



## Programming The Remote Control

There are two ways to program the remote control; Automatic Code Search or Direct Entry

### Using Automatic Code Search

1. Turn on the component (TV) you want to control.
2. Press and hold the TV button until the LED on the remote control turns on, then release the key.
3. Point the remote at the component (TV), press and release the **UP (A)** button, then wait three seconds or until the LED stops flashing.

At this point the remote control is searching for the correct code to program. If, after three seconds, the component (TV) you want to control does not turn off, press and release **UP (A)** button again to tell the remote to search the next set of codes.

Continue pressing and releasing **UP (A)** button until the component turns off.

4. If the component you want to control *does* turn off:  
Press and release OK button, then the LED blinks three times.

### Using Direct Entry Method

1. Turn on the component (TV) you want to control.
2. Locate the enclosed Code List. Find your brand of the component you want to control.
3. Press and hold the TV button until the LED on the remote control turns on, then release the key.
4. Enter 3-digit code from the code list, then the LED blinks three times.
5. If you get no response, repeat these steps using the next code listed for your brand until the component responds to the remote control command.

### Changing Volume Lock

Locking the volume controls to a single device makes it easier to control volume, without having to guess whether the volume will change. If you lock the remote's volume controls to the TV, you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

If you want to lock the volume for the TV system;

1. Press and hold the STB component key until the LED on the remote control turns on.
2. Enter 3-digit code, **9 9 9**.
3. Press and release the STB component key, then the LED blinks three times, **Unlocking volume control;**

If you want to unlock the volume for the STB component;

1. Press and hold the STB button until the LED on the remote control turns on,
2. Enter 3-digit code, **9 9 9**.
3. Press and release the STB component key, then the LED blinks three times.

