 59676 | SPOOL SENSOR      | 1 |
| 5. | 59663 | SEAL KIT          | 1 |



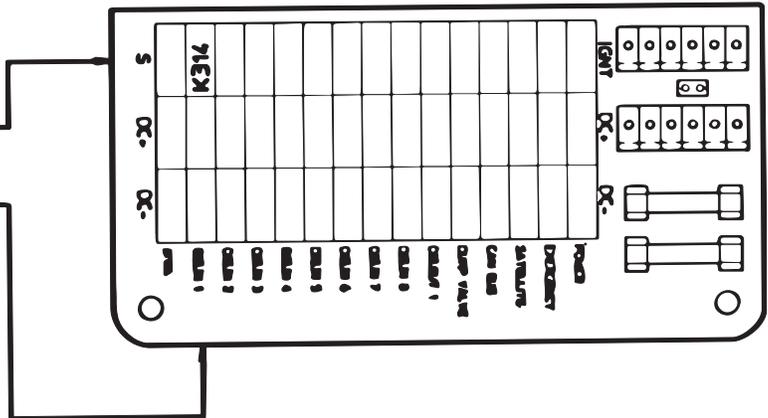
**RCL 5100, CABLE REFERENCES**

**LOCATING A TERMINAL SCREW IN THE CONTROLLER USING THE REFERENCE KEY**

TERMINAL K314

-ROW 3, COUNTING FROM THE BOTTOM UP

- COLUMN 14, COUNTING FROM THE RIGHT



**CABLE AND PLUG REFERENCES**

NO. OF THE TERMINAL SCREW

WIRE COLOR OR NUMBER

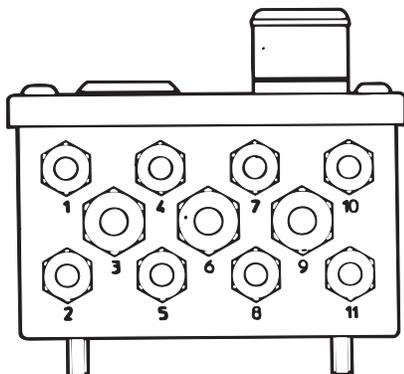
NO. OF THE INPUT/OUTPUT SIDE

CABLE NO.

NO. OF THE PLUG TERMINAL

-	S	1	1	K101
.	S	1	2	K201
IG	S	1	3	K301

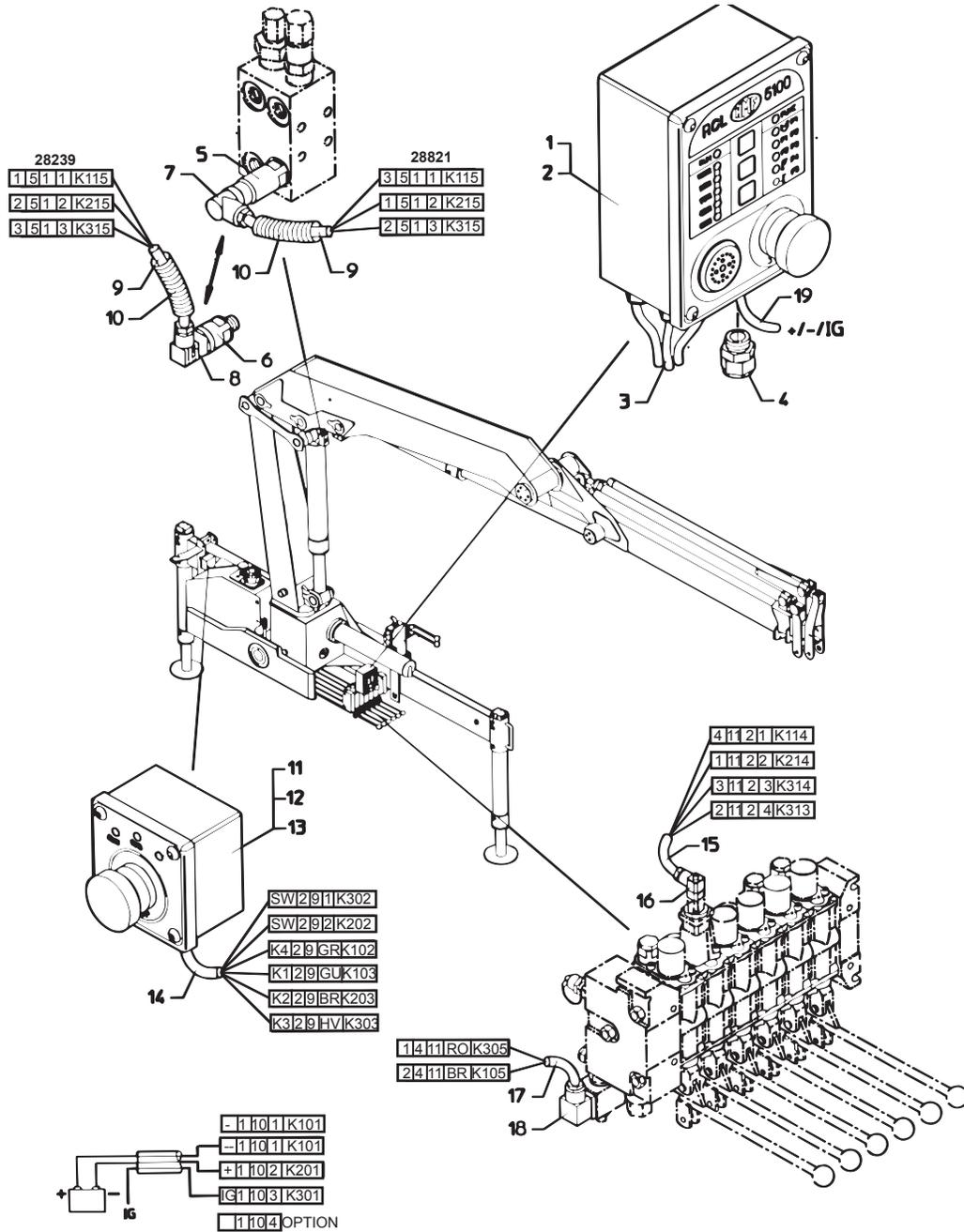
**USING INPUT REFERENCES FOR RCL 5100**



**RCL 5100, BASIC CONFIGURATION**

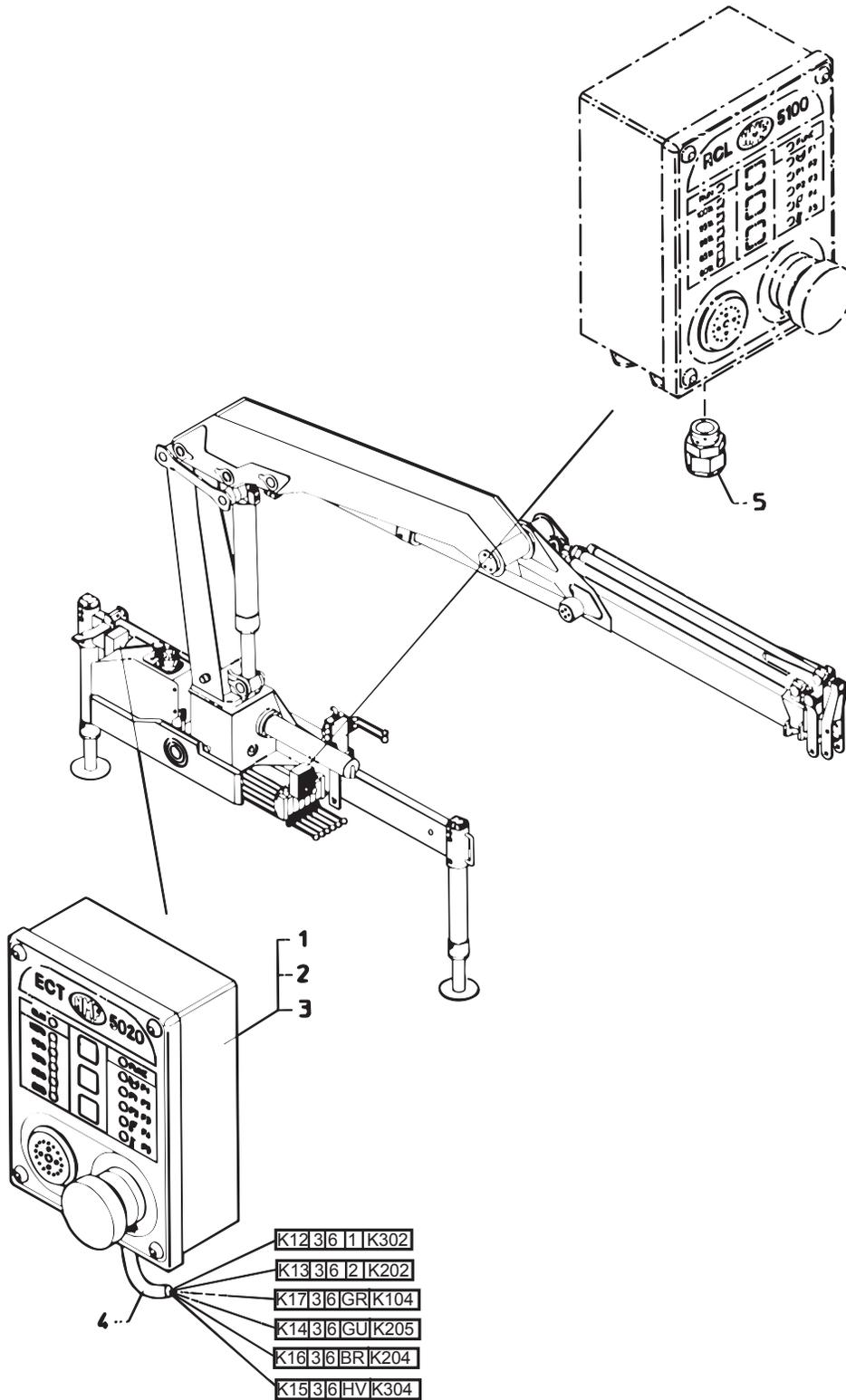
1.	28228	RCL 5100 CONTROLLER	1
2.	28229	CONTROLLER (INC. 3,5,6)	1
3.	28225	WIRING (INCL. 7-10, 15-19)	1
4.	28246	LEAD-IN CABLE	1
5.	28235	PRESSURE TRANSDUCER	1
6.	28239	PRESSURE TRANSDUCER (INCL. 8)	1
7.	28256	PLUG, TRANSDUCER	1
8.	28251	PLUG, TRANSDUCER	1
9.	28266	PRESSURE TRANS. CABLE (INCL. 7)	1

