

FACTORING LABOR UNITS

Labor Unit Make-up

1. Actual Installation	80%
2. Non-Productive	2.0%
3. Study Plans	2.0%
4. Material Procurement	2.0%
5. Receiving & Storage	2.0%
6. Motivation	1.0%
7. Layout	0.5%
8. Clean up	2.0%
9. Punch List	1.0%
10. Coffee Breaks	1.0%

Factor for Building Height

Add 1% to 2% per floor

Breakers in the Same Distribution Equipment

	DEDUCT	MULT
2 + 2	10%	.90
3 + 3	20%	.80
over 10	25%	.75

Fixtures in Same Concentrated Area

	DEDUCT	MULT
25 + 50	10%	.90
51 + 75	20%	.80
76 + 100	25%	.75
over 100	30%	.70

Bus Duct in One Area

	DEDUCT	MULT
100' + 200'	10%	.90
201' + 300'	15%	.85
301' + 500'	20%	.80
over 500'	25%	.75

Parallel Conduit Runs

	DEDUCT	MULT
2-wire	10%	.90
3-wire	15%	.85
4-wire	20%	.80
5-wire	25%	.75
over 5-wire	30%	.70

Conductors in a Raceway

	DEDUCT	MULT
2 + 3	20%	.80
4 + 5	30%	.70
6 + 7	40%	.60
over 7	50%	.50

Deduct from above Labor

	DEDUCT	MULT
over 100'	10%	.90
over 200'	15%	.85
over 300'	20%	.80

Devices, Boxes & Equipment in Same Concentrated Area

	DEDUCT	MULT
10 + 25	10%	.90
26 + 50	20%	.75
51 + 100	30%	.70
over 100	35%	.65

Fixtures, Conduit & Equipment Elevations

	ADD	MULT
10' + 10'	0%	1.00
10' + 20'	10%	1.10
21' + 25'	20%	1.20
26' + 30'	30%	1.30
31' + 35'	35%	1.35
36' + 40'	40%	1.40
over 40'	50%	1.50

DECIMAL EQUIVALENTS OF MINUTES

MINUTES	100THS	1000THS
0	.00	.000
1	.02	.017
2	.03	.033
3	.05	.050
4	.07	.067
5	.08	.083
6	.10	.100
7	.12	.117
8	.13	.133
9	.15	.150
10	.17	.167
11	.18	.183
12	.20	.200
13	.22	.217
14	.23	.233
15	.25	.250
16	.27	.267
17	.28	.283
18	.30	.300
19	.32	.317
20	.33	.333
21	.35	.350
22	.37	.367
23	.38	.383
24	.40	.400
25	.43	.417
26	.43	.433
27	.45	.450
28	.47	.467
29	.48	.483

MINUTES	100THS	1000THS
30	.50	.500
31	.52	.517
32	.53	.533
33	.55	.550
34	.57	.567
35	.58	.583
36	.60	.600
37	.62	.617
38	.63	.633
39	.65	.650
40	.67	.667
41	.68	.683
42	.70	.700
43	.72	.717
44	.73	.733
45	.75	.750
46	.77	.767
47	.78	.783
48	.80	.800
49	.82	.817
50	.83	.833
51	.85	.850
52	.87	.867
53	.88	.883
54	.90	.900
55	.92	.917
56	.93	.933
57	.95	.950
58	.97	.967
59	.98	.983

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Jamieson, 1902

Zell's Popular Encyclopedia, 1882

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time cold or damp weather car won t rev above 3 000 rpm dealer is now replacing both knock sensors and the wiring harness

very frustrating

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web jun 29 2013 diy remove anything in the way remove old knock sensor prep block surface with fine emery cloth spray area with brake cleaner or carb cleaner mount new sensor with new bolt finger tight using the proper size torque wrench without extensions torque to exactly 20nm spray area again with brake cleaner to clean any residual

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web mar 9 2023 but what does a knock sensor do and how do you know if you need to replace yours more importantly how much is it going to cost you we ll answer all those questions and more in this comprehensive guide let s take a look at the signs to look for first table of contents show symptoms of a bad knock sensor

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web perform a diagnostic check to discover any fault codes coming from the knock sensor and other related parts of the engine once they confirm that the knock sensor is faulty they will fit a replacement knock sensor once replaced the mechanic will start the engine and recheck for fault codes view more symptoms

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web feb 14 2013 it s 300 because if i remember right the knock sensor is behind the exhaust manifold so you have to pull all of the heat shielding out remove the exhaust manifold replace the gasket then replace the sensor

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web sep 29 2006 so i ve had a cel for months now started off giving codes of random misfiring and after replacing plugs wires and coilpack still got the same codes

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