**Brand List for TV****[A]**

|                      |            |            |            |            |            |                          |            |            |            |            |            |
|----------------------|------------|------------|------------|------------|------------|--------------------------|------------|------------|------------|------------|------------|
| <b>ACER</b>          | <b>415</b> |            |            |            |            | <b>APOLLO</b>            | <b>381</b> |            |            |            |            |
| <b>A MARK</b>        | <b>222</b> |            |            |            |            | <b>AR</b>                | <b>433</b> |            |            |            |            |
| <b>A.R. SYSTEM</b>   | <b>208</b> | <b>286</b> | <b>409</b> |            |            | <b>ARCAM</b>             | <b>252</b> | <b>253</b> |            |            |            |
| <b>ABEX</b>          | <b>206</b> |            |            |            |            | <b>ARCHER</b>            | <b>222</b> |            |            |            |            |
| <b>ACCENT</b>        | <b>208</b> | <b>286</b> |            |            |            | <b>ARDEN</b>             | <b>208</b> | <b>286</b> | <b>387</b> |            |            |
| <b>ACCUPHASE</b>     | <b>208</b> |            |            |            |            | <b>ARISTONA</b>          | <b>208</b> | <b>286</b> |            |            |            |
| <b>ACTION</b>        | <b>313</b> | <b>325</b> |            |            |            | <b>ARTHUR-MARTIN</b>     | <b>410</b> |            |            |            |            |
| <b>ACURA</b>         | <b>224</b> |            |            |            |            | <b>ASA</b>               | <b>360</b> | <b>361</b> | <b>370</b> | <b>373</b> | <b>378</b> |
| <b>ADMIRAL</b>       | <b>230</b> | <b>244</b> | <b>270</b> | <b>275</b> | <b>309</b> |                          | <b>395</b> | <b>397</b> | <b>398</b> | <b>399</b> |            |
|                      | <b>323</b> | <b>397</b> | <b>410</b> |            |            | <b>ASBERG</b>            | <b>208</b> | <b>286</b> | <b>329</b> | <b>396</b> |            |
| <b>ADYSON</b>        | <b>206</b> | <b>253</b> |            |            |            | <b>ASORA</b>             | <b>224</b> |            |            |            |            |
| <b>AEA</b>           | <b>208</b> | <b>286</b> |            |            |            | <b>ASTRA</b>             | <b>208</b> | <b>286</b> |            |            |            |
| <b>AGASHI</b>        | <b>253</b> | <b>270</b> |            |            |            | <b>ASUKA</b>             | <b>253</b> | <b>254</b> | <b>270</b> | <b>274</b> |            |
| <b>AGB</b>           | <b>384</b> |            |            |            |            | <b>ATLANTIC</b>          | <b>208</b> | <b>286</b> | <b>308</b> |            |            |
| <b>AGEF</b>          | <b>397</b> |            |            |            |            | <b>ATORI</b>             | <b>224</b> |            |            |            |            |
| <b>AIKO</b>          | <b>208</b> | <b>218</b> | <b>219</b> | <b>224</b> | <b>253</b> | <b>AUCHAN</b>            | <b>410</b> |            |            |            |            |
|                      | <b>270</b> | <b>286</b> | <b>307</b> | <b>394</b> |            | <b>AU DI NAC</b>         | <b>289</b> |            |            |            |            |
| <b>AIM</b>           | <b>208</b> | <b>218</b> | <b>286</b> | <b>331</b> |            | <b>AUDIOSONIC</b>        | <b>208</b> | <b>224</b> | <b>253</b> | <b>270</b> | <b>286</b> |
| <b>AIWA</b>          | <b>348</b> | <b>349</b> | <b>393</b> |            |            |                          | <b>374</b> | <b>376</b> | <b>380</b> | <b>387</b> | <b>388</b> |
| <b>AKAI</b>          | <b>205</b> | <b>208</b> | <b>218</b> | <b>224</b> | <b>229</b> | <b>AUDIOTON</b>          | <b>253</b> | <b>270</b> | <b>374</b> | <b>376</b> | <b>380</b> |
|                      | <b>253</b> | <b>270</b> | <b>286</b> | <b>296</b> | <b>299</b> | <b>AUDIOVOX</b>          | <b>219</b> | <b>222</b> | <b>262</b> | <b>282</b> |            |
|                      | <b>307</b> | <b>309</b> | <b>325</b> | <b>346</b> | <b>377</b> | <b>AUMARK</b>            | <b>216</b> |            |            |            |            |
|                      | <b>382</b> | <b>384</b> | <b>385</b> | <b>386</b> | <b>387</b> | <b>AUSIND</b>            | <b>379</b> | <b>396</b> |            |            |            |
|                      | <b>388</b> | <b>394</b> | <b>410</b> |            |            | <b>AUTOVOX</b>           | <b>253</b> | <b>258</b> | <b>275</b> | <b>307</b> | <b>378</b> |
| <b>AKIBA</b>         | <b>208</b> | <b>274</b> | <b>286</b> | <b>389</b> |            |                          | <b>396</b> | <b>397</b> | <b>405</b> |            |            |
| <b>AKITO</b>         | <b>208</b> | <b>286</b> |            |            |            | <b>AWA</b>               | <b>208</b> | <b>224</b> | <b>253</b> | <b>270</b> | <b>286</b> |
| <b>AKURA</b>         | <b>208</b> | <b>224</b> | <b>254</b> | <b>270</b> | <b>274</b> |                          | <b>331</b> | <b>385</b> |            |            |            |
|                      | <b>286</b> | <b>331</b> | <b>400</b> | <b>407</b> |            | <b>AXXENT</b>            | <b>224</b> |            |            |            |            |
| <b>ALARON</b>        | <b>252</b> | <b>261</b> | <b>265</b> |            |            | <b>AXXON</b>             | <b>387</b> |            |            |            |            |
| <b>ALBA</b>          | <b>207</b> | <b>208</b> | <b>224</b> | <b>254</b> | <b>286</b> | <b>[B]</b>               |            |            |            |            |            |
|                      | <b>310</b> | <b>323</b> | <b>346</b> | <b>374</b> | <b>400</b> | <b>BAIRD</b>             | <b>218</b> | <b>253</b> | <b>296</b> |            |            |
|                      | <b>410</b> |            |            |            |            | <b>BANG&amp;OLUFSEN</b>  | <b>397</b> |            |            |            |            |
| <b>ALCYON</b>        | <b>396</b> |            |            |            |            | <b>BARCO</b>             | <b>284</b> | <b>410</b> |            |            |            |
| <b>ALKOS</b>         | <b>394</b> |            |            |            |            | <b>BASIC LINE</b>        | <b>208</b> | <b>224</b> | <b>253</b> | <b>254</b> | <b>274</b> |
| <b>ALLORGAN</b>      | <b>253</b> | <b>311</b> |            |            |            |                          | <b>286</b> | <b>389</b> | <b>400</b> | <b>410</b> |            |
| <b>ALLSTAR</b>       | <b>208</b> | <b>286</b> |            |            |            | <b>BASTIDE</b>           | <b>253</b> |            |            |            |            |
| <b>AMBASSADOR</b>    | <b>241</b> |            |            |            |            | <b>BAUR</b>              | <b>208</b> | <b>285</b> | <b>286</b> | <b>287</b> | <b>292</b> |
| <b>AMPLIVISION</b>   | <b>253</b> | <b>374</b> |            |            |            |                          | <b>298</b> | <b>307</b> | <b>309</b> | <b>405</b> |            |
| <b>AMSTRAD</b>       | <b>208</b> | <b>224</b> | <b>241</b> | <b>249</b> | <b>270</b> | <b>BAYSONIC</b>          | <b>262</b> |            |            |            |            |
|                      | <b>286</b> | <b>331</b> | <b>346</b> | <b>355</b> | <b>384</b> | <b>BAZIN</b>             | <b>253</b> |            |            |            |            |
|                      | <b>408</b> |            |            |            |            | <b>BEAUMARK</b>          | <b>229</b> | <b>260</b> |            |            |            |
| <b>ANAM</b>          | <b>208</b> | <b>223</b> | <b>224</b> | <b>262</b> | <b>286</b> | <b>BEC</b>               | <b>309</b> | <b>313</b> | <b>325</b> |            |            |
| <b>ANAM NATIONAL</b> | <b>208</b> | <b>214</b> | <b>286</b> |            |            | <b>BECRESE</b>           | <b>242</b> | <b>298</b> | <b>299</b> | <b>309</b> | <b>313</b> |
| <b>ANGLO</b>         | <b>224</b> | <b>270</b> |            |            |            | <b>BEKO</b>              | <b>208</b> | <b>286</b> | <b>374</b> | <b>376</b> | <b>380</b> |
| <b>ANITECH</b>       | <b>208</b> | <b>224</b> | <b>270</b> | <b>274</b> | <b>286</b> |                          | <b>385</b> | <b>387</b> | <b>388</b> | <b>394</b> |            |
|                      | <b>329</b> | <b>396</b> |            |            |            | <b>BELCOR</b>            | <b>229</b> |            |            |            |            |
| <b>ANSONIC</b>       | <b>208</b> | <b>224</b> | <b>286</b> | <b>312</b> | <b>329</b> | <b>BELL &amp; HOWELL</b> | <b>226</b> | <b>239</b> | <b>296</b> |            |            |
|                      | <b>374</b> | <b>380</b> | <b>398</b> | <b>400</b> | <b>410</b> | <b>BEON</b>              | <b>208</b> | <b>286</b> | <b>323</b> |            |            |
|                      | <b>413</b> |            |            |            |            | <b>BERTHEN</b>           | <b>400</b> |            |            |            |            |
| <b>AOC</b>           | <b>205</b> | <b>222</b> | <b>229</b> | <b>266</b> |            | <b>BEST</b>              | <b>374</b> |            |            |            |            |
|                      |            |            |            |            |            | <b>BESTAR</b>            | <b>208</b> | <b>286</b> | <b>374</b> |            |            |