10.	27579	FLEXIBLE PIPE	1
11.	28230	EXTERNAL STOP BUTTON	1
12.	28231	EXTERNAL STOP BUTTON (INCL. 14, 2.5 M)	1
13.	28261	EXTERNAL STOP BUTTON (INCL. 14, 3.5M)	1
14.	28263	CAN BUS CABLE	1
15.	28267	SPOOL SENSOR CABLE (INCL. 16)	1
16.	28257	PLUG, SPOOL SENSOR	1
17.	28265	CABLE, SOLENOID VALVE (INCL. 18)	1
18.	28258	PLUG, SOLENOID VALVE	1
19.	28264	CABLE, MAIN SUPPLY	1



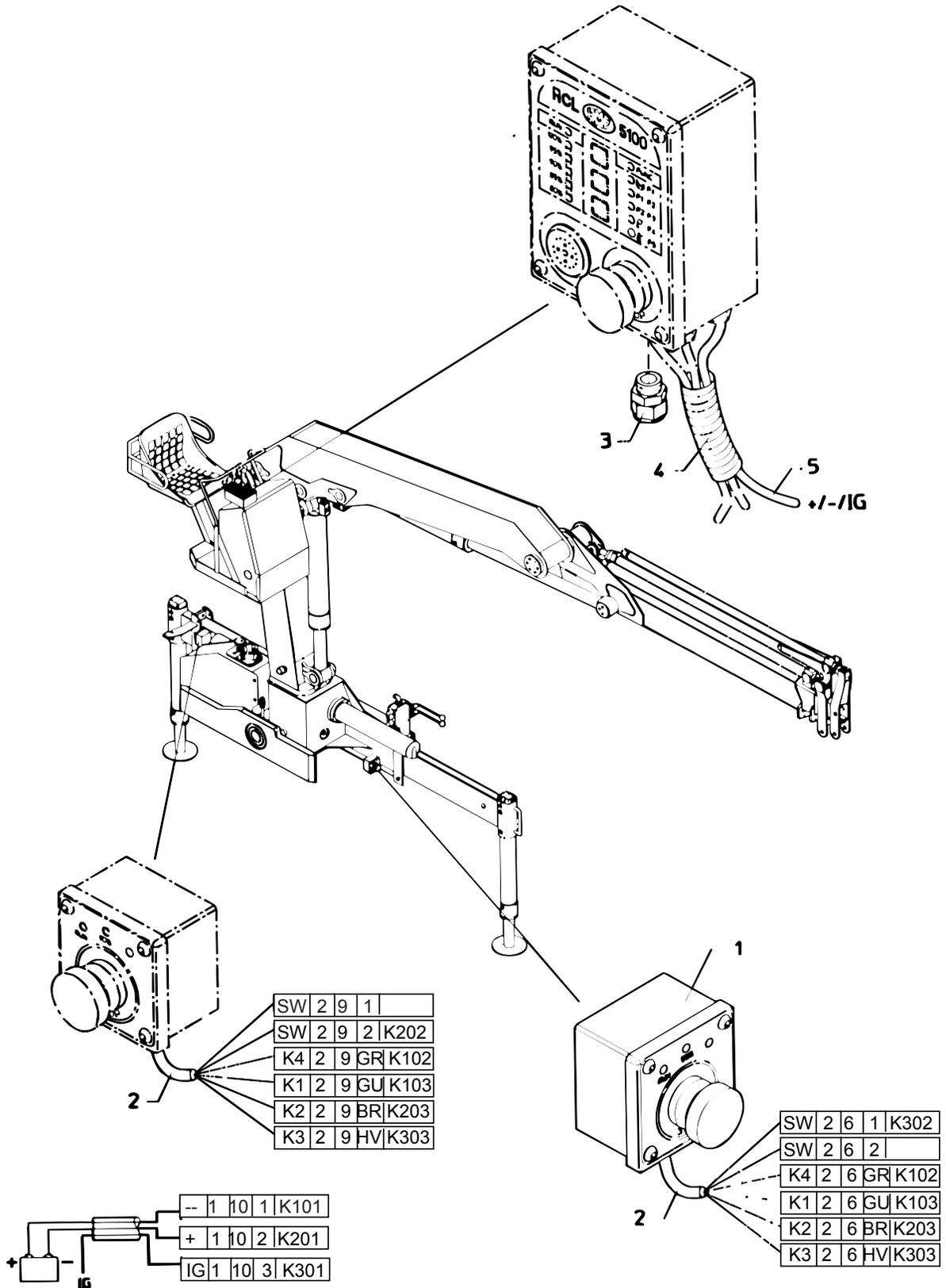
**RCL 5100, ECT 5020**

- 1. 28221 EXTERNAL INDICATOR PANEL 1
- 2. 28222 EXTERNAL INDICATOR PANEL 1  
(INCL. 4, 2.5 M)
- 3. 28223 EXTERNAL STOP BUTTON 1  
(INCL. 4, 3.5M)
- 4. 28263 CAN BUS CABLE 1
- 5. 28246 LEAD-IN CABLE 1



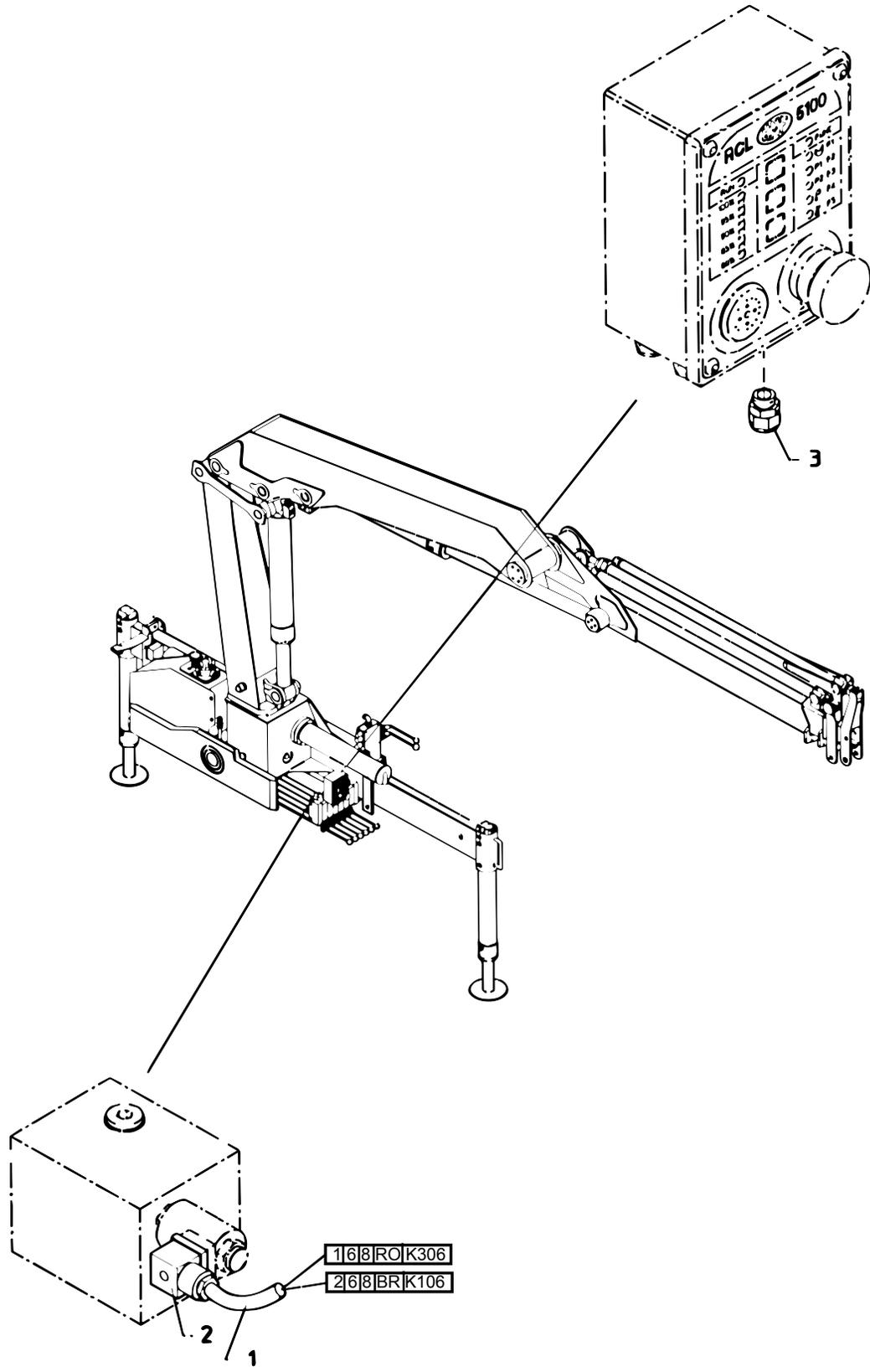
**RCL 5100, TS**

- 1. 28230 EXTERNAL STOP BUTTON 1
- 2. 28263 CAN BUS CABLE (4 M/ 6 M) 2
- 3. 28246 LEAD-IN CABLE 1
- 4. 27580 FLEXIBLE PIPE 1
- 5. 28240 CABLE 3 X 0.50 - 7M 1



