HELPFUL INFORMATION

STUD SIZE CHART

STANDARD STUD SIZE		SCREW DIA. (")
•	#0	.060
•	#1	.073
•	#2	.086
•	#3	.099
•	#4	.112
•	#5	.125
•	#6	.138
•	#8	.164
•	#10	.190
•	#12	.216
•	#14	.242
•	1/4"	.250

STANDARD STUD SIZE		SCREW DIA. (")
•	5/16"	.312
•	3/8"	.375
•	7/16"	.437
•	1/2"	.500
•	5/8"	.625

STANDARD STUD SIZE		SCREW DIA. (")
•	3/4"	.750
•	7/8"	.875
•	1"	1.000

RECOMMENDED ATA COLOR CODING

White	• • •	Ground return to towing vehicle
Black	• • •	ICC required marker & clearance lamps
Yellow	• • •	Left-hand directional signal
Red	• • •	Stop Lamp
Green	• • •	Right-hand, directional signal
Brown	• • •	Tail lamp, three-bar marker lamps and clearance or marker lamps other than ICC required
Blue	• • •	Auxiliary circuits

VOLTS X AMPS = WATTS
WATTS ÷ AMPS = VOLTS
WATTS ÷ VOLTS = AMPS

RECOMMENDED WIRE GAUGE
FOR AUTOMOTIVE 6 & 12 VOLTS

Load in Amps		Length of Run in Feet					
6V	12V	3'	10'	15'	25'	50'	100'
0.5	1.0	18	18	18	18	18	18
1.0	2	18	18	18	18	18	16
1.5	3	18	18	18	18	18	14
2.5	5	18	18	18	18	14	12
5.0	10	18	18	16	16	12	10
7.5	15	18	18	14	12	10	8
10	20	18	16	14	10	10	6
15	30	18	14	10	10	6	4
20	40	18	12	10	8	6	2
25	50	16	12	10	8	6	2
50	100	12	10	6	4	2	0
75	150	10	8	4	2	1	00
100	200	10	6	4	2	0	4/0

HELPFUL INFORMATION

DECIMAL EQUIVALENTS

1/64 — .015625	17/64 — .265625	33/64 — .515625	49/64 — .765625
1/32 — .03125	9/32 — .28125	17/32 — .53125	25/32 — .78125
3/64 — .046875	19/64 — .296875	35/64 — .546875	51/64 — .796875
1/16 — .0625	5/16 — .3125	9/16 — .5625	13/16 — .8125
5/64 — .078125	21/64 — .328125	37/64 — .578125	53/64 — .828125
3/32 — .09375	11/32 — .34375	19/32 — .59375	27/32 — .84375
7/64 — .109375	23/64 — .359375	39/64 — .609375	55/64 — .859375
1/8 — .125	3/8 — .375	5/8 — .625	7/8 — .875
9/64 — .140625	25/64 — .390625	41/64 — .640625	57/64 — .890625
5/32 — .15625	13/32 — .40625	21/32 — .65625	29/32 — .90625
11/64 — .171875	27/64 — .421875	43/64 — .671875	59/64 — .921875
3/16 — .1875	7/16 — .4375	11/16 — .6875	15/16 — .9375
13/64 — .203125	29/64 — .453125	45/64 — .703125	61/64 — .953125
7/32 — .21875	15/32 — .46875	23/32 — .71875	31/32 — .96875
15/64 — .234375	31/64 — .484375	47/64 — .734375	63/64 — .984375
1/4 — .25	1/2 — .5	3/4 — .75	1 — 1.

WIRE GAUGE CONVERSION CHART

Move decimal point three places to right to read mils

AWG	Diameter Inches	CMA	AWG	Diameter Inches	CMA
4/0	.460	212,000	19	.036	1,290
3/0	.410	168,000	20	.032	1,020
2/0	.365	133,000	21	.0285	810
1/0	.325	106,000	22	.0253	642
1	.289	83,700	23	.0226	509
2	.258	66,400	24	.0201	404
3	.229	52,600	25	.0179	320
4	.204	41,700	26	.0159	254
5	.182	33,100	27	.0142	202
6	.162	26,300	28	.0126	160
7	.144	20,800	29	.0113	127
8	.128	16,500	30	.0100	101
9	.114	13,100	31	.0089	79.7
10	.102	10,400	32	.0080	63.2
11	.091	8,230	33	.0071	50.1
12	.081	6,530	34	.0063	39.8
13	.072	5,180	35	.0056	31.5
14	.064	4,110	36	.0050	25.0
15	.057	3,260	37	.0045	19.8
16	.051	2,580	38	.0040	15.7
17	.045	2,050	39	.0035	12.5
18	.040	1,620	40	.0031	9.9

WIRE AND CABLE CARRYING CAPACITIES

Cable Gauge	Light Circuit Cable (Continuous Duty)	Battery Cable (Intermittent Duty)	Welding Cable (Up to 50 feet)
18	3 Amperes	.....	.....
16	6 Amperes	.....	.....
14	15 Amperes	.....	.....
12	20 Amperes	.....	.....
10	25 Amperes	.....	.....
8	35 Amperes	.....	.....
6	50 Amperes	90 Amperes	60 Amperes
4	.....	125 Amperes	150 Amperes
2	.....	150 Amperes	200 Amperes
1	.....	200 Amperes	250 Amperes
1/0	.....	225 Amperes	300 Amperes
2/0	.....	275 Amperes	400 Amperes
3/0	.....	325 Amperes	.....
4/0	.....	.....	.....

Note: In intermittent duty, the battery cable will carry 200% of its rated ampere capacity.

To determine ampere loads in lamp circuits, add the candle power of all lamps in the circuit and divide by eight.