|                      |     |     |     |     |     |                       |     |     |     |     |     |  |
|----------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|--|
| <b>BINATONE</b>      | 253 |     |     |     |     | <b>CINERAL</b>        | 219 | 282 |     |     |     |  |
| <b>BLACK DIAMOND</b> | 208 | 346 |     |     |     | <b>CITIZEN</b>        | 205 | 209 | 215 | 216 | 219 |  |
| <b>BLACK PANTHER</b> | 329 |     |     |     |     |                       | 242 | 267 | 273 |     |     |  |
| <b>BLACK STRIP</b>   | 394 |     |     |     |     | <b>CITY</b>           | 224 |     |     |     |     |  |
| <b>BLACKSTRIPE</b>   | 242 | 296 | 298 |     |     | <b>CLAIRTONE</b>      | 266 |     |     |     |     |  |
| <b>BLACKTRON</b>     | 274 |     |     |     |     | <b>CLARIVOX</b>       | 208 | 286 | 323 | 324 | 329 |  |
| <b>BLACKWAY</b>      | 274 |     |     |     |     |                       | 395 |     |     |     |     |  |
| <b>BLAUPUNKT</b>     | 250 | 251 | 269 | 389 |     | <b>CLATRONIC</b>      | 208 | 224 | 253 | 270 | 286 |  |
| <b>BLUE SKY</b>      | 208 | 254 | 274 | 286 | 346 |                       | 308 | 329 | 374 | 387 | 396 |  |
|                      | 387 | 388 | 389 | 400 |     | <b>CLAYTON</b>        | 346 |     |     |     |     |  |
| <b>BLUE STAR</b>     | 274 |     |     |     |     | <b>CME</b>            | 207 | 208 | 218 | 224 | 225 |  |
| <b>BOOTS</b>         | 224 | 253 |     |     |     |                       | 241 | 244 | 253 | 255 | 256 |  |
| <b>BOSCH-BAUER</b>   | 308 |     |     |     |     |                       | 258 | 275 | 278 | 285 |     |  |
| <b>BPL</b>           | 208 | 274 | 286 | 409 |     | <b>CMS HIGHTEC</b>    | 253 |     |     |     |     |  |
| <b>BRADFORD</b>      | 262 |     |     |     |     | <b>CONCERTO</b>       | 215 |     |     |     |     |  |
| <b>BRINKMANN</b>     | 208 | 286 | 323 | 376 | 400 | <b>CONCORDE</b>       | 224 |     |     |     |     |  |
| <b>BRIONVEGA</b>     | 208 | 286 | 397 | 408 |     | <b>CONDOR</b>         | 208 | 224 | 270 | 274 | 286 |  |
| <b>BRITANNIA</b>     | 252 | 253 |     |     |     |                       | 308 | 312 | 323 | 329 | 374 |  |
| <b>BROCKWOOD</b>     | 229 |     |     |     |     |                       | 410 |     |     |     |     |  |
| <b>BROKSONIC</b>     | 222 | 257 | 283 |     |     | <b>CONIC</b>          | 313 |     |     |     |     |  |
| <b>BROTHER</b>       | 270 |     |     |     |     | <b>CONRAD</b>         | 208 | 286 |     |     |     |  |
| <b>BRUNS</b>         | 328 | 380 | 397 |     |     | <b>CONTEC</b>         | 207 | 208 | 224 | 252 | 262 |  |
| <b>BSR</b>           | 303 | 307 | 311 | 410 |     |                       | 266 | 270 | 286 |     |     |  |
| <b>BTC</b>           | 254 |     |     |     |     | <b>CONTINENTAL</b>    | 351 |     |     |     |     |  |
| <b>BUSH</b>          | 207 | 208 | 224 | 253 | 254 | <b>COSMEL</b>         | 208 | 224 | 286 |     |     |  |
|                      | 270 | 274 | 286 | 296 | 303 | <b>CRAIG</b>          | 262 |     |     |     |     |  |
|                      | 307 | 309 | 310 | 346 | 387 | <b>CRIPTOVISION</b>   | 295 |     |     |     |     |  |
|                      | 400 | 401 | 405 | 410 |     | <b>CROSLEY</b>        | 213 | 313 | 362 | 396 | 397 |  |
| <b>[C]</b>           |     |     |     |     |     |                       | 410 |     |     |     |     |  |
| <b>CANDLE</b>        | 205 | 215 | 267 |     |     | <b>CROWN</b>          | 208 | 209 | 224 | 262 | 286 |  |
| <b>CAPEHART</b>      | 325 |     |     |     |     |                       | 296 | 323 | 329 | 374 | 376 |  |
| <b>CAPSONIC</b>      | 270 |     |     |     |     |                       | 385 | 387 | 388 | 396 | 404 |  |
| <b>CARAD</b>         | 208 | 286 | 400 |     |     |                       | 407 | 409 |     |     |     |  |
| <b>CARENA</b>        | 208 | 286 | 389 |     |     | <b>CS ELECTRONICS</b> | 252 |     |     |     |     |  |
| <b>CARNIVALE</b>     | 205 |     |     |     |     | <b>CTC</b>            | 308 |     |     |     |     |  |
| <b>CARREFOUR</b>     | 207 | 208 | 286 | 395 |     | <b>CURTIS MATHES</b>  | 205 | 209 | 210 | 211 | 213 |  |
| <b>CARVER</b>        | 213 | 248 |     |     |     |                       | 215 | 216 | 226 | 230 | 236 |  |
| <b>CASCADE</b>       | 208 | 224 | 286 |     |     |                       | 239 | 242 | 246 | 282 | 296 |  |
| <b>CASIO</b>         | 208 | 286 | 405 | 410 |     | <b>cxc</b>            | 262 |     |     |     |     |  |
| <b>CATHAY</b>        | 208 | 286 |     |     |     | <b>CYBERTRON</b>      | 254 |     |     |     |     |  |
| <b>CCE</b>           | 208 | 253 | 277 | 286 |     | <b>[D]</b>            |     |     |     |     |     |  |
| <b>CCI</b>           | 318 |     |     |     |     | <b>DAEWOO</b>         | 208 | 209 | 219 | 224 | 229 |  |
| <b>CENTRUM</b>       | 346 |     |     |     |     |                       | 253 | 282 | 286 | 333 |     |  |
| <b>CENTURION</b>     | 208 | 286 |     |     |     | <b>DAINICHI</b>       | 254 |     |     |     |     |  |
| <b>CENTURY</b>       | 397 |     |     |     |     | <b>DANSAI</b>         | 208 | 224 | 253 | 270 | 286 |  |
| <b>CGE</b>           | 291 | 323 | 374 | 396 | 410 |                       | 394 |     |     |     |     |  |
| <b>CIE</b>           | 333 |     |     |     |     | <b>DANSETTE</b>       | 331 |     |     |     |     |  |
| <b>CIMLINE</b>       | 224 | 310 |     |     |     | <b>DANTAX</b>         | 374 | 376 | 385 | 387 | 388 |  |