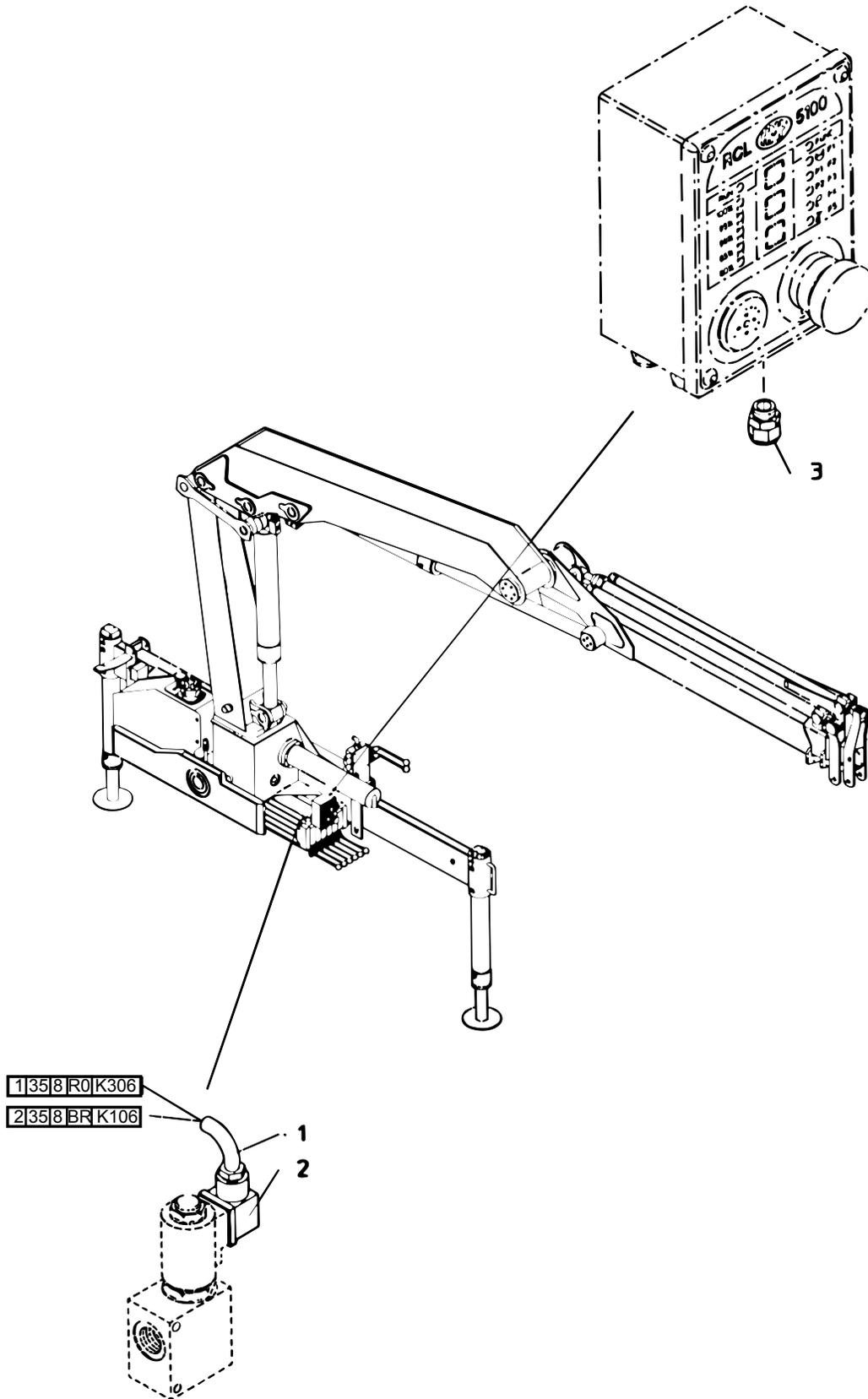
**RCL 5100, HDL 2**

- |    |       |                                    |   |
|----|-------|------------------------------------|---|
| 1. | 28265 | CABLE, SOLENOID VALVE<br>(INCL. 2) | 1 |
| 2. | 28258 | PLUG, SOLENOID VALVE               | 1 |
| 3. | 28244 | LEAD-IN CABLE                      | 1 |



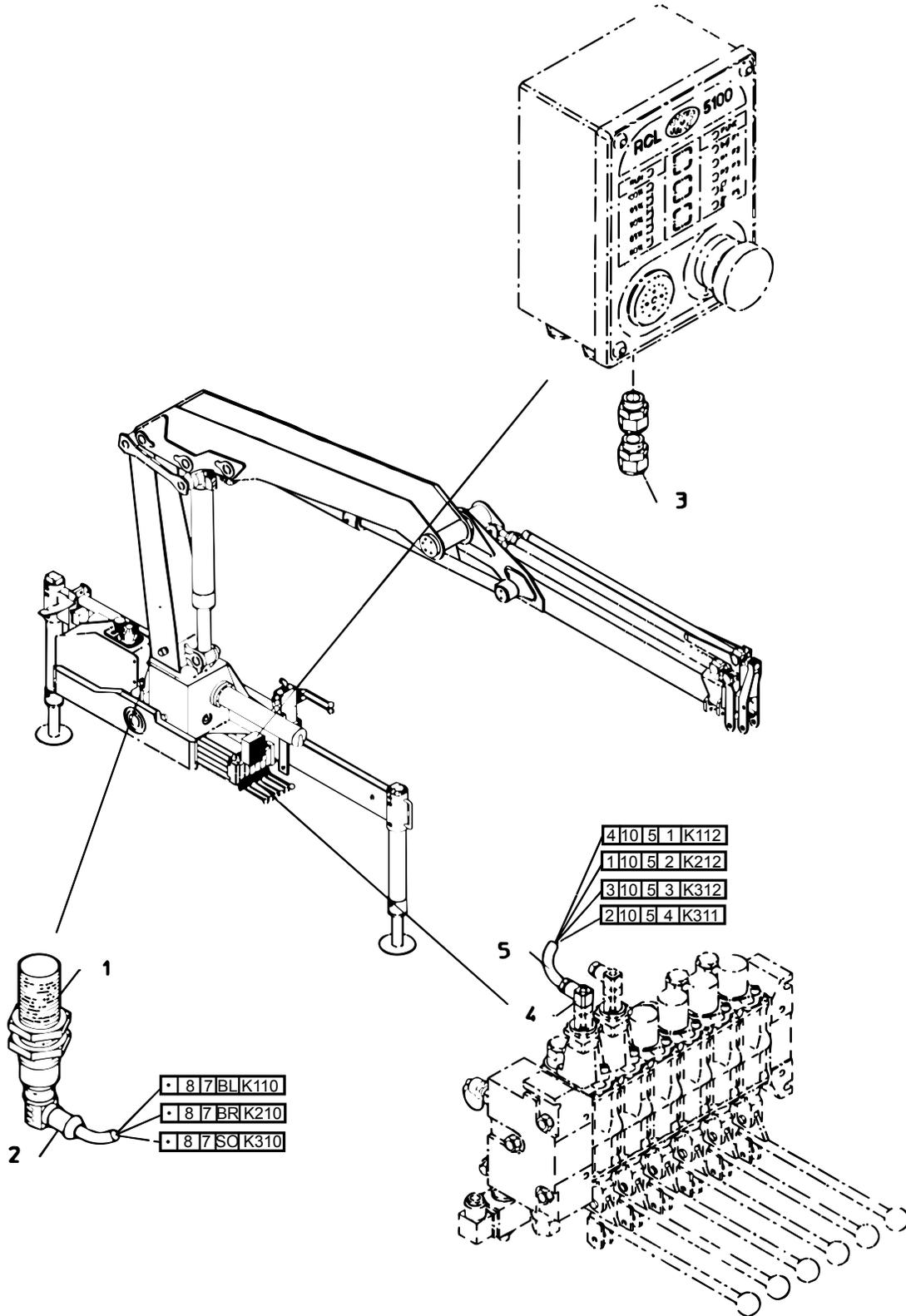
### RCL 5100, DUAL CIRCUIT

- |    |       |                       |   |
|----|-------|-----------------------|---|
| 1. | 28265 | CABLE, SOLENOID VALVE | 1 |
| 2. | 28258 | PLUG, SOLENOID VALVE  | 1 |
| 3. | 28244 | LEAD-IN CABLE         | 1 |



**RCL 5100, 2-STAGE LMB, 2.1**

- |    |       |   |   |
|----|-------|---|---|
| 1. | 28210 | INDUCTIVE SENSOR                            | 1 |
| 2. | 28077 | PLUG, INDUCTIVE SENSOR)<br>(INCL. LEDN. 5M) | 1 |
| 3. | 28244 | LEAD-IN CABLE                               | 2 |
| 4. | 28257 | PLUG, SPOOL SENSOR                          | 1 |
| 5. | 28267 | CABLE, SPOOL SENSOR                         | 1 |

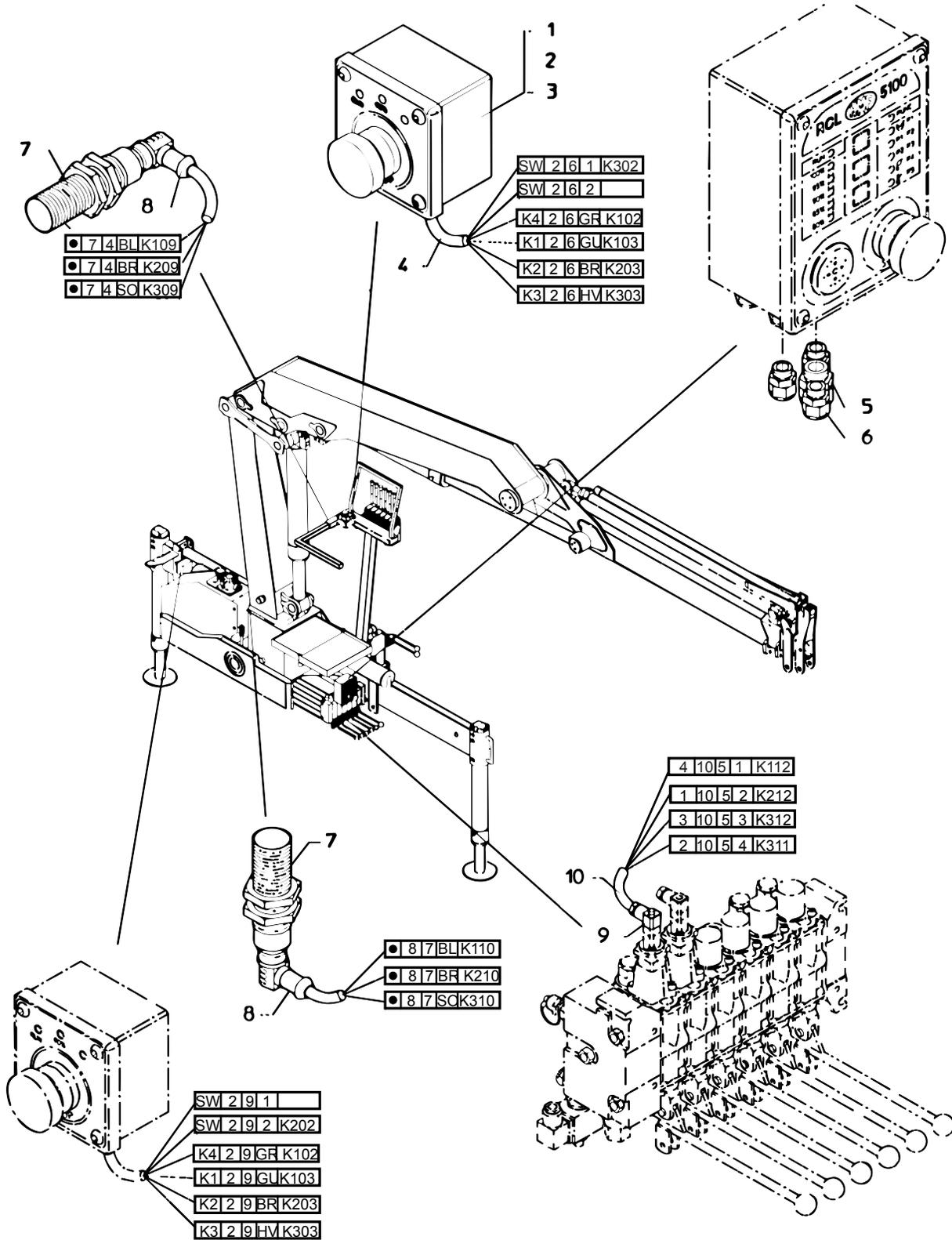


**RCL 5100, HS 2.2-2**

- 1. 28230 EXTERNAL STOP BUTTON
- 2. 28231 EXTERNAL STOP BUTTON (INCL. 4, 2.5 M)
- 3. 28261 EXTERNAL STOP BUTTON (INCL. 4, 3.5 M)
- 4. 28263 CAN BUS CABLE

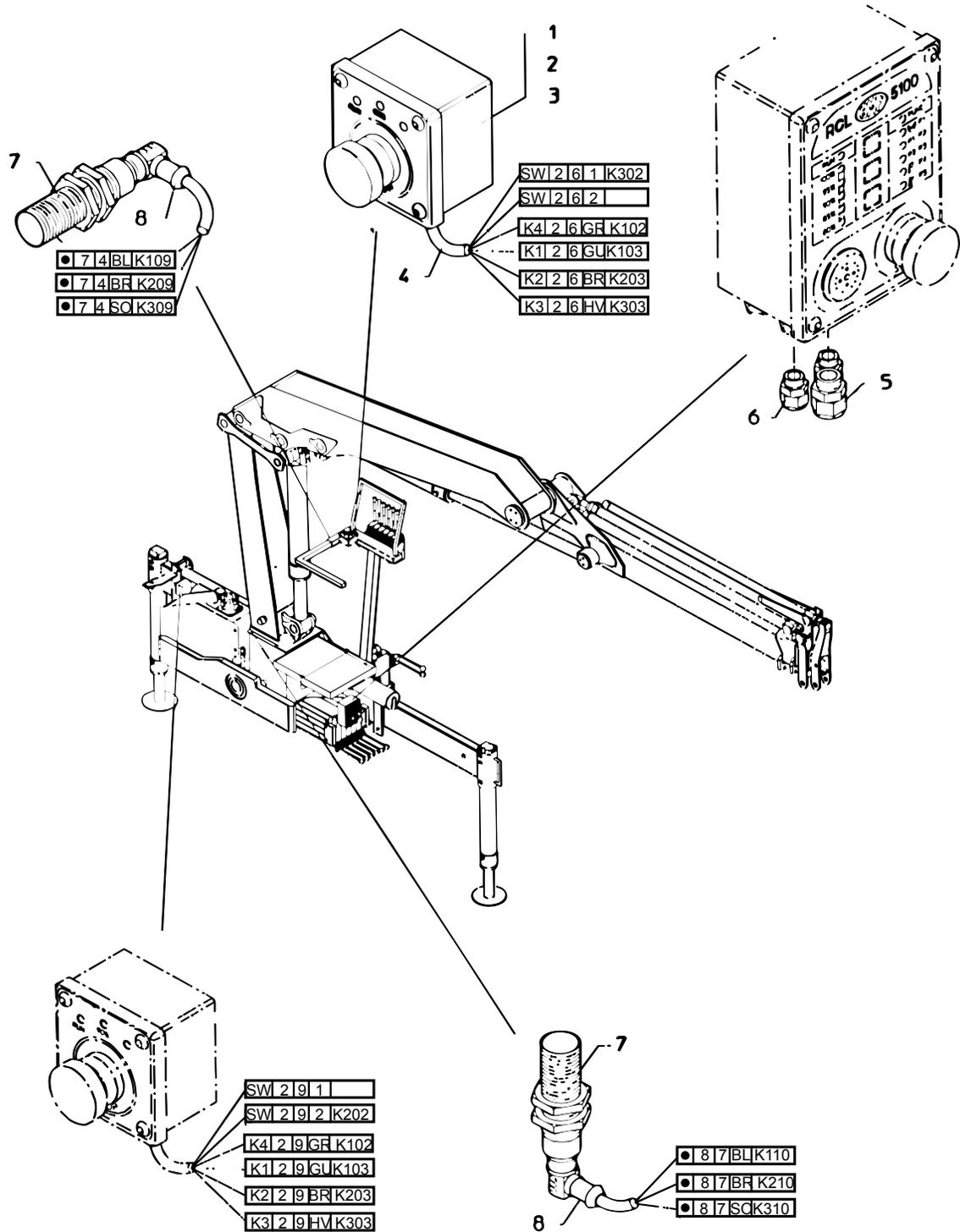
- 5. 28246 LEAD-IN CABLE
- 6. 28244 LEAD-IN CABLE
- 7. 28210 INDUCTIVE SENSOR
- 8. 28077 PLUG, INDUCTIVE SENSOR (INCL. LEDN. 5M)
- 9. 28257 PLUG, SPOOL SENSOR
- 10. 28267 CABLE, SPOOL SENSOR

- 1 LEAD-IN CABLE
- 3 LEAD-IN CABLE
- 2 INDUCTIVE SENSOR
- 2 PLUG, INDUCTIVE SENSOR (INCL. LEDN. 5M)
- 1 PLUG, SPOOL SENSOR
- 1 CABLE, SPOOL SENSOR



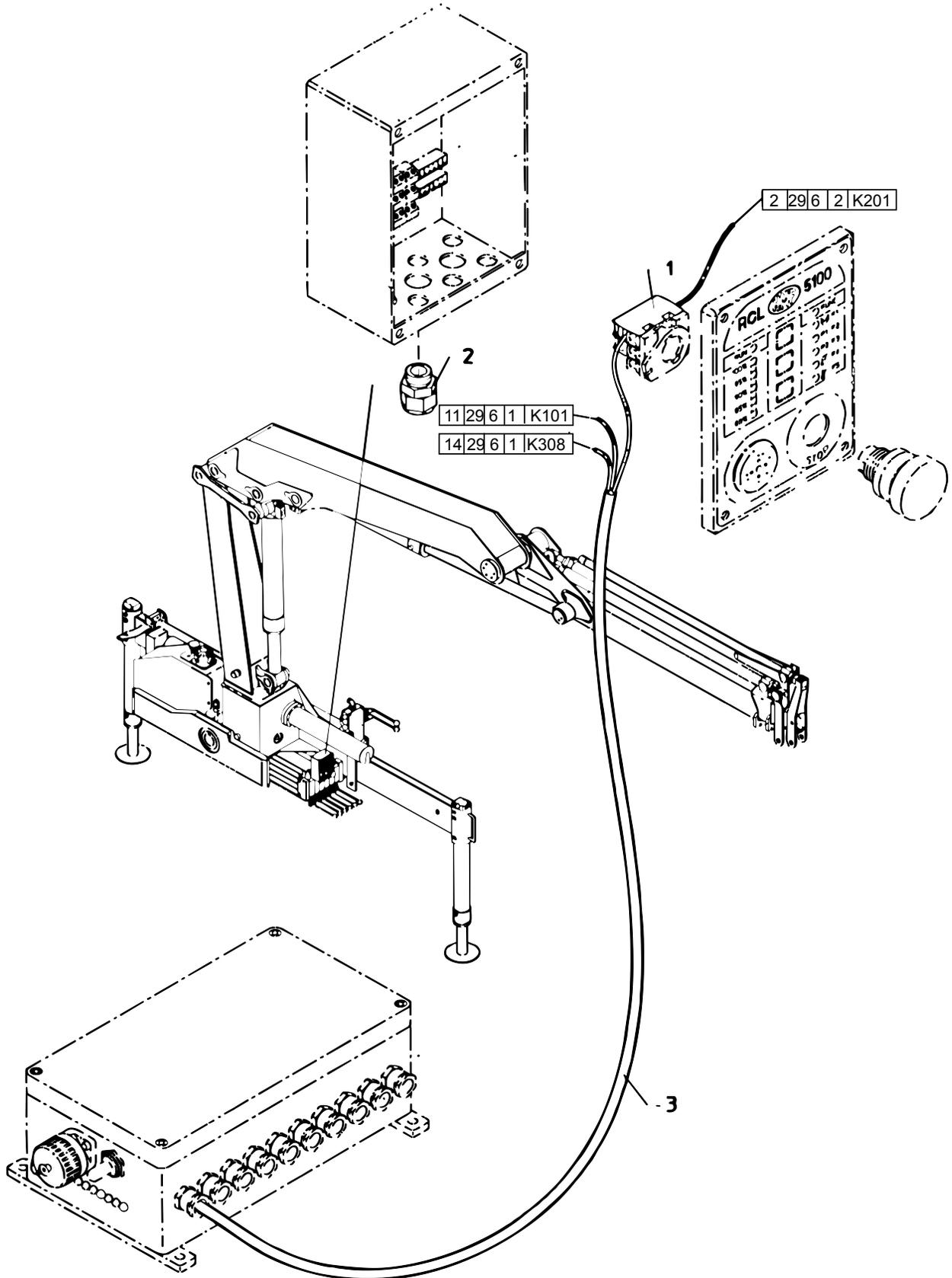
**RCL 5100, HS 2.2-4**

- |    |       |  |   |
|----|-------|--|---|
| 1. | 28230 | EXTERNAL STOP BUTTON                       | 1 |
| 2. | 28231 | EXTERNAL STOP BUTTON<br>(INCL. 4, 2.5M)    | 1 |
| 3. | 28261 | EXTERNAL STOP BUTTON<br>(INCL. 4, 3.5M)    | 1 |
| 4. | 28263 | CAN BUS CABLE                              | 1 |
| 5. | 28246 | LEAD-IN CABLE                              | 1 |
| 6. | 28244 | LEAD-IN CABLE                              | 2 |
| 7. | 28210 | INDUCTIVE SENSOR                           | 2 |
| 8. | 28077 | PLUG, INDUCTIVE SENSOR<br>(INCL. LEDN. 5M) | 2 |