|                    |     |     |     |     |     |                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|
| <b>DATSURA</b>     | 296 | 409 |     |     |     | <b>ELIN</b>        | 208 | 224 | 286 | 307 | 398 |
| <b>DAWA</b>        | 208 | 286 |     |     |     |                    | 399 | 405 | 410 |     |     |
| <b>DAYTON</b>      | 224 |     |     |     |     | <b>ELITE</b>       | 208 | 242 | 254 | 286 | 296 |
| <b>DAYTRON</b>     | 208 | 209 | 229 | 286 | 298 |                    | 308 |     |     |     |     |
| <b>DE GRAAF</b>    | 296 | 410 |     |     |     | <b>ELMAN</b>       | 329 |     |     |     |     |
| <b>DECCA</b>       | 208 | 218 | 253 | 286 | 326 | <b>ELTA</b>        | 224 | 270 |     |     |     |
|                    | 384 |     |     |     |     | <b>EMERSON</b>     | 208 | 209 | 229 | 239 | 241 |
| <b>DEITRON</b>     | 208 | 286 |     |     |     |                    | 257 | 260 | 261 | 262 | 263 |
| <b>DENKO</b>       | 270 |     |     |     |     |                    | 264 | 265 | 266 | 271 | 273 |
| <b>DENON</b>       | 236 |     |     |     |     |                    | 274 | 283 | 286 | 307 | 374 |
| <b>DENVER</b>      | 208 | 286 | 385 |     |     |                    | 376 | 395 | 396 | 397 | 410 |
| <b>DESMET</b>      | 208 | 224 | 286 | 308 | 397 | <b>EMPEROR</b>     | 274 |     |     |     |     |
| <b>DIAMANT</b>     | 208 | 286 |     |     |     | <b>ENVISION</b>    | 205 |     |     |     |     |
| <b>DIAMOND</b>     | 270 | 401 |     |     |     | <b>ERRES</b>       | 208 | 286 |     |     |     |
| <b>DIGATRON</b>    | 208 | 286 |     |     |     | <b>ESC</b>         | 208 | 253 | 286 |     |     |
| <b>DIGILINE</b>    | 208 | 286 |     |     |     | <b>ESTELE</b>      | 410 |     |     |     |     |
| <b>DIGITOR</b>     | 208 | 286 |     |     |     | <b>ETRON</b>       | 208 | 224 | 286 | 410 |     |
| <b>DIGIVISION</b>  | 307 |     |     |     |     | <b>EURO-FEEL</b>   | 253 | 270 |     |     |     |
| <b>DIK</b>         | 208 | 286 |     |     |     | <b>EUROMANN</b>    | 208 | 253 | 270 | 286 | 374 |
| <b>DIXI</b>        | 208 | 223 | 224 | 253 | 286 | <b>EUROPA</b>      | 208 | 286 |     |     |     |
|                    | 328 | 397 |     |     |     | <b>EUROPHON</b>    | 208 | 253 | 286 | 329 | 384 |
| <b>DOMEOS</b>      | 400 |     |     |     |     |                    | 410 |     |     |     |     |
| <b>DORIC</b>       | 405 |     |     |     |     | <b>EXCEL</b>       | 208 | 286 |     |     |     |
| <b>DTS</b>         | 224 |     |     |     |     | <b>EXPERT</b>      | 410 |     |     |     |     |
| <b>DUAL</b>        | 208 | 253 | 286 | 307 | 405 | <b>EXQUISIT</b>    | 208 | 286 |     |     |     |
|                    | 410 |     |     |     |     | <b>[F]</b>         |     |     |     |     |     |
| <b>DUALTEC</b>     | 253 |     |     |     |     | <b>FAGOR</b>       | 208 | 286 |     |     |     |
| <b>DUMINT</b>      | 329 |     |     |     |     | <b>FAMILY LIFE</b> | 208 | 286 |     |     |     |
| <b>DUMONT</b>      | 218 | 227 | 229 | 253 | 329 | <b>FENNER</b>      | 224 |     |     |     |     |
|                    | 395 | 397 | 398 |     |     | <b>FERGUSON</b>    | 208 | 286 | 307 | 394 | 398 |
| <b>DUNAI</b>       | 410 |     |     |     |     | <b>FIDELITY</b>    | 208 | 252 | 270 | 286 | 287 |
| <b>DUX</b>         | 208 | 286 |     |     |     |                    | 294 | 307 | 331 | 410 |     |
| <b>D-VISION</b>    | 208 | 286 |     |     |     | <b>FILSAI</b>      | 253 |     |     |     |     |
| <b>DYNATECH</b>    | 253 |     |     |     |     | <b>FINLANDIA</b>   | 218 | 296 | 307 | 373 | 407 |
| <b>DYNATRON</b>    | 208 | 286 |     |     |     |                    | 410 |     |     |     |     |
| <b>[E]</b>         |     |     |     |     |     | <b>FINLUX</b>      | 208 | 218 | 253 | 261 | 286 |
| <b>EB TELECOM</b>  | 295 |     |     |     |     |                    | 303 | 312 | 323 | 326 | 329 |
| <b>ECTEC</b>       | 289 |     |     |     |     |                    | 360 | 361 | 362 | 363 | 370 |
| <b>ELBE</b>        | 208 | 253 | 286 | 307 | 312 |                    | 373 | 378 | 379 | 381 | 382 |
|                    | 319 | 374 | 384 | 408 | 410 |                    | 383 | 384 | 385 | 386 | 387 |
|                    | 413 |     |     |     |     |                    | 388 | 395 | 396 | 397 | 398 |
| <b>ELBE-SHARP</b>  | 384 |     |     |     |     |                    | 399 | 410 |     |     |     |
| <b>ELCIT</b>       | 329 | 384 | 397 | 410 |     | <b>FIRST LINE</b>  | 208 | 218 | 224 | 252 | 253 |
| <b>ELECTROBAND</b> | 266 |     |     |     |     |                    | 286 | 296 | 307 | 311 | 312 |
| <b>ELECTROHOME</b> | 288 | 296 | 313 |     |     |                    | 329 | 387 | 400 | 405 | 410 |
| <b>ELEKTA</b>      | 208 | 224 | 270 | 274 | 286 | <b>FISHER</b>      | 218 | 239 | 243 | 253 | 296 |
| <b>ELG</b>         | 208 | 286 |     |     |     |                    | 298 | 307 | 328 | 374 | 397 |
|                    |     |     |     |     |     |                    | 398 | 405 | 410 |     |     |