### RCL 5100, REMOTE CONTROL

- 1. 28242 SWITCH ELEMENT 1
- 2. 28246 LEAD-IN CABLE 1
- 3. 28250 CABLE 3 X 0.50 1



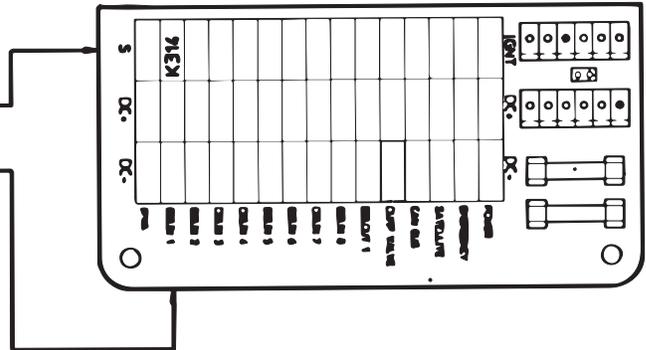
**RCL 5200 CABLE REFERENCES**

**LOCATING A TERMINAL SCREW IN THE CONTROLLER USING THE REFERENCE KEY**

TERMINAL K314 KEY:

ROW 3 FROM THE BOTTOM

COLUMN 14 FROM THE RIGHT



**CABLE AND PLUG REFERENCES**

TERMINAL SCREW NUMBER

WIRE COLOR OR NUMBER

INPUT/OUTPUT SIDE NUMBER

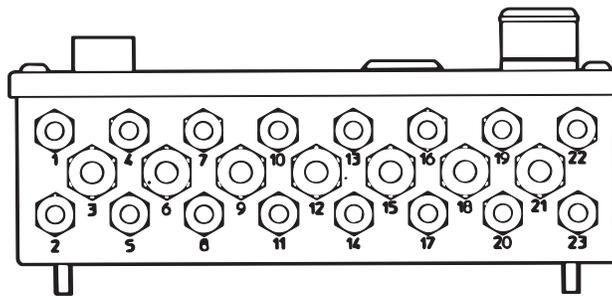
CABLE NUMBER

PLUG TERMINAL NUMBER

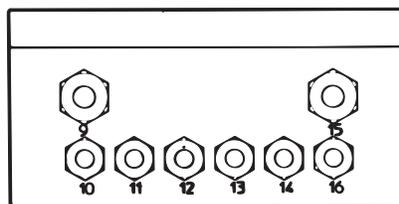
-	S	1	1	K101
.	S	1	2	K201
IG	S	1	3	K301

**USING INPUT REFERENCES FOR RCL 5200/EJB 5080**

RCL 5200



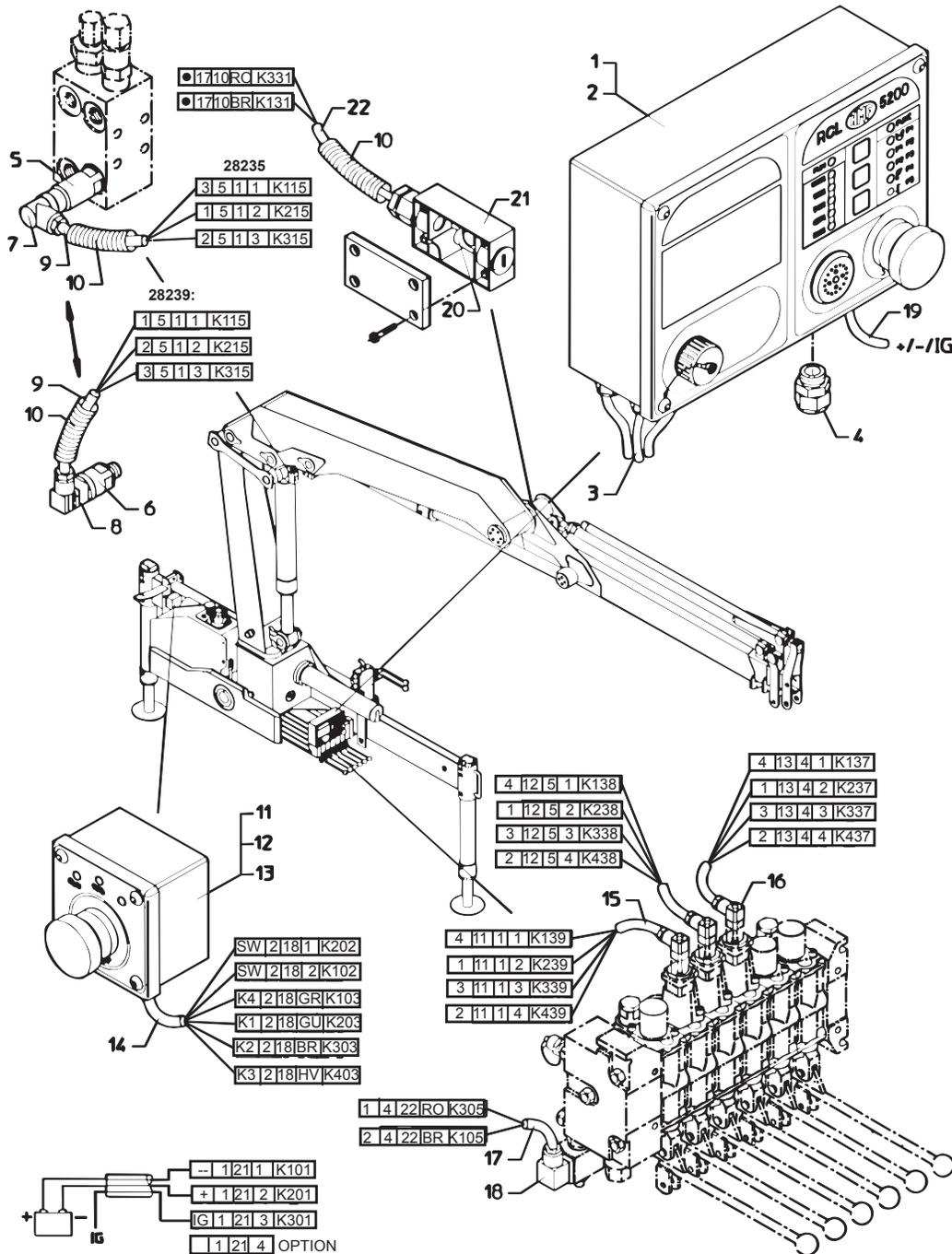
EJB 5080



**RCL 5200 BASIC CONFIGURATION**

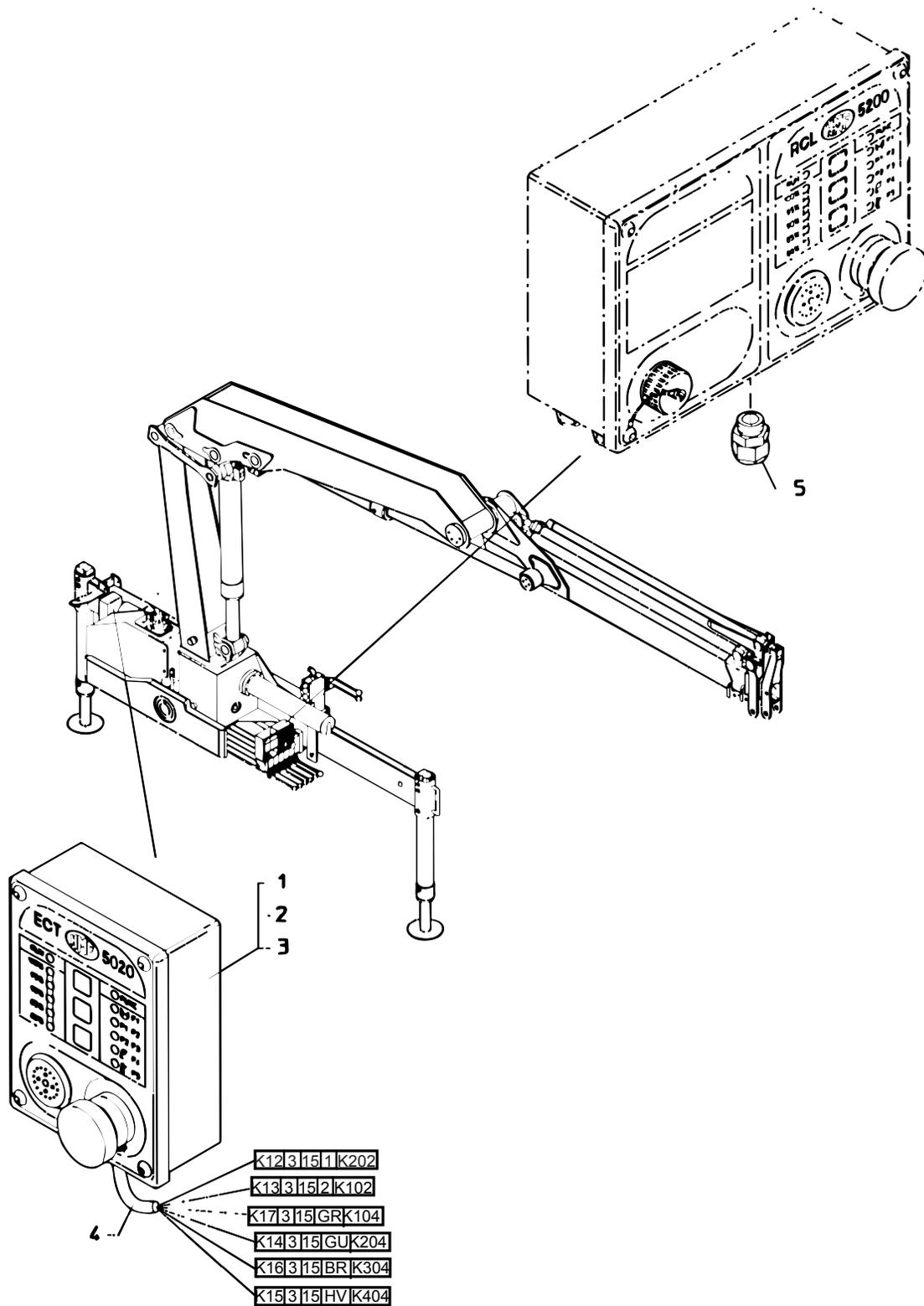
1.	28227	RCL 5200 CONTROLLER	1
2.	28234	CONTROLLER (INCL. 3,5,6)	1
3.	28224	WIRING (INCL. 7-10, 15-19, 22)	1
4.	28246	LEAD-IN CABLE	1
5.	28235	PRESSURE TRANSDUCER	1
6.	28239	PRESSURE TRANSDUCER (INCL. 8)	1
7.	28256	PLUG, TRANSDUCER	1
8.	28251	PLUG, TRANSDUCER	1
9.	28266	PRESSURE TRANS. CABLE (INCL. 7)	1
10.	27579	FLEXIBLE PIPE	2
11.	28230	EXTERNAL STOP BUTTON	1

12.	28231	EXTERNAL STOP BUTTON (INCL. 14, 2.5 M)	1
13.	28261	EXTERNAL STOP BUTTON (INC. 14, 3.5 M)	1
14.	28263	CAN BUS CABLE	1
15.	28267	SPOOL SENSOR CABLE (INCL. 16)	3
16.	28257	PLUG, SPOOL SENSOR	3
17.	28265	CABLE, SOLENOID VALVE (INCL. 18)	1
18.	28258	PLUG, SOLENOID VALVE	1
19.	28264	CABLE, MAIN SUPPLY	1
20.	27970	MERCURY SWITCH	1
21.	27388	CONNECTION BOX	1
22.	28270	CABLE, MERCURY SWITCH	1



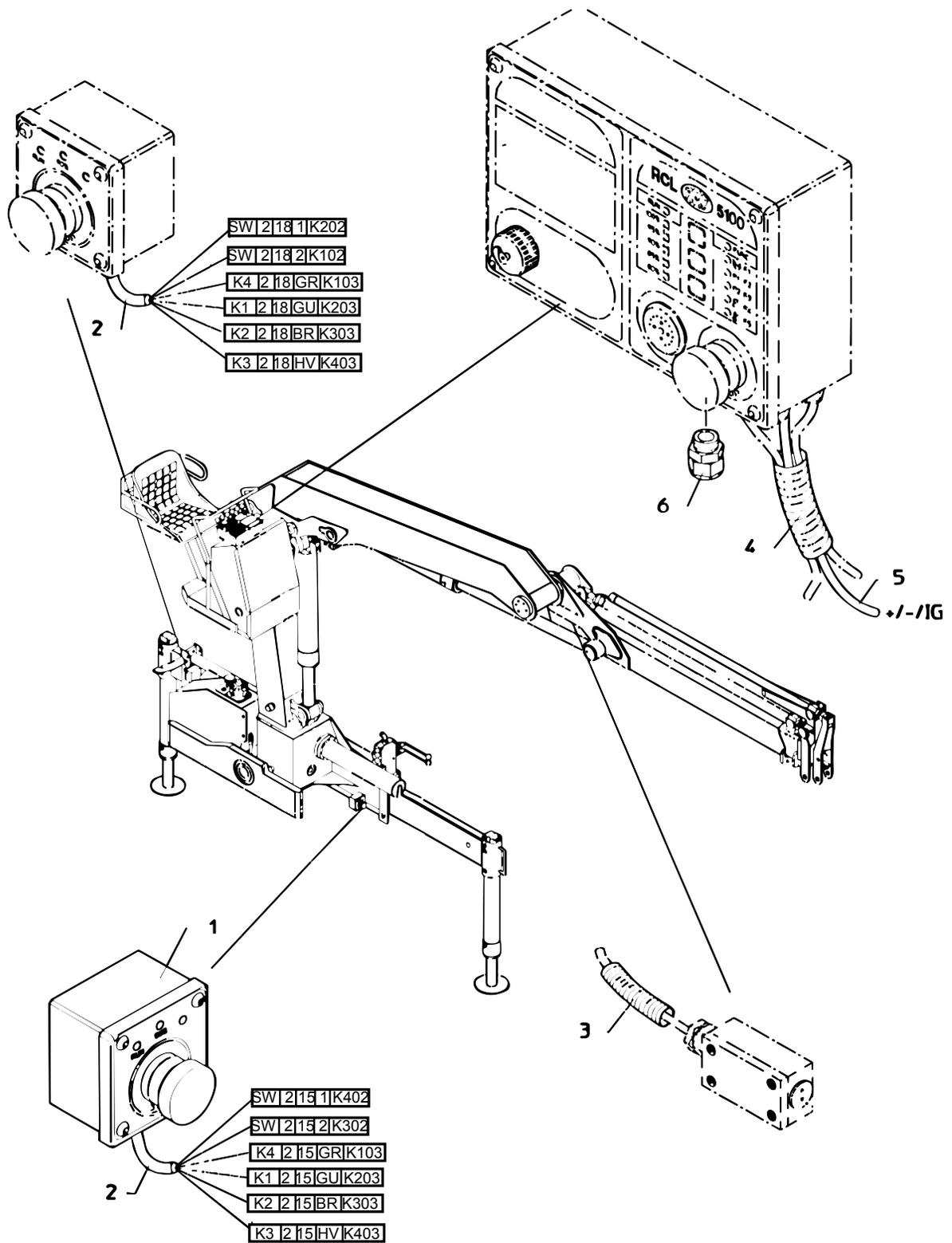
**RCL 5200, ECT 5020**

- |    |       |   |   |
|----|-------|---|---|
| 1. | 28221 | EXTERNAL INDICATOR PANEL                    | 1 |
| 2. | 28222 | EXTERNAL INDICATOR PANEL<br>(INCL. 4, 2.5M) | 1 |
| 3. | 28223 | EXTERNAL STOP BUTTON<br>(INCL. 4, 3.5M)     | 1 |
| 4. | 28263 | CAN BUS CABLE                               | 1 |
| 5. | 28246 | LEAD-IN CABLE                               | 1 |



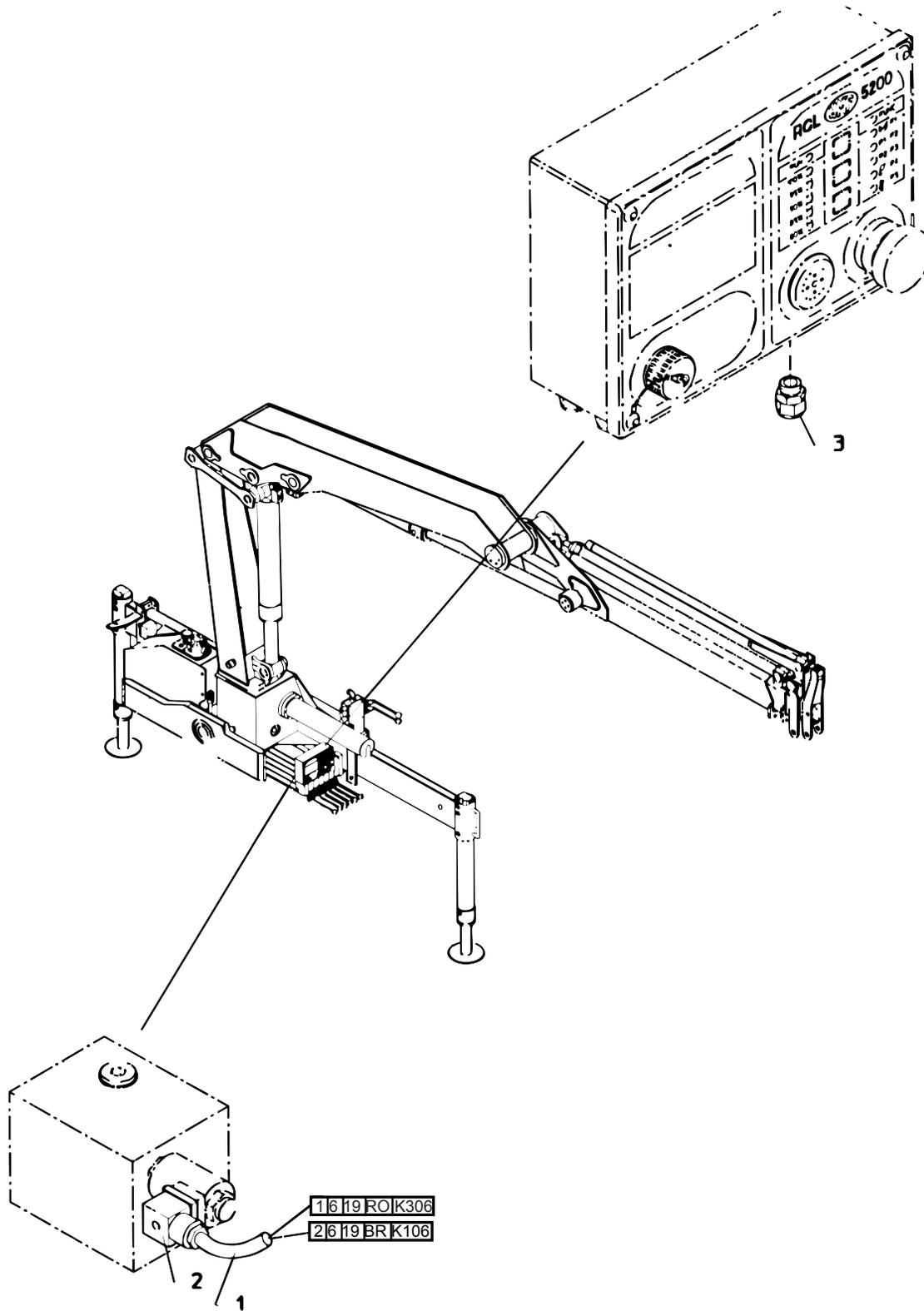
**RCL 5200, TS**

- |    |       |                       |   |
|----|-------|-----------------------|---|
| 1. | 28230 | EXTERNAL STOP BUTTON  | 1 |
| 2. | 28263 | CAN BUS CABLE 4M/6M   | 2 |
| 3. | 27579 | FLEXIBLE PIPE         | 1 |
| 4. | 27580 | FLEXIBLE PIPE         | 1 |
| 5. | 28262 | CABLE 4 X 0.75 - 10 M | 1 |
| 6. | 28246 | LEAD-IN CABLE         | 1 |