|                     |     |     |     |     |     |                      |     |     |     |     |     |
|---------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|
| <b>HITACHI</b>      | 287 | 292 | 298 | 299 | 300 | <b>INTERVISION</b>   | 208 | 224 | 253 | 270 | 274 |
|                     | 301 | 304 | 305 | 306 | 307 |                      | 286 | 329 | 354 | 374 | 376 |
|                     | 309 | 313 | 314 | 315 | 316 |                      | 389 | 410 |     |     |     |
|                     | 317 | 325 | 358 | 367 | 381 | <b>IRRADIO</b>       | 208 | 224 | 286 | 379 | 396 |
|                     | 382 | 383 | 384 | 399 | 405 |                      | 412 |     |     |     |     |
|                     | 406 | 407 | 410 | 411 |     | <b>ISUKAI</b>        | 208 | 286 | 254 | 274 | 389 |
| <b>HITSU</b>        | 224 | 389 |     |     |     | <b>ITC</b>           | 253 |     |     |     |     |
| <b>HMV</b>          | 397 |     |     |     |     | <b>ITS</b>           | 208 | 274 | 224 | 270 | 286 |
| <b>HORNYPHONE</b>   | 208 | 286 |     |     |     | <b>ITT</b>           | 244 | 261 | 296 | 298 | 307 |
| <b>HOSHAI</b>       | 389 |     |     |     |     |                      | 309 | 373 | 381 | 382 | 404 |
| <b>HUANYU</b>       | 252 |     |     |     |     |                      | 405 | 410 |     |     |     |
| <b>H.ELEKTRONIK</b> | 323 |     |     |     |     | <b>ITT-NOKIA</b>     | 261 | 296 | 307 | 368 | 373 |
| <b>HYGASHI</b>      | 253 |     |     |     |     |                      | 377 | 381 | 382 | 385 | 386 |
| <b>HYPER</b>        | 224 | 253 |     |     |     |                      | 404 | 405 | 410 |     |     |
| <b>HYPER VISION</b> | 307 | 334 |     |     |     | <b>ITV</b>           | 208 |     | 270 | 286 |     |
| <b>HYPSON</b>       | 208 | 253 | 270 | 274 | 286 | <b>[J]</b>           |     |     |     |     |     |
|                     | 387 | 388 | 389 |     |     | <b>JACSON</b>        | 326 |     |     |     |     |
| <b>HYUNDAI</b>      | 208 | 286 |     |     |     | <b>JBL</b>           | 213 |     |     |     |     |
| <b>[I]</b>          |     |     |     |     |     | <b>JCB</b>           | 337 |     |     |     |     |
| <b>IBERIA</b>       | 208 | 286 |     |     |     | <b>JEC</b>           | 242 |     | 394 |     |     |
| <b>ICE</b>          | 208 | 224 | 253 | 270 | 286 | <b>JMB</b>           | 208 |     | 286 |     |     |
| <b>ICES</b>         | 254 |     |     |     |     | <b>JOCEL</b>         | 403 |     |     |     |     |
| <b>ICT</b>          | 208 | 286 |     |     |     | <b>JUBILEE</b>       | 208 |     |     |     |     |
| <b>IMPERIAL</b>     | 208 | 286 | 291 | 302 | 307 | <b>JVC</b>           | 207 | 212 | 547 | 264 | 323 |
|                     | 309 | 312 | 323 | 374 | 396 |                      | 385 |     |     |     |     |
|                     | 405 | 410 |     |     |     | <b>[K]</b>           |     |     |     |     |     |
| <b>INDESIT</b>      | 258 |     |     |     |     | <b>KAISUI</b>        | 208 | 224 | 252 | 253 | 254 |
| <b>INDIANA</b>      | 208 | 286 |     |     |     |                      | 274 | 286 | 389 |     |     |
| <b>INFINITY</b>     | 213 |     |     |     |     | <b>KAMP</b>          | 252 |     |     |     |     |
| <b>INGEKEN</b>      | 339 |     |     |     |     | <b>KAPSCH</b>        | 244 | 309 | 305 | 307 | 398 |
| <b>INGELEN</b>      | 244 | 307 | 387 | 410 |     |                      | 410 |     |     |     |     |
| <b>INGERSOLL</b>    | 224 |     |     |     |     | <b>KARCHER</b>       | 208 | 286 | 270 | 274 | 374 |
| <b>INNO HIT</b>     | 208 | 218 | 224 | 253 | 274 |                      | 329 | 410 |     |     |     |
|                     | 286 | 325 | 329 | 384 | 396 | <b>KATHREIN</b>      | 208 |     | 286 | 287 |     |
|                     | 412 |     |     |     |     | <b>KAWASHO</b>       | 252 |     | 276 |     |     |
| <b>INNOVA</b>       | 208 |     |     |     |     | <b>KB ARISTOCRAT</b> | 410 |     |     |     |     |
| <b>INNOVATION</b>   | 208 | 286 |     |     |     | <b>KEC</b>           | 262 |     |     |     |     |
| <b>INTEQ</b>        | 227 |     |     |     |     | <b>KENDO</b>         | 208 | 286 | 287 | 309 | 310 |
| <b>INTERACTIVE</b>  | 208 | 286 | 287 | 307 | 374 |                      | 312 | 329 | 374 | 380 | 408 |
|                     | 397 | 410 |     |     |     |                      | 410 |     |     |     |     |
| <b>INTERBUY</b>     | 208 | 224 | 270 | 286 | 287 | <b>KENNEDY</b>       | 362 |     | 410 |     |     |
| <b>INTERFUNK</b>    | 208 | 244 | 286 | 287 | 305 | <b>KENWOOD</b>       | 205 |     | 229 | 399 |     |
|                     | 307 | 309 | 368 | 374 | 377 | <b>KINGSLEY</b>      | 252 |     |     |     |     |
|                     | 397 | 405 | 410 |     |     | <b>KITON</b>         | 208 |     | 286 |     |     |
| <b>INTERNAL</b>     | 208 | 286 |     |     |     | <b>KLH</b>           | 325 |     |     |     |     |
|                     |     |     |     |     |     | <b>KINGSLEY</b>      | 252 |     |     |     |     |
|                     |     |     |     |     |     | <b>KITON</b>         | 208 | 286 |     |     |     |
|                     |     |     |     |     |     | <b>KLH</b>           | 325 |     |     |     |     |



|                      |     |     |     |     |     |
|----------------------|-----|-----|-----|-----|-----|
| <b>MEMPHIS</b>       | 218 | 224 | 325 |     |     |
| <b>MERCURY</b>       | 208 | 224 | 286 |     |     |
| <b>METZ</b>          | 208 | 286 | 346 | 397 | 400 |
| <b>MGA</b>           | 205 | 208 | 229 | 233 | 237 |
|                      | 260 | 286 | 398 |     |     |
| <b>MICROMAXX</b>     | 208 | 286 | 346 | 400 |     |
| <b>MIDLAND</b>       | 206 | 209 | 210 | 211 | 227 |
|                      | 235 |     |     |     |     |
| <b>MINATO</b>        | 208 | 286 |     |     |     |
| <b>MINERVA</b>       | 258 | 384 | 395 | 396 |     |
| <b>MINOKA</b>        | 208 | 286 | 331 | 407 |     |
| <b>MINUTZ</b>        | 201 |     |     |     |     |
| <b>MITSUBISHI</b>    | 207 | 208 | 229 | 230 | 233 |
|                      | 237 | 258 | 260 | 286 | 287 |
|                      | 296 | 397 |     |     |     |
| <b>MITSURI</b>       | 410 |     |     |     |     |
| <b>GENERAL</b>       |     |     |     |     |     |
| <b>MIVAR</b>         | 252 | 253 | 370 | 374 | 384 |
|                      | 396 | 412 | 413 |     |     |
| <b>MONACO</b>        | 224 |     |     |     |     |
| <b>MORGAN'S</b>      | 208 | 286 |     |     |     |
| <b>MOTION</b>        | 396 |     |     |     |     |
| <b>MOTOROLA</b>      | 214 | 230 |     |     |     |
| <b>MTC</b>           | 205 | 215 | 216 | 229 | 252 |
|                      | 266 | 287 | 307 | 374 | 405 |
|                      | 410 |     |     |     |     |
| <b>MULTISTANDART</b> | 329 |     |     |     |     |
| <b>MULTITEC</b>      | 208 | 286 | 346 | 376 | 400 |
| <b>MULTITECH</b>     | 208 | 224 | 252 | 253 | 262 |
|                      | 270 | 286 | 309 | 329 | 374 |
|                      | 376 | 396 | 405 |     |     |
| <b>MURPHY</b>        | 218 | 398 | 410 |     |     |
| <b>MUSIKLAND</b>     | 208 | 286 |     |     |     |
| <b>MULTIMEDIA</b>    | 332 |     |     |     |     |
| <b>MYRYAD</b>        | 208 | 286 |     |     |     |
| <b>[N]</b>           |     |     |     |     |     |
| <b>NAD</b>           | 229 | 242 | 246 | 260 | 307 |
|                      | 410 |     |     |     |     |
| <b>NAIKO</b>         | 208 | 286 | 385 |     |     |
| <b>NAKIMURA</b>      | 208 | 286 |     |     |     |
| <b>NAONIS</b>        | 309 | 410 |     |     |     |
| <b>NATIONAL</b>      | 258 |     |     |     |     |
| <b>NEC</b>           | 205 | 207 | 208 | 215 | 224 |
|                      | 229 | 248 | 253 | 286 | 389 |
| <b>NECKERMANN</b>    | 208 | 253 | 269 | 285 | 286 |
|                      | 287 | 292 | 309 | 312 | 323 |
|                      | 374 | 397 | 405 | 410 |     |
| <b>NEI</b>           | 208 | 286 | 410 |     |     |