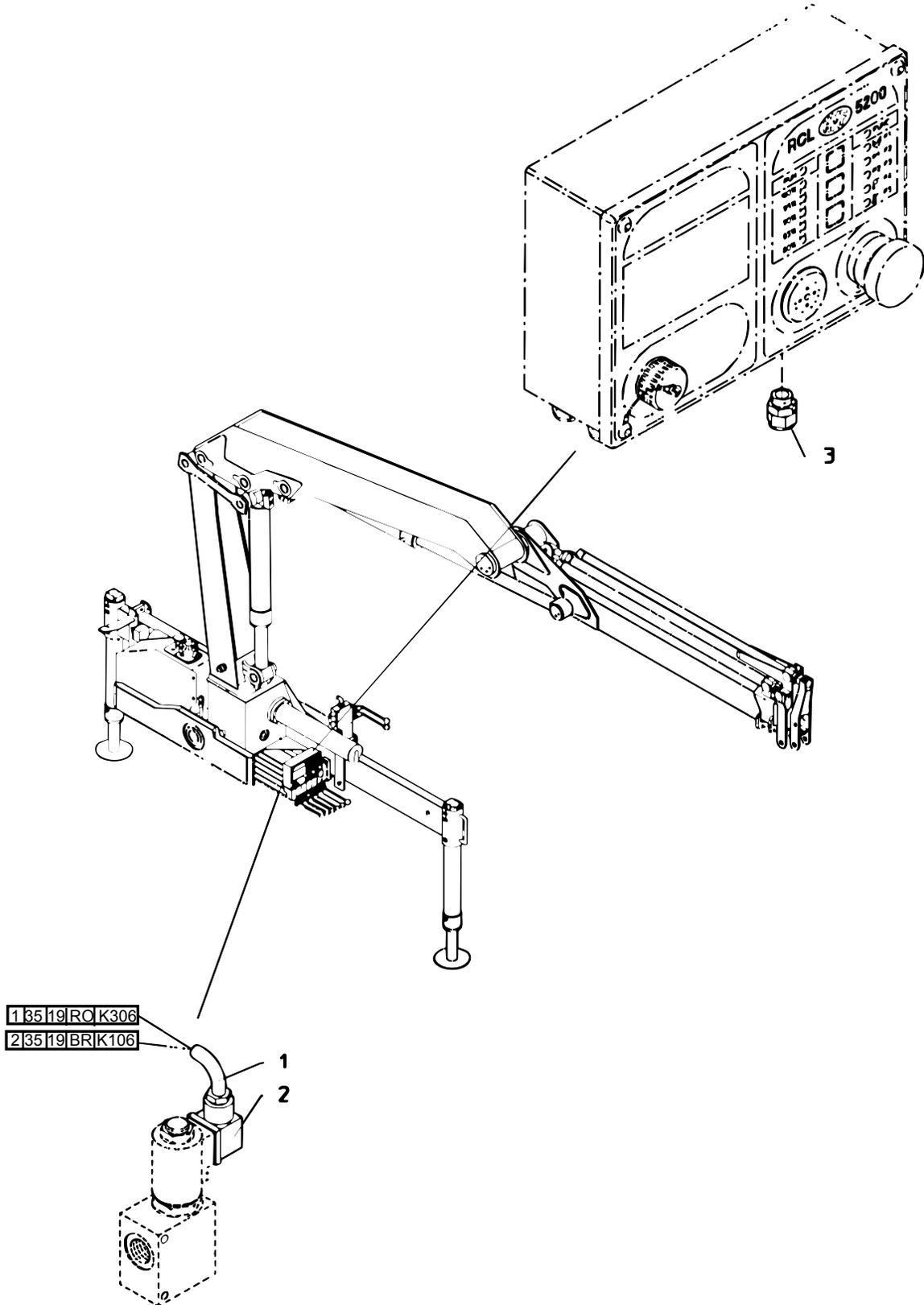
**RCL 5200, HDL 2**

- 1. 28265 CABLE, SOLENOID VALVE (INCL. 2) 1
- 2. 28258 PLUG, SOLENOID VALVE 1
- 3. 28244 LEAD-IN CABLE 1



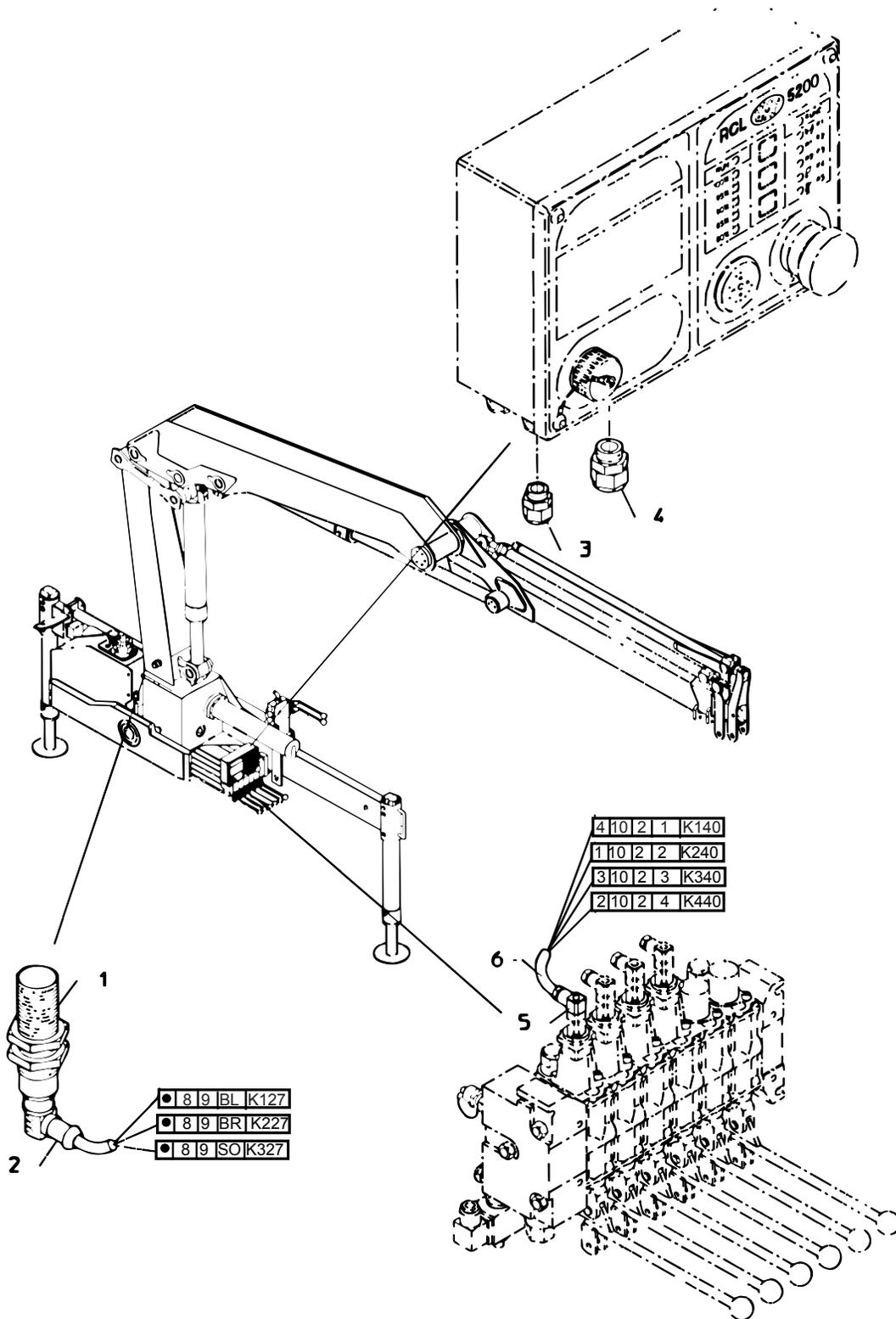
### RCL 5200, DUAL CIRCUIT

- |    |       |                                    |   |
|----|-------|------------------------------------|---|
| 1. | 28265 | CABLE, SOLENOID VALVE<br>(INCL. 2) | 1 |
| 2. | 28258 | PLUG, SOLENOID VALVE               | 1 |
| 3. | 28244 | LEAD-IN CABLE                      | 1 |



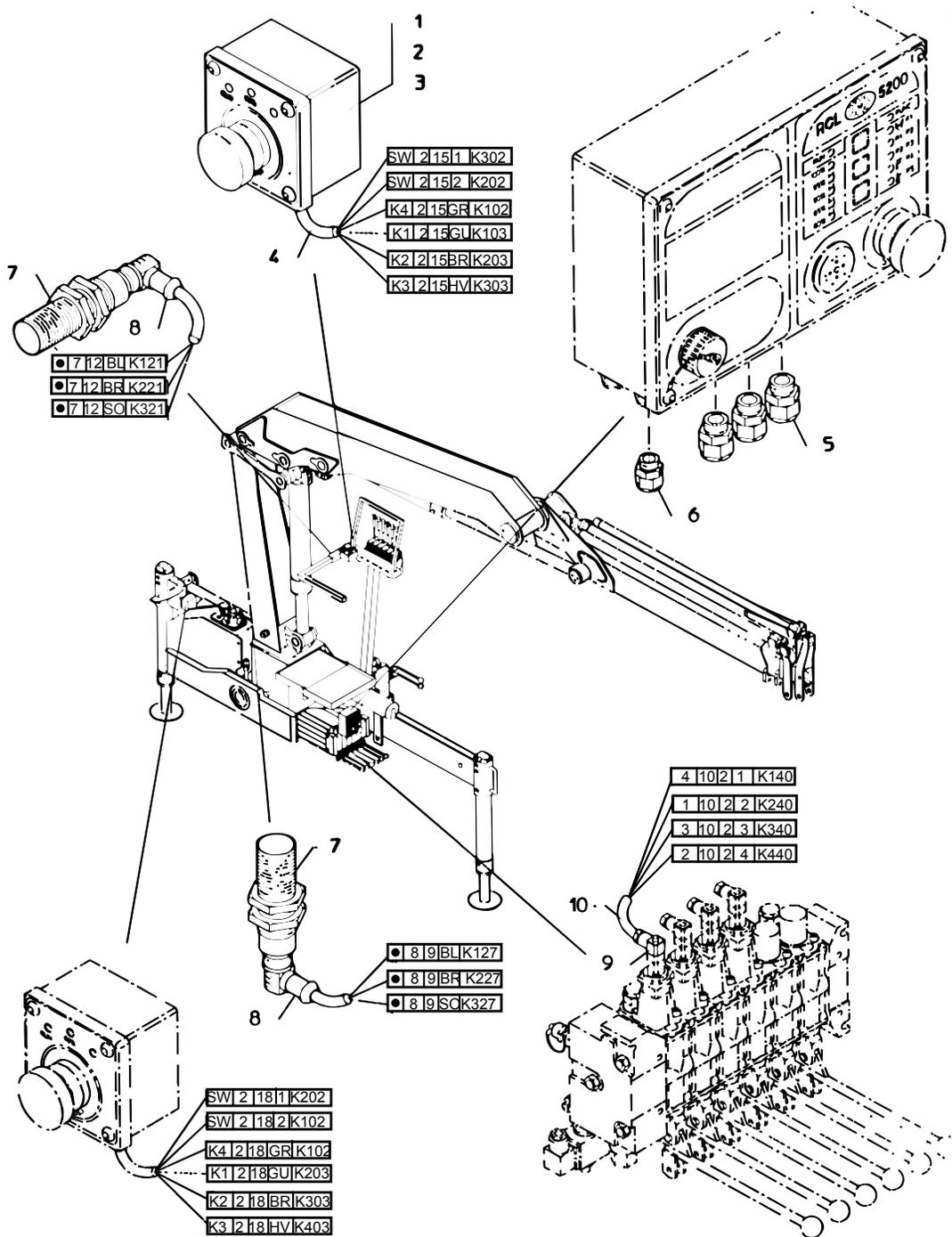
**RCL 5200, 2-STAGE LMG 2.1**

- |    |       |   |   |
|----|-------|---|---|
| 1. | 28210 | INDUCTIVE SENSOR                          | 1 |
| 2. | 28077 | PLUG, INDUCTIVE SENSOR<br>(INCL. LEDN 5M) | 1 |
| 3. | 28244 | LEAD-IN CABLE                             | 1 |
| 4. | 28246 | LEAD-IN CABLE                             | 1 |
| 5. | 28257 | PLUG, SPOOL SENSOR                        | 1 |
| 6. | 28267 | CABLE, SPOOL SENSOR                       | 1 |