|                   |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|
| <b>NESCO</b>      | 261 |     |     |     |     |
| <b>NETS AT</b>    | 208 | 286 |     |     |     |
| <b>NEWFUNK</b>    | 208 | 224 | 274 | 286 | 387 |
| <b>NEW TECH</b>   | 208 | 224 | 253 | 286 |     |
| <b>NIKKAI</b>     | 206 | 208 | 218 | 224 | 242 |
|                   | 252 | 253 | 254 | 270 | 286 |
|                   | 325 | 394 |     |     |     |
| <b>NIKKO</b>      | 205 | 210 | 219 | 227 | 229 |
|                   | 239 | 242 | 260 |     |     |
| <b>NISATO</b>     | 289 |     |     |     |     |
| <b>NOBLEX</b>     | 281 |     |     |     |     |
| <b>NOBLIKO</b>    | 329 | 379 | 395 | 396 |     |
| <b>NOKIA</b>      | 261 | 270 | 296 | 298 | 304 |
|                   | 305 | 306 | 307 | 309 | 353 |
|                   | 373 | 381 | 382 | 383 | 385 |
|                   | 386 | 404 | 405 | 407 | 410 |
| <b>NORDIC</b>     | 253 |     |     |     |     |
| <b>NORDMENDE</b>  | 208 | 286 | 387 | 410 |     |
| <b>NORFOLK</b>    | 410 |     |     |     |     |
| <b>NORMEREL</b>   | 208 | 286 |     |     |     |
| <b>NOSHI</b>      | 228 |     |     |     |     |
| <b>NOVATRONIC</b> | 208 | 286 | 399 |     |     |
| <b>NTC</b>        | 219 |     |     |     |     |
| <b>NÜRNBERG</b>   | 307 | 410 |     |     |     |
| <b>[O]</b>        |     |     |     |     |     |
| <b>OCEANIC</b>    | 244 | 296 | 307 | 309 | 311 |
|                   | 377 | 381 | 382 | 410 |     |
| <b>ODEON</b>      | 270 |     |     |     |     |
| <b>OKANO</b>      | 208 | 218 | 224 | 270 | 286 |
|                   | 374 |     |     |     |     |
| <b>OMEGA</b>      | 270 |     |     |     |     |
| <b>ONWA</b>       | 262 | 329 |     |     |     |
| <b>OPERA</b>      | 208 | 286 |     |     |     |
| <b>OPTIMUS</b>    | 230 | 239 | 245 | 246 | 279 |
| <b>ORBIT</b>      | 208 | 286 |     |     |     |
| <b>ORION</b>      | 208 | 224 | 241 | 257 | 261 |
|                   | 270 | 283 | 286 | 307 | 308 |
|                   | 310 | 311 | 329 | 331 | 384 |
|                   | 387 |     |     |     |     |
| <b>ORLINE</b>     | 208 | 286 |     |     |     |
| <b>ORMOND</b>     | 208 | 346 | 400 |     |     |
| <b>ORSOWE</b>     | 384 |     |     |     |     |
| <b>OSAKI</b>      | 206 | 208 | 218 | 253 | 254 |
|                   | 270 | 286 | 325 | 331 |     |
| <b>OSIO</b>       | 208 | 286 | 412 |     |     |
| <b>OSO</b>        | 254 |     |     |     |     |
| <b>OSUME</b>      | 206 | 208 | 218 | 286 | 325 |



|                    |     |     |     |     |     |                      |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|
| <b>RADIX</b>       | 298 |     |     |     |     | <b>SAMSUNG</b>       | 205 | 206 |     | 209 | 215 |
| <b>RANK</b>        | 395 |     |     |     |     |                      | 216 | 218 | 224 | 229 | 253 |
| <b>RANK ARENA</b>  | 207 | 395 | 416 | 417 | 418 |                      | 260 | 270 | 277 | 286 | 287 |
|                    | 419 |     |     |     |     |                      | 296 | 325 | 337 | 374 | 410 |
| <b>RBM</b>         | 395 |     |     |     |     |                      | 412 |     |     |     |     |
| <b>RCA</b>         | 210 | 211 | 228 | 229 | 230 | <b>SAMSUX</b>        | 209 |     |     |     |     |
|                    | 235 |     |     |     |     | <b>SANDRA</b>        | 252 | 253 |     |     |     |
| <b>REALISTIC</b>   | 205 | 206 | 209 | 215 | 229 | <b>SANSEI</b>        | 282 |     |     |     |     |
|                    | 239 | 245 | 260 | 262 | 296 | <b>SANSUI</b>        | 208 | 283 | 286 | 389 | 402 |
| <b>RECOR</b>       | 208 | 286 |     |     |     | <b>SANTON</b>        | 224 |     |     |     |     |
| <b>RECTILIGNE</b>  | 208 | 286 |     |     |     | <b>SANYO</b>         | 207 | 208 | 218 | 223 | 224 |
| <b>REDIFFUSION</b> | 307 | 373 |     |     |     |                      | 225 | 239 | 243 | 253 | 264 |
| <b>REDSTAR</b>     | 208 | 286 |     |     |     |                      | 286 | 296 | 297 | 298 | 325 |
| <b>REFLEX</b>      | 208 | 286 | 346 | 400 |     |                      | 326 | 361 | 374 | 376 | 398 |
| <b>REKORD</b>      | 359 |     |     |     |     |                      | 404 | 409 | 410 | 413 | 420 |
| <b>REOC</b>        | 387 |     |     |     |     |                      | 424 | 425 | 426 | 432 |     |
| <b>REVOX</b>       | 208 | 286 | 374 |     |     | <b>SAVE</b>          | 208 | 286 |     |     |     |
| <b>REX</b>         | 244 | 270 | 275 | 309 | 312 | <b>SBR</b>           | 208 | 286 |     |     |     |
|                    | 410 |     |     |     |     | <b>SCHAUB LORENZ</b> | 307 | 309 | 376 | 385 | 387 |
| <b>RFT</b>         | 218 | 270 | 286 | 328 | 374 |                      | 405 |     |     |     |     |
|                    | 380 | 397 | 413 |     |     | <b>SCHNEIDER</b>     | 208 | 253 | 254 | 270 | 286 |
| <b>RHAPSODY</b>    | 252 | 265 | 266 |     |     |                      | 307 | 336 | 346 | 353 | 357 |
| <b>RICOH</b>       | 208 | 286 |     |     |     |                      | 362 | 387 | 400 | 405 | 410 |
| <b>ROADSTAR</b>    | 208 | 224 | 254 | 270 | 274 | <b>SCIMITSU</b>      | 229 |     |     |     |     |
|                    | 286 | 323 | 346 |     |     | <b>SCOTCH</b>        | 260 |     |     |     |     |
| <b>ROBOTRON</b>    | 397 |     |     |     |     | <b>SCOTLAND</b>      | 410 |     |     |     |     |
| <b>RODEX</b>       | 208 | 286 |     |     |     | <b>SCOTT</b>         | 229 | 257 | 260 | 261 | 262 |
| <b>ROWA</b>        | 253 | 270 | 401 | 403 |     | <b>SEARS</b>         | 210 | 213 | 215 | 229 | 239 |
| <b>ROYAL LUX</b>   | 331 | 374 |     |     |     |                      | 242 | 243 | 249 | 260 | 261 |
| <b>RTF</b>         | 208 |     |     |     |     |                      | 296 |     |     |     |     |
| <b>RUKOPIR</b>     | 208 | 286 |     |     |     | <b>SEG</b>           | 207 | 208 | 224 | 253 | 270 |
| <b>RUNCO</b>       | 205 | 227 |     |     |     |                      | 286 | 328 | 329 | 346 | 396 |
| <b>[S]</b>         |     |     |     |     |     |                      | 400 | 405 | 408 | 410 |     |
| <b>SABA</b>        | 244 | 305 | 307 | 309 | 397 | <b>SEI</b>           | 208 | 241 | 286 | 329 | 384 |
|                    | 384 | 410 |     |     |     |                      | 397 | 405 | 410 |     |     |
| <b>SAGEM</b>       | 274 | 339 | 389 |     |     | <b>SEI-SINUDYNE</b>  | 208 | 286 | 307 | 309 | 310 |
| <b>SAISHO</b>      | 224 | 225 | 241 | 253 | 270 |                      | 311 | 329 | 384 | 397 |     |
|                    | 310 | 384 | 410 |     |     | <b>SELECO</b>        | 244 | 270 | 275 | 290 | 309 |
| <b>SAIVOD</b>      | 208 | 286 | 410 |     |     |                      | 312 | 321 | 322 | 373 | 408 |
| <b>SAKIO</b>       | 270 |     |     |     |     |                      | 410 |     |     |     |     |
| <b>SALORA</b>      | 244 | 292 | 296 | 304 | 307 | <b>SEMIVOX</b>       | 262 |     |     |     |     |
|                    | 309 | 325 | 364 | 365 | 366 | <b>SEMP</b>          | 242 |     |     |     |     |
|                    | 367 | 368 | 369 | 377 | 384 | <b>SENCORA</b>       | 224 |     |     |     |     |
|                    | 391 | 392 | 404 | 405 | 406 | <b>SENTRA</b>        | 224 | 242 | 394 | 405 |     |
|                    | 407 | 409 | 410 | 411 | 412 | <b>SERINO</b>        | 389 |     |     |     |     |
| <b>SAMBERS</b>     | 329 | 379 | 384 | 396 |     | <b>SHARP</b>         | 207 | 209 | 230 | 245 | 384 |
| <b>SAMPO</b>       | 205 | 206 | 209 |     |     | <b>SHINTOSHI</b>     | 208 | 286 |     |     |     |
|                    |     |     |     |     |     | <b>SHIVAKI</b>       | 208 | 286 |     |     |     |
|                    |     |     |     |     |     | <b>SHOGUN</b>        | 229 |     |     |     |     |
|                    |     |     |     |     |     | <b>SHORAI</b>        | 261 | 311 |     |     |     |





**[W]**

|                     |            |            |            |            |            |
|---------------------|------------|------------|------------|------------|------------|
| <b>WALTHAM</b>      | <b>208</b> | <b>253</b> | <b>286</b> | <b>304</b> | <b>309</b> |
|                     | <b>323</b> | <b>400</b> | <b>406</b> |            |            |
| <b>WARDS</b>        | <b>200</b> | <b>201</b> | <b>203</b> | <b>204</b> | <b>205</b> |
|                     | <b>213</b> | <b>215</b> | <b>226</b> | <b>229</b> | <b>235</b> |
|                     | <b>242</b> | <b>245</b> | <b>260</b> | <b>261</b> | <b>268</b> |
| <b>WATSON</b>       | <b>208</b> | <b>224</b> | <b>286</b> | <b>308</b> | <b>346</b> |
|                     | <b>400</b> | <b>410</b> |            |            |            |
| <b>WATT RADIO</b>   | <b>307</b> | <b>329</b> | <b>362</b> | <b>405</b> | <b>410</b> |
| <b>WEGA</b>         | <b>207</b> | <b>208</b> | <b>286</b> | <b>397</b> |            |
| <b>WEGAVOX</b>      | <b>208</b> | <b>224</b> | <b>286</b> |            |            |
| <b>WELTBlick</b>    | <b>208</b> | <b>253</b> | <b>286</b> |            |            |
| <b>WESTON</b>       | <b>208</b> | <b>286</b> |            |            |            |
| <b>WHARFEDALE</b>   | <b>208</b> | <b>286</b> |            |            |            |
| <b>WESTINGHOUSE</b> | <b>208</b> | <b>252</b> | <b>286</b> | <b>296</b> | <b>308</b> |
| <b>WINDSOR</b>      | <b>400</b> |            |            |            |            |
| <b>WINDSTAR</b>     | <b>274</b> |            |            |            |            |
| <b>WINDY SAM</b>    | <b>208</b> |            |            |            |            |
| <b>WINTEL</b>       | <b>387</b> |            |            |            |            |
| <b>WORLD-TECH</b>   | <b>333</b> |            |            |            |            |

**[X]**

**XRYPTON** 208 286

**[Y]**

|                |            |            |            |            |            |
|----------------|------------|------------|------------|------------|------------|
| <b>YAMAHA</b>  | <b>205</b> | <b>229</b> |            |            |            |
| <b>YAMISHI</b> | <b>208</b> | <b>253</b> | <b>274</b> | <b>286</b> | <b>389</b> |
| <b>YOKAN</b>   | <b>208</b> | <b>286</b> |            |            |            |
| <b>YOKO</b>    | <b>208</b> | <b>224</b> | <b>253</b> | <b>270</b> | <b>286</b> |
|                | <b>333</b> | <b>374</b> | <b>404</b> | <b>409</b> |            |
| <b>YORK</b>    | <b>298</b> |            |            |            |            |

**[Z]**

|                |            |            |            |  |  |
|----------------|------------|------------|------------|--|--|
| <b>ZANUSSI</b> | <b>253</b> | <b>275</b> | <b>309</b> |  |  |
| <b>ZENITH</b>  | <b>219</b> | <b>226</b> | <b>227</b> |  |  |
| <b>ZENOR</b>   | <b>404</b> |            |            |  |  |
| <b>ZON DA</b>  | <b>222</b> |            |            |  |  |