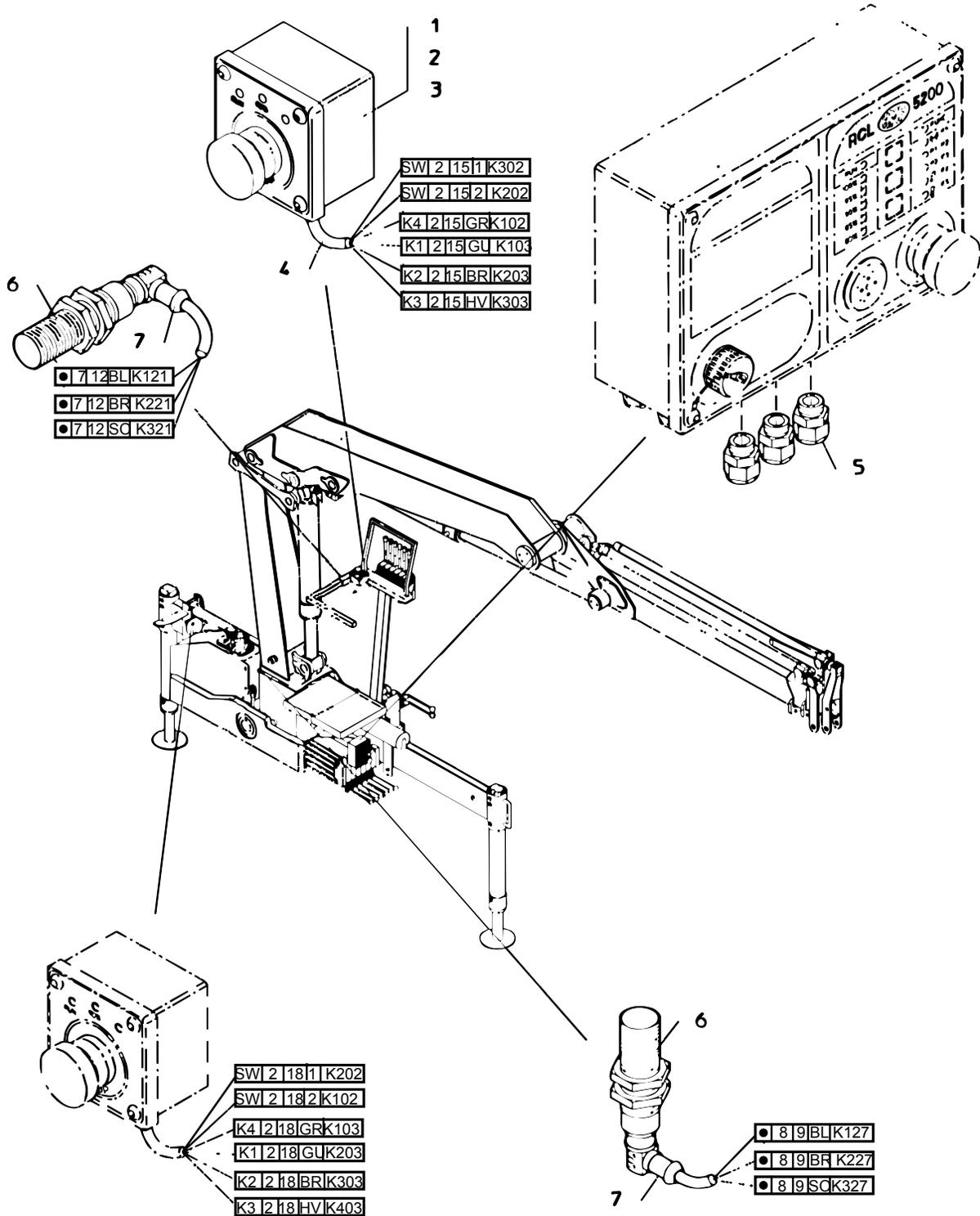
**RCL 5200, HS 2.2-2**

1.	28230	EXTERNAL STOP BUTTON	1
2.	28231	EXTERNAL STOP BUTTON (INC. 4, 2.5 M)	1
3.	28261	EXTERNAL STOP BUTTON (INCL. 4, 3.5M)	1
4.	28263	CAN BUS CABLE	1
5.	28246	LEAD-IN CABLE	3
6.	28244	LEAD-IN CABLE	1
7.	28210	INDUCTIVE SENSOR	2
8.	28077	PLUG, INDUCTIVE SENSOR (INCL. LEDN. 5M)	1
9.	28257	PLUG, SPOOL SENSOR	1
10.	28267	CABLE, SPOOL SENSOR	1



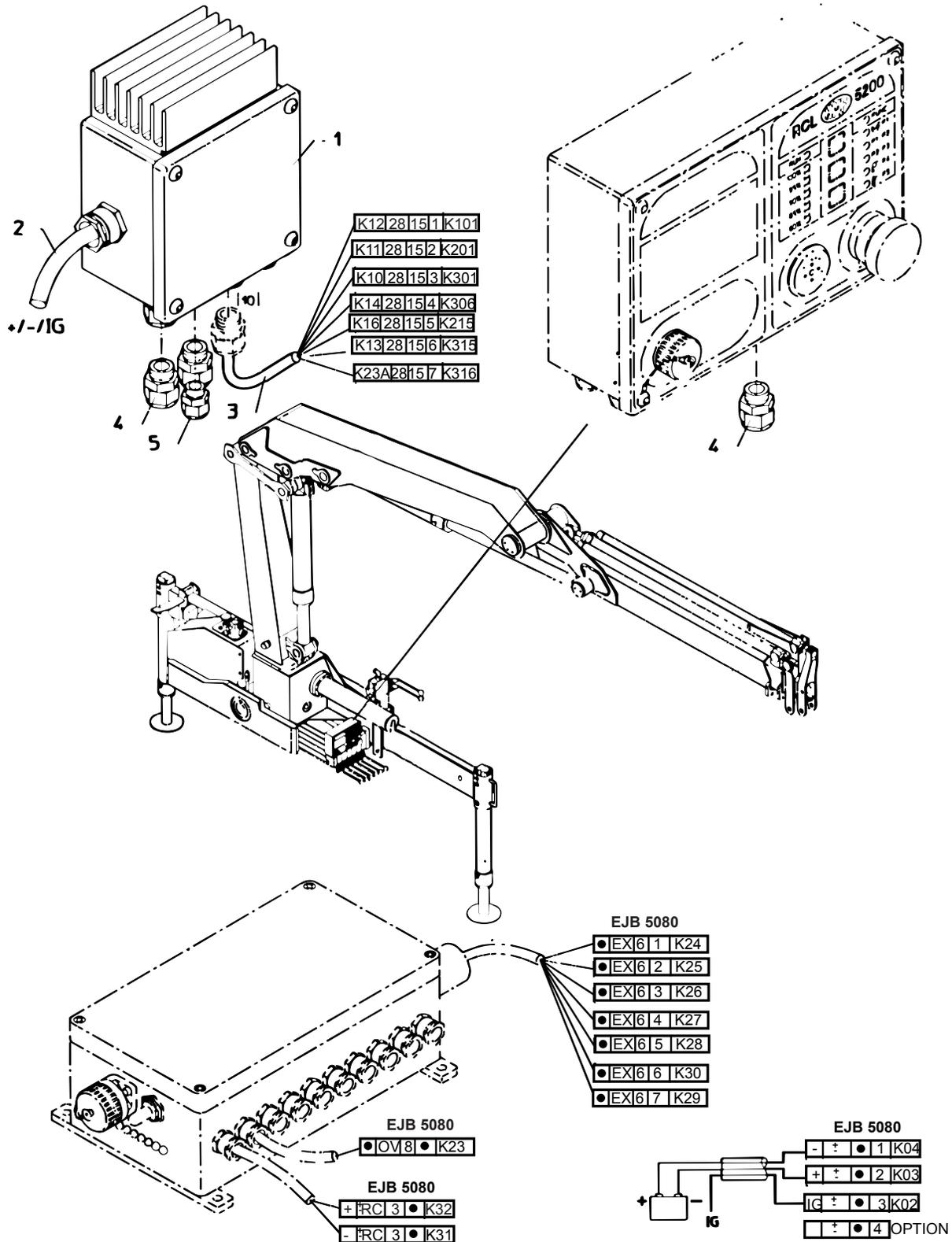
**RCL 5200, HS 2.2-4**

- |    |       |  |   |
|----|-------|--|---|
| 1. | 28230 | EXTERNAL STOP BUTTON                       | 1 |
| 2. | 28231 | EXTERNAL STOP BUTTON<br>(INCL. 4, 2.5M)    | 1 |
| 3. | 28261 | EXTERNAL STOP BUTTON<br>(INCL. 4, 3.5M)    | 1 |
| 4. | 28263 | CAN BUS CABLE                              | 1 |
| 5. | 28246 | LEAD-IN CABLE                              | 3 |
| 6. | 28210 | INDUCTIVE SENSOR                           | 2 |
| 7. | 28077 | PLUG, INDUCTIVE SENSOR<br>(INCL. LEDN. 5M) | 1 |



### RCL 5200, REMOTE CONTROL

- |    |       |                |   |
|----|-------|----------------|---|
| 1. | 28277 | POWER BOX      | 1 |
| 2. | 28278 | CABLE 4 X 2.4  | 1 |
| 3. | 28232 | CABLE 7 X 0.75 | 1 |
| 4. | 28246 | LEAD-IN CABLE  | 1 |
| 5. | 28244 | LEAD-IN CABLE  | 1 |



**IOWA MOLD TOOLING CO., INC.**

BOX 189, GARNER, IA 50438-0189

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TECHNICAL SUPPORT FAX: 641-923-2424

MANUAL PART NUMBER 